



# केंद्रीय भंडारण निगम

### (भारत सरकार का एक उपक्रम)

# CENTRAL WAREHOUSING CORPORATION

(A Govt. of India Undertaking)

(E- Tendering Mode Only)

(E NIT\_CO/Engg -05/22-23)

FOR

Name of Work: Construction of 12528 MTC Godown along with Internal Roads, Drains and electrical Installation at CW, Gondia-II (Mah.).

### **CENTRAL WAREHOUSING CORPORATION,**

4/1, Siri Institutional Area, August Kranti Marg, Hauz Khas, New Delhi-110016, Ph. No. & Fax No. (011) 49857894 Email Id: engg.cwhc@cewacor.nic.in

### Abbreviation of the words used in Tender document

NIT	=	Notice Inviting Tender
CWC		Central Warehousing Corporation
CPWD		Central Public Works Department
MES		Military Engineering Services
PWD		Public Works Department
PSU	=	
		Public Sector Undertaking
EMD	=	Earnest Money Deposit
CPP	=	Central Procurement Portal
PF	=	Provident Fund
SD	=	Security Deposit
LD	=	Liquidated damage
GCC	=	General Condition of Contract
BIS	=	Bureau of Indian Standard
IRC	=	Indian Roads Congress
CTE	=	Chief Technical Examiner
MORTH	=	Ministry of Road Transport & Highway
DSR	=	Delhi Schedule of Rates
SOR	=	Schedules of Rates
PERT	=	Programme Evaluation Review Technique.
MD	=	Managing Director
ICD	=	Inland Container Depot
OCY	=	Open Container Yard
BG	=	Bank Guarantee
FD/FDR	=	Fixed Deposit Receipt
IPC	=	Indian Penal Code
PC	=	Prevention of Corruption
ЕОТ	=	Extension of Time
OPC	=	Ordinary Portland Cement
PPC	=	Pozzolana Portland Cement
RMC	=	Ready Mixed Concrete
IIT	=	Indian Institute of Technology
T&P	=	Tools & Plants
CAR Policy	=	Contractor's all Risk Policy
WC Policy	=	Workmen Compensation Policy
ESI	=	Employees State Insurance
PQ	=	Pre-Qualifying
GST	=	Goods and Services Tax
CGST	=	Central Goods and Services tax
SGST		State Goods and Services tax/
IGST	=	Integrated Goods and Services tax
UGST	=	Union Territory Goods and Services tax
LAR	=	Last Approved Rates
PQC		Pavement Quality Concrete
WBM	=	Water Bound Macadam
WMM DDM	=	Wet Mix Macadam
DBM	=	Dense Bituminous Macadam
DPC	=	Damp Proof Course
CC	=	Cement Concrete
RCC	=	Reinforced Cement Concrete
DLC	=	Dry Lean Concrete
MT	=	Metric Tonne

I	Ν	D	EX	

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# **CHAPTER-I**





### **CENTRAL WAREHOUSING CORPORATION**

(A Govt. of India Undertaking)

### Corporate Office, 4/1, Siri Institutional Area, August Kranti Marg, Hauz Khas, New Delhi Engineering Division:PH-011-49857894, E-mail; engg.cwhc@cewacor.nic.in

### NO. CWC/CO/PN/2022-23

### PRESS NOTICE

### CWC invites on-line tenders from the contractors for the following works:

SL	Name of Work	Estimated Cost (Rs. Lakh)	Last date of on-line submission
1	Construction of 1 Conventional Godown & 1 No of PEB Godown (for Industrial Storage) with internal roads, drains, electrification works, etc. at CW, Waluj (Mah.) (E NIT_CO/Engg -04/21-22)	Rs.1079.35	19.05.2022
2	Construction of 12528 MTC Godown along with Internal Roads, Drains and electrical Installation at CW, Gondia-II (Mah.) (E NIT_CO/Engg -05/21-22)	Rs. 789.09	19.05.2022

Detailed Tender Notice along with Conditions of Contract and Notice Inviting E-Tender may be seen and downloaded from the CWC's website www.cewacor.nic.in or e-tender website <u>www.cwceprocure.com</u> or CPP Portal http://eprocure.gov.in/ epublish/app.

Further Corrigendum/Addendum to this Tender, if any, will be published on above websites only Press advertisement in Newspapers shall not be issued for the same.

### CHIEF ENGINEER

### **CENTRAL WAREHOUSING CORPORATION**

(A Govt. of India Undertaking)

Corporate Office, 4/1, Siri Institutional Area, August Kranti Marg, Hauz Khas, New Delhi

NO. CWC/CO/NIT/22-23/05

Dated: 20.04.2022

### **NOTICE INVITING TENDER**

(E NIT\_CO/Engg -05/21-22)

(E-tendering Mode)

On-line percentage rate E-tender in two bid system is invited for the below mentioned works from Contractors of appropriate class of CPWD / Railways / MES / State PWD / other Government Organization / Public Sector Undertakings & their Subsidiaries or having worked / working with aforesaid Government Departments / Agencies –

Tender No.	CWC/CO/NIT/22-23/05	
Name of Work	Construction of 12528 MTC Godown along with Internal Roads, Drains and electrical Installation at CW, Gondia-II (Mah.)	
Estimated Cost put to Tender (Rs.)	Rs. 789.09 lakhs	
Earnest Money (Rs.)	Rs.15.79 lakh	
Cost of Tender Document (Non-refundable)	Rs. 1770/- <i>(incl. GST)</i>	
Time Allowed for Completion of Work	09 Months	
Tendering Processing Fee (Non-refundable)	Rs. 885/-	
Last Date & Time of submission of cost of tender & e-tender processing fee and downloading of tender documents (Tech. & Price Bid)	18.05.2022 upto 15:00 hrs.	
Last Date & Time of submission of Tender & EMD	19.05.2022 upto 15:00 hrs.	
Date & Time of opening of Technical Bid	19.05.2022 upto 15:30 hrs.	
Date & Time of opening of Financial Bid	Date of opening of Financial Bid will be intimated separately for technically qualified Tenderers	

Tender documents including Contract Conditions and Schedule of Work may be downloaded by the intending contractors, who wish to participate, from CWC website <u>www.cewacor.nic.in or</u> e-tender website <u>www.cwceprocure.com or</u> CPP Portal <u>http://eprocure.gov.in/epublish/app upto 15.00</u> hrs. of 18.05.2022

### **IMPORTANT INSTRUCTIONS**

### **1. ELIGIBILITY CRITERIA:**

Contractor who fulfils the following requirements shall only be eligible to quote the rates.

### Mandatory Documents -

- (i) EMD, Cost of Tender & Tender Processing Fees: As per Annexure-A
- (ii) Experience Certificate: As per Annexure-A
- (iii) **Turnover:** As per Annexure-A
- (iv) Affidavit: As per Annexure-A

### Other Documents -

### (v) Integrity Pact:

Tenderer will have to sign the Integrity Pact as per proforma at **ANNEXURE-V** for contracts having estimated value of Rs. 2 (two) crore or more and duly signed copy has to be submitted with the tender.

### (vi) Net Worth:

Tenderer should submit with the tender the Positive Net Worth Certificate, duly certified by a practising Chartered Accountant as per **ANNEXURE I**, based on the accounts for the latest financial year, i.e., Profit & Loss Account and Balance Sheet.

### (vii) GST Registration:

Contractor must have valid GST Registration Certificate from the concerned authority (as applicable) and copy to be enclosed with the tender.

### (viii) PAN Card :

Tenderer must enclose copy of PAN Card alongwith the tender.

### (ix) **PF Registration** :

Tenderers must have valid PF Registration Certificate from the concerned authority and copy to be enclosed with the tender.

### (x) Organisation Details :

In case the Tenderer is a Proprietorship Firm, they will submit an affidavit as per **ANNEXURE II.** 

In case the Tenderer is a Partnership Firm, a certified copy of the partnership deed shall be submitted by the Tenderer.

In case the Tenderer is a Company (whether Private or Public), a certified copy of Certificate of Incorporation together with Memorandum and Article of Association shall be submitted.

Certificate of Registration with Registrars of Company (ROC) in case of Ltd. / Pvt. Ltd. Company / PSU, if required shall be submitted by the Tenderer.

In other cases, certified copy of Certificate of Incorporation shall be submitted by the Tenderer. See Annexure-A

(xi) Tenderer shall submit a Power of Attorney in favour of signatory(ies) duly attested by the Notary as per **ANNEXURE III.** {*This format is for guidance only and deviation in the wording can be accepted.*}

### (xii) Declaration of near relative

Tenderer shall submit a declaration about their near relative in compliance of clause 36 of General condition of contract as per **ANNEXURE-VI** 

- (xiii) A Bar Chart / PERT Network indicating various milestones and date of completion vis-a-vis deployment of resources to be enclosed with the tender.
- (xiv) Declaration to be given by the bidder for works in Hand (in progress) on letter head of firm (ANNEXURE- IX).

### **IMPORTANT NOTES:**

- (xv) Participation of Joint Venture (JV) Firms will not be applicable in the tenders of CWC.
- (xvi) Experience gained by executing work on back-to-back contract basis is acceptable. Back-to-back Contract means work awarded by owner to first agency and then by the first agency to the second agency. To get the weightage of experience, following conditions must be fulfilled.

(a) Work should be actually executed by the second agency with due concurrence of the owner as per agreement. It should be backed by valid agreement and experience certificate.

(b)Payments received by second agency should be reflected in income tax statements (form 26AS).

(c) Owner of the project and first agency should jointly certify the experience certificate.

- (xvii) Experience of a petty contractor, labour rate contractor, work shall not be accepted. Experience of works on foreign soil shall not be accepted.
- (xviii) Experience of work where delay is compensated by bidder with levy of LD shall not be accepted.
- (**xix**) Where the tenderer is not under statutory obligation to get his Accounts audited, he can upload a certificate of practising Chartered Accountant certifying his Annual Turnover and Profit after Tax for preceding three financial years.

### 2. OTHER IMPORTANT GUIDELINES:

(xx) Technical Bids would be opened at 3.30 pm on 19.05.2022 and the same would be examined by the committee of the CWC officers. In the event of any of the documents found fabricated/tempered/forged/altered/manipulated/false during the evaluation of bid at any stage, it will lead to rejection of the bid and forfeiture of EMD of the tenderer. CWC reserve its rights to disqualify the tenderer and to blacklist /debar for future participation for the next five years.

In the event of any of the documents found fabricated/tempered/forged/altered/ manipulated/false in the bid even after the award of the contract, it will lead to termination of the contract, forfeiture of EMD or Performance Security / Security Deposit whichever is available at the time of termination. CWC reserve its rights to disqualify the tenderer and blacklist/debar for future participation in next five years.

- (**xxi**) In case the contractor fails to submit the requisite Performance Guarantee even after the period specified in Clause 1 of Schedule 'F' from the date of issue of Letter of Acceptance (LOA), the contract shall be terminated, duly forfeiting EMD and other dues, if any payable against the contract. The failed contractor shall be debarred from participating in future tender of the Corporation called for Engineering works for next one year from the date of debarring.
- (xxii) Date of opening of Financial Bids shall be intimated later separately to the technically qualified Tenderers.

- (**xxiii**) Tenderers or their authorized representative, who may wish to be present, may attend the opening of the technical bids whereas financial bids will be opened in presence of only those who are found eligible in technical bids.
- (**xxiv**) Corrigendum/Addendum to this Tender, if any, will be published on website www.cewacor.nic.in, www.cwceprocure.com and Central Procurement Portal (CPP) http://eprocure.gov.in/epublish/app only. Newspaper press advertisement shall not be issued for the same.
- (**xxv**) It is a Works Contract and hence, there is no exemption for EMD & Tender Cost on account of MSME.
- (xxvi) Tenderer / Bidder shall quote their rate inclusive of GST, ESI, EPF, Building & Construction Workers Cess and any other taxes, levies, duties, as applicable on complete work and after studying the relevant Clauses. CWC will not entertain any claim whatsoever in this respect. This should be included in the rates quoted by the contractor.
- (**xxvii**) Bidder should visit the site of work to be well versed with site geological, geographical, metrological environment. Address of Construction Site /Project Location is below. It is imperative on the part of the bidder to quote the rate accordingly.

Address	Gondia-II, Mundipar, MIDC, Plot No. B-28-29, Post- Dakhani,Gondia -441614
Nearby Major Railway Stations.	Gondia
Nearest City/District	Gondia
Nearest Airport	Nagpur

(xxviii) For any difficulty in downloading & submission of tender documents please contact M/s Indian Telephone Industries Limited, C-62, 2<sup>nd</sup> Floor, Preet Vihar, Opp. Metro Pillar 79, New Delhi-110092.

May also call at following help-line nos. : 011-49424365/8799753411

For any tender inquiry, please contact Sh.Abhi Kadian, EE(C),CWC,CO,New Delhi - M.No.817000009

**Chief Engineer** 





### **CENTRAL WAREHOUSING CORPORATION**

(A Govt. of India Undertaking)

### **CHECK LIST**

{To be Filled by Bidder & Submitted Alongwith the Tender}

SL	Documents to be Submitted by the Tenderer		Check & Confirm Attachment of Documents	
		Yes	No	
1.	Earnest Money Deposit (EMD) : Only through e-payment gateway of e-procurement system			
2.	Proof of Tender Cost Paid : Only through e-payment gateway of e-procurement system			
3.	Experience Certificate: For Executing Works of Similar Nature as per tender eligibility criteria (Annexure-A)			
4.	Chartered Accountant's Certificate: For tenderer's Annual Turnover, complete Audited Balance Sheet and Statement of Profit & Loss for preceding three financial years (as per Annexure A)			
5.	Affidavit on Stamp Paper: Duly attested by the Notary as per Annexure IV			
6.	Integrity Pact : As per <b>Annexure-V</b> , duly signed by Tenderer			
7.	Certificate of Net Worth: Duly certified by the Chartered Accountant as per <b>ANNEXURE I</b>			
8.	GST Registration Certificate (as applicable)			
9.	Permanent Account Number (PAN) Card			
10.	PF Registration Certificate			
11.	<ul> <li>(a) Affidavit for Sole Proprietary Firm as per ANNEXURE II         <ul> <li>or</li> <li>(b) Copy of Partnership Deed of a Partnership Firm</li> </ul> </li> </ul>			
	<ul> <li>(c) Certificate of Incorporation, Memorandum of Association</li> <li>&amp; Articles of Association for Company alongwith</li> </ul>			

SL	Documents to be Submitted by the Tenderer		Check & Confirm Attachment of Documents	
		Yes	No	
	resolution of the company for authorizing the Director / Authorised Signatory to sign the document			
12.	Certificate of Registration with Registrars of Company (ROC) in case of Ltd. / Pvt. Ltd. Company / PSU, if required			
13.	Power of Attorney in favour of signatory(ies) : Duly attested by Notary as per <b>ANNEXURE III</b> , if required			
14.	Declaration of near relative as per Annexure VI			
15.	Bar Chart : Duly signed			
16.	Declaration of works in hand as per as per Annexure-IX			
17.	Valid Registration Certificates of Contractor or Proof of having worked/working with CPWD / Railways / MES / State PWD / Other Govt. Organization / Govt. Sector Construction Agency / Public Sector Undertaking & their Subsidiary			
18.	List of Permanent Technical Persons			
19.	List of Plant & Machinery			
20.	Pre-Qualifying (PQ) Proforma			
21.	Bank Details (Account No., Bank Name, MICR No., RTGS No. & copy of Cancelled Cheque)			
22.	Electrical License, if required			
23.	Submission of Complete Tender Document : Duly signed			

### Pre-Qualifying (PQ) Proforma / Comparative Statement

{To be Filled by Bidder and Submitted along with Tender Document}

Name of Work:	
Tender No. :	
Name of the Firm :	

SL	Description	Details
1.	Name, Address, Organization ID, Tel./Fax No. & E-mail address of Bidder	
2.	Attested copy of Firm Details (Proprietorship / Partnership / Private Limited / Limited )	
3.	Attested Copy of Power of Attorney details to sign the Tender Document	
4.	Earnest Money Deposit (EMD) of Rs : Only through e-payment Gateway	
5.	Cost of Tender Documents of Rs: Only through e-payment Gateway	
6.	PF Registration	
7.	GST Registration (as applicable)	
8.	PAN No. of the Firm	
9.	Contractor Registration	
10.	Chartered Accountant's Certificate for Annual financial turnover/revenue (income) from operations of specified preceding three years	
11.	Annual Financial Turnover/Revenue (Income) from operations (as per P&L Account)	
	(a) FY - <b>20 20</b>	
	(b) FY - <b>20 20</b>	
	(c) FY - <b>20 20</b>	
12.	Financial Eligibility Criteria :	
	The sum total (arithmetic sum) of tenderer's turnover : revenue (income) from operations for the last three financial years (i.e) should be of value not less than ₹Lakh (90% of advertised Estimated Cost).	
	The information shall be supported by audited Balance Sheets and Profit & Loss Statements of specified period. In case Balance Sheet and Statement of Profit/Loss for the immediate preceding financial year have not been prepared	

SL	Description	Details				
	/ audited; the account for one more preceding financial year can be submitted.					
	In case, Bidder does not submit Audited balance sheet and P&L accounts for a particular year (among previous three years as mentioned above), turn over for that particular year will be considered '0'(zero) for calculating arithmetic sum of previous three years.					
	{Please see NIT Condition no. 1.(A)(iii)}					
13.	Experience w.r.t. Similar Nature of Work :					
	Tenderer must have completed successfully at least one similar nature of work "(i.e)" of value not less than Rs Lakh (35% of the advertised Estimated Cost) during the last four financial years (i.e. 2020, 2020, 2020 and 2020) & current year (2020) upto the date of tender submission.					
	Certificate should include the name of work, agreement no., date of start, actual date of completion & gross amount of work done upto the completion.					
	{Please see NIT Condition no. 1.(A)(ii) & its Note}					
14.	Organizational detail as per S.No. XClause-B – "other documents" under "sub-head-Important instructions for eligibility criteria".					
Note	Note :					
1. Te	Tenderers have to fill complete details in Pre-Qualifying Proforma.					
	Documents pertaining to above details should be scanned and uploaded on e- tendering website at the time of on-line tender submission.					
	RTGS/NEFT E-payment Challans with UTR no. duly authenticated by Bank may also be scanned & uploaded along with tender submission.					

4. Affidavit (**Annexure-IV**) must be submitted by the Bidder.

Tenderers to please also see Clause – 28,29, 30 & 31 of 'Instructions to Tenderers'.

### SECTION – I (INSTRUCTIONS TO TENDERERS)





### CENTRAL WAREHOUSING CORPORATION

(A Govt. of India Undertaking)

Corporate Office, 4/1, Siri Institutional Area, August Kranti Marg, Hauz Khas, New Delhi

### **INSTRUCTIONS TO TENDERERS**

### **On-line Percentage Rate E-tenders on behalf of Central Warehousing Corporation**

- 1. Tenderer should upload all the required documents with the tender under valid digital signature. Uploading of tender with digital signature shall imply that all tender terms & conditions have been accepted by the tenderer.
- 2. Tenderer's digital signature on the E-Tender Form will be considered as confirmation that they have read and accepted all the conditions laid down in the tender documents, unless specific deviation is quoted in the technical bid.
- 3. E-Tender form is not transferrable and the same is to be submitted through scanned copy having digital signature of the pre-authorized personnel of the tenderer. Tender is to be submitted through e-tender-mode only at website www.cwceprocure.com alongwith scanned copies of credential papers.
- 4. For whatsoever reasons, if any part of CWC tender document is not uploaded/submitted by the Tenderer, other than financial & technical offers and requisite Pre-Qualifying credentials; in that case, the missing part of the tender document shall be treated as read and accepted by Tenderer. **Missing part of CWC tender document shall not be** called for re-submission; however, the same shall form part of contract agreement and shall be binding on Tenderer.
- 5. **Tender without the prescribed Earnest Money, shall be summarily rejected**.
- 6. Any request for recovery from outstanding bills for Earnest Money against present tender will not, under any circumstance, be entertained. Tenders submitted with earnest money in the forms other than specified in NIT, shall not be considered.
- 7. No interest shall be allowed on the Earnest Money.
- 8. Earnest Money of the unqualified Tenderers shall be released after finalization of Technical bid in case of Two Bid System of tendering. EMD of technically qualified, but unsuccessful Tenderers will be refunded after the award of Tender. EMD of unsuccessful Tenderers shall be released after finalization of tender in case of Single Bid System of tendering. The Tenderer is advised to provide name of bank, account no., branch code and RTGS code for account maintained by them/him for any financial transaction, if found necessary.
- 9. For the successful Tenderer, Earnest Money will be retained as part of the Security Deposit in terms of **Clauses of Contract**. The earnest money of other Tenderers shall, save as herein before provided, be returned to them; but CWC shall not be responsible for any loss or depreciation that may happen thereto while in their possession, nor be liable to pay any interest thereon.
- 10. Tender Notice and Notice Inviting Tender shall form part of the contract document. The successful Tenderer/s shall be required to execute an agreement with CWC in prescribed Proforma at **Annexure-VII** within a maximum period of 15 days after date of issue of Work Order for carrying out the work as per the agreed conditions. Failure to do so shall constitute a breach, in which case, CWC would be at liberty to not only terminate the

contract, but also forfeit EMD and Performance Guarantee if any. Cost of stamp paper for the agreement will be borne by contractor.

The contract agreement shall consist of :

The Press Notification, Tender Notice, Notice Inviting Tender, Instructions to Tenderers, all the Documents of Tender & Contract for works including Special Conditions of Contract, Technical Specifications and Drawings, if any, forming the part of tender documents, as issued/downloaded by the Tenderer from the websites at the time of invitation of tender and acceptance thereof together with any correspondence with them leading thereto and also the correspondence related with verification of credentials.

- 11. The contract operations and proceeding in connection with the works at all times be conducted during the continuance of contract in accordance with the laws, ordinances, rules and regulations for the time being in force and the contractors shall further observe and comply with the by-laws & regulations of the Govt. of India, State Govts., local Municipalities and other authorities, having jurisdiction over area involved in connection with the works of site & over operations, such as those as carried out by the contractor/s and shall give all notices required by such by-laws & regulations. The hospital and medical regulations in force for the time being shall also be complied with by the contractor/contractors and their workmen.
- 12. The contractor shall be responsible for observance of the rules and regulations under Mines Act, Mineral Rules and Indian Metallurgical rules & regulations of State Govt. concerned, as amended from time to time.
- 13. The contractor shall, at all times, keep CWC indemnified against all penalties that may be imposed by the Govt. of India or State Govt. for infringement of any other clauses of the mines act and rules made thereunder in respect of the quarries from which the quarry material for these works is procured.
- 14. The Tenderer/s shall not increase his/their rate in case CWC negotiates for reduction of rates. Such negotiations shall not amount to cancellation or withdrawal of original offer and rates originally quoted will be binding on the Tenderer/s.
- 15. The Tenderer/s shall submit an analysis of rates, if called upon to do so.

A format for prices of material & labour is given in price bid which needs to be filled by the contractor in support of rate analysis which may be used to see the reasonability of rates quoted by the bidder.

- 16. Contractor is required to get himself registered as per Building & Other Construction Workers Cess Act 1996, PF Registration, GST etc. as per Govt. of India law.
- 17. Time is the essence of the contract. In order to complete the work within the scheduled time, the Tenderer is required to submit copy of GST registration Certificate, PAN Card, PERT/BAR CHART for major milestones for various activities indicating time required for the same alongwith tender documents / Performance Guarantee.
- 18. Copies of the drawing and documents pertaining to the works will be open for inspection by the Tenderers in the office of the Superintending Engineer / Chief Engineer, CWC.
- 19. Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, accommodation they may require and in general, shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender.

In case of hindrances, if any, because of telephone line, electric cables, overhead lines etc. passing over the site, the contractor shall be entitled for extension of time under Clause 5 of the agreement. No claim of extra payment and damages of any sort shall be entertained on this account.

A Tenderer shall be deemed to have full knowledge of the site whether he/they inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The Tenderer shall be responsible for arranging and maintaining at his own cost, all materials, tools and plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for, in the contract documents.

Submission of tender by a Tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plants etc. will be issued (if any) to him by the Corporation and local conditions and other factors having a bearing on the execution of the work.

- 20. The Competent Authority on behalf of Central Warehousing Corporation does not bind himself to accept the lowest or any other offer and reserves to himself the authority to reject any or all the tenders received without assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled and any condition including that of conditional rebate is put forth by the Tenderer, shall be summarily rejected.
- 21. The Competent Authority on behalf of Central Warehousing Corporation does not bind himself to accept the lowest tender and reserves to himself the right of accepting the whole or any part of the tender and the Tenderer shall be bound to perform the same at the rate quoted.
- 22. Tenders containing any condition leading to unknown/indefinite liabilities shall be summarily rejected.
- 23. Canvassing whether directly or indirectly in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
- 24. In the financial bid, the prices/rates must be filled after downloading the financial bid document in the prescribed format, issued through online e-tendering website. The financial bid should be saved and duly filled up and uploaded to the e-tendering site using digital signatures for signing the documents / (signed and uploaded).
- 25. On acceptance of the tender, the name of the accredited representative(s) of the contractor, who would be responsible for taking instructions from the Engineer-in-charge / Engineer shall be communicated to the Engineer-in-Charge.
- 26. Under Income Tax Act, 1961; a deduction for income tax alongwith surcharge, as applicable will be made from sums paid on account and final payments for carrying out the work under this contract.
- 27. The Tenderer shall be required to pay cess @ 1% of cost of construction work, or at the rate as mentioned in latest act/rules or guidelines of Government, in accordance with each bill payable on account of such construction to the concerned State Govt. (Labour Deptt.). Cost of material shall be outside the purview of cess, when supplied under a separate schedule items. CWC shall not entertain any claim whatsoever in this respect.
- 28. The tenderer shall scan and upload the proof of submission of EMD, Cost of tender, CA Certificate & Balance Sheets with Profit & Loss Account of specified preceding three financial years in respect of financial turnover, Power of Attorney, Affidavit of Proprietorship / Memorandum & Article of Association, PF Registration Certificate, Pan Card, Bar Chart, Goods and Service Tax Registration Certificate, Similar Nature Works Completion Certificates, **Annexure IV**, Net Worth Certificate, Integrity Pact, if required, **Annexure VI** and **Annexure IX**.
- 29. No additional mandatory documents will be entertained after tender opening, except clarification documents required, if any regarding already submitted documents with tender. Any documents submitted suo-motu by the Tenderer through e-mail/post/hand delivery etc. shall neither be entertained nor considered for evaluation.

- 30. For deciding eligibility of tenderer, it is mandatory for Tenderer to submit Affidavit (as per Annexure IV), EMD, Financial Turnover (Balance Sheets with Profit & Loss Account of specified preceding three years as per NIT) and Similar Nature of Work Experience Certificates of requisite magnitude (as per NIT), failing which the tender shall be summarily rejected.
- 31. All other documents like Integrity Pact, Net Worth, Goods and Services Tax Registration Certificate, PAN Card, PF Registration, Organisation Details, Power of Attorney, Annexure VI, BAR/PERT Chart, Form of declaration as per Annexure -VI & IX, List of plant & machinery, list of permanent technical persons, Bank details etc. as per NIT/pre-qualifying Proforma / Comparative Statement, are also required to be submitted alongwith tender.

NOTE :

- CWC (Corporation), if necessary, can ask the tenderer for any specific clarification (a) relating to qualifying documents/conditions within the specified time of 07 days. For this purpose, the procedure stated below is to be followed and the specific clarification is required to be uploaded on the same portal as per the procedure prescribed therein.
- (b) The tenderer has the option to respond or not to respond to these queries.
- (c) The request for clarification by the Corporation and the response of the tenderer shall be in writing and no change in price or substance of the tender shall be sought, offered or permitted.
- (d) If the tenderer fails to respond, within the stipulated time period or the clarification(s)/document(s) with respect to mandatory documents submitted is non-conforming to requirement of tender conditions; no further time will be given for submitting the same and the tender will be summarily rejected.
- (e) All other documents should also be uploaded by the tenderer. However, if the tenderer has not uploaded any of the other documents as per NIT/Pre-gualifying Proforma/Comparative Statement, lowest tenderer should submit the same with submission of Performance Guarantee, If the lowest tenderer fails to do so, then no Agreement between CWC and contractor will be executed and it will lead to rejection of bid and forfeiture of EMD & Performance Guarantee.

For obtaining clarification, following procedure is to be followed:

- An icon for clarification shall appear on "Bid Details" page (in front of each of the (i) tenderer's name) at Corporation's end after opening of Technical / Financial Bid.
- Corporation shall click on clarification icon for the desired tenderer and enter the (ii) details of clarifications sought within the prescribed time.
- After entering the details of clarification sought by the Corporation, same icon shall (iii) appear at tenderer's end for replying to the particular clarification sought by the Corporation. The system will also send the alert to the tenderer at his registered e-mail address about the clarification sought by the Corporation.
- (iv) Tenderer will click on clarification icon and will reply to the same and upload the required clarification/documents in support of clarification sought, if any, within the prescribed time. Tenderer cannot ask for any clarification from the corporation.
- Once the prescribed time expires, clarification icon from tenderer site shall also (v) disappear automatically.
- (vi) After expiry of prescribed time, Corporation shall download the clarification/ documents in support of clarification submitted by the Bidder.
- 32. If the tender is made by Proprietary firm, it shall be signed by the Proprietor with his full name and full name of his firm with its current address.
- 33. If the application is made by a Firm in Partnership, it shall be signed by all partners of the Firm above their full names and current addresses or by a partner holding the power of attorney for the Firm by signing the applications in which case a certified copy of the power

of attorney shall accompany the application. A certified copy of the Partnership Deed, current address of the Firm and the full names and current addresses of all the Partners of the Firm shall also accompany the application.

- 34. If the application is made by a limited company or a limited corporation, it shall be signed by a duly authorized person, holding the power of attorney for signing the application in which case a certified copy of the Power of Attorney shall accompany the application. Such Limited Company or Corporation will be required to furnish satisfactory evidence of its existence, before the contract is awarded.
- 35. In the event of any of the documents found fabricated/tempered/forged/altered/ manipulated/false during the evaluation of bid at any stage, it will lead to rejection of the bid and forfeiture of EMD of the tenderer. CWC reserve its rights to disqualify the tenderer and to blacklist/debar for future participation for the next five years.

In the event of any of the documents found fabricated/tempered/forged/altered/ manipulated/false in the bid even after the award of the contract, it will lead to termination of the contract, forfeiture of EMD or Performance Security/Security Deposit, whichever is available at the time of termination. CWC reserve its rights to disqualify the tenderer and to blacklist/debar for future participation for the next five years.

- 36. Notwithstanding anything contained in the Clause above, the Tenderer shall execute the Power of Attorney (POA) in prescribed format as mentioned in **ANNEXURE III** and shall conform to the following –
- 36.1 A company, while executing Power of Attorney must make conformity with the Board Resolution and the charter documents giving the power to issue the said Power of Attorney including further sub-delegation of the same by the said POA holder only.
- 36.2 Unless notified in writing to the Tendering Authority, the Authority shall recognize only that POA holder for the purposes of tender submission and matters related thereto whose notice and necessary POA document was submitted to the Authority at the time of tender submission.
- 36.3 While for a Partnership Firm, either all the partners of the partnership firm shall execute and confirm the Power of Attorney if executed or there shall exist a Power of Attorney in favour of the Partners executing the Power of Attorney for the delegation of power on behalf of the Tenderer.
- 36.4 The Power of Attorney being executed by the Tenderer herein shall be executed in favour of only its Partner or Director or Salaried employee. And in case the POA is being executed by the Tenderer in favour of its salaried employee, the said employee should have worked for at least more than one year continuously with the Tenderer and the Tenderer should furnish the following:
  - (i) Name
  - (ii) Designation
  - (iii) Mobile / Contact no.
  - (iv) Employment Letter / Agreement issued by the Firm
  - (v) Identity Card with number, issued by the Firm
  - (vi) Information about the wages paid, i.e. Salary Slips
  - (vii) Form-16
  - (viii) PAN Card
  - (ix) PF Number
  - (x) Power of Attorney as per **ANNEXURE III**
- 36.5 CWC will not be bound by the Power of Attorney furnished by the Tenderer and acceptance of the same shall be at the sole discretion of the CWC.
- 36.6 There can validly exist only a single Power of Attorney at any given time. The Power of Attorney executed and accepted by CWC shall stand revoked on issuance of any new Power of Attorney issued within the rules herein, with regard to this particular Project.

- 36.7 During the subsistence of contract, if Power of Attorney holder is found to be creating mischief or involved in any illegal or unlawful activity, CWC will at its sole discretion reject the Power of Attorney of such person submitted by the Tenderer and the Tenderer would be required to issue a fresh Power of Attorney within the rules herein in favour of authorized person, stated above, within a period of 10 days of being so notified.
- 37. Should a Tenderer find discrepancies or omissions in the drawings or any of the Tender forms or should he be in doubt as to their meaning, he should at once notify (within 10 days of start of tender sale) to the authority inviting tenders, who may send a written intimation to all Tenderers. It should be understood that every endeavour has been made to avoid any error which can materially affect the basis of the tender and the successful Tenderer shall take upon himself and provide for the risk of any error which may subsequently be discovered & shall make no subsequent claim on account thereof.
- 38. The CWC will not be bound by any power of attorney granted by the Tenderer or by change in the composition of the Firm and subsequent to the execution of the contract. It may, however, recognize such Power of Attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.
- 39. If a Tenderer expires after the submission of his tender or after the acceptance of his tender, the CWC shall deem such tender as cancelled. If a partner of a Firm expires after the submission of their tender or after the acceptance of their tender, the CWC shall deem such tender as cancelled, unless the Firm retains its character. However, in such cases, the amount of Earnest Money will be refunded to the legal heir on production of successor certificate.

### 40. In E-Tendering, Bids in physical form in tender box/by post shall not be accepted.

- 41. Submission of tender and credential documents through E-Tender website www.cwceprocure.com is sole risk & responsibility of the Tenderer. Any claim on this account will not be entertained. Hence, Tenderer should ensure that tender alongwith all requisite credential papers are submitted / uploaded on e-tender website on or before tender submission date & time.
- 42. Time is the essence of the contract. The work is required to be completed within stipulated time schedule to be reckoned from the date of issue of acceptance letter as given below:

Stipulated period of completion: <u>09 months (Nine months)</u> from the 15<sup>th</sup> day from date of issue of Letter of Acceptance.

- 43. Tender documents consisting of plans, technical specifications, schedule of quantities of the various classes of work to be done and set of terms & conditions of the contract to be complied with by the contractor, whose tender may be accepted and other necessary documents, can be seen in the office of the Superintending Engineer / Chief Engineer, CWC, Corporate Office, New Delhi between 11 am and 4 pm from **20.04.22 to 18.05.22** on every working day, except on Sundays and Public Holidays.
- 44(a) The contractor, whose tender is accepted, will be required to furnish Performance Guarantee @ 5% (five percent) of the contract amount within the period specified in Schedule 'F'. This Guarantee cannot be in the form of cash. Guarantee can be deposited in form of Demand Draft of any Scheduled Bank (in case guarantee amount is less than Rs. 1,00,000) or Govt. Securities or Guarantee Bonds of any Scheduled Bank or the State Bank of India in favour of Central Warehousing Corporation in accordance with the prescribed form. In case the contractor fails to deposit the said Performance Guarantee within the period, as indicated in Schedule 'F', including the extended period if any, the EMD by the contractor shall be forfeited automatically without any notice to them and the contract shall be treated as cancelled.
- 44(b) In case the PG/SD is to be submitted through BG then, The Bank Guarantee issuing bank shall send cover for Bank Guarantee issued

through SFMS platform to the CWC Banker i.e. ICICI Bank, 9 Phelps Building, Connaught Place, New Delhi, (IFSC Code: ICIC0000007) as per details given below:

- $\succ$  MT760 COV for issuance of bank guarantee.
- ➤ MT767 COV for amendment of bank guarantee.
- $\succ$  Issuing bank shall mention CWC beneficiary code i.e. CENTRALW27112020 in field 7037 of MT 760 COV / MT767 COV.

 $\succ$  The bidder shall submit the copy of SFMS message as sent by the issuing bank branch along with the original Bank Guarantee.

### Bank Guarantee submitted without these details shall not be accepted.

- 45 The contractor should quote the rate on-line in prescribed proforma, available with the tender in Excel format and sign the same digitally. In the event of signing the tender by the Tenderer in an Indian language, the percentage above or below the Estimated Cost and tendered amount in case of percentage rate tenders and total amount in case of item rate tender should also be written in the same language. In case of illiterate contractors, the rates or the amounts tendered to be attested by a witness.
- 46 In case, an increase in quantity of an individual item is considered unavoidable, then same shall be executed & paid as per detailed provisions contained in Clause 12.2-C of General Conditions of Contract, which may be gone through.
- 47. The Tenderer, apart from being a contractor of appropriate class must associate himself with agencies of the appropriate class which are eligible to tender for (i) Electrical, (ii) Sanitary and Water Supply Installation, (iii) Fire safety installation works,(iv) Horticulture and others, if any.
- 48 The contractor shall not be permitted to tender for works in the Central Warehousing Corporation in which his near relative is posted as Accounts Officer or as any officer in any capacity between the grade of Chief Engineer and Assistant Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any officer in the Central Warehousing Corporation or in the Ministry of Consumer Affairs, Food & Public Distribution, Govt. of India, New Delhi. The Corporation reserves the right to debar the Tenderer from participating in future bidding processes of the Corporation for a minimum period of five years, which may be further extended at the discretion of the Corporation for any breach of this condition.
- 49 No Engineer employed in Engineering or Administrative duties in Engineering Division of the Corporation is allowed to work as a contractor and also an employee of contractor for a period of one year after his retirement from Corporation service, without the previous permission of the Central Warehousing Corporation in writing. This contract is liable to be cancelled, if either the contractor or any of his employees is found at any time to be such a person who had not obtained the permission of the Central Warehousing Corporation as aforesaid before submission of the tender or engagement in the contractor's service.

### 50. Conditions of Contract and Specifications :

50.1 Works will be carried out according to the Conditions of Contract, CPWD Specifications with upto date correction slips alongwith Special Conditions of Contract, Technical Specifications and approved Drawings of CWC, issued with this tender document. For roads and pavements, MORTH Specifications shall be followed. However, if any particular item or issue is not covered by these specifications and special specifications, the work shall be carried out in accordance to relevant BIS (IS) Codes and Code of Practice.

- 50.2 MORTH Standard Specification (latest revised edition) for Road and bridge work; alongwith up-to-date correction slips for roads "& pavements can be obtained from Secretary, Indian Road Congress, Jam Nagar House, New Delhi's book shop.
- 50.3 CPWD's Specifications & DSR with up-to-date correction slips can be obtained from CPWD office, Nirman Bhawan, New Delhi.
- 50.4 The bid document shall be taken as complimentary and mutually explanatory to each another; but in case of ambiguity or discrepancy, it shall take precedence as per Conditions of Contract.
- 51. The Special Conditions of Contract shall be read in conjunction with General Conditions of Contract. Where the provisions of Special Conditions of Contract are at variance with above mentioned documents, the Special Conditions of Contract shall prevail.
- 52. It is brought to the notice of tenderers that their tender will not be considered, if they fail to fulfil the Minimum Eligibility, as indicated in **Annexure 'A'**.
- 53. The Price quoted by the tenderer and accepted by CWC, shall remain firm during the currency of contract including the extended period, if any extended due to any reason attributable to either CWC or Contractor or Force majeure. No claim, whatsoever shall lie against the Corporation on account of any variation, escalation etc. in the rates.
- 54. Validity of the tender will be ninety (90) days from the date of opening of Technical Bid.
- 55. Tender form should be purchased by the Bidder who is participating in the tender, i.e. Tender form should be in name of bidder, otherwise tender will be summarily rejected.

Chief Engineer For and on behalf of Central Warehousing Corporation

## SECTION – II

### (MINIMUM ELIGIBILITY CRITERIA FOR THE TENDERERS)

### MINIMUM ELIGIBILITY CRITERIA

### 1. EMD, Cost of Tender & Tender Processing Fees :

- EMD to be paid in favour of Central Warehousing Corporation, New Delhi only through e-payment gateway of e-procurement & receipt of same should be scanned and uploaded on the e-tendering website www.cwceprocure.com along with e-tender documents.
- Cost of tender to be paid only through e-payment gateway of e-procurement system. Proof should be submitted/uploaded with the tender.
- Tender processing fee (Non-refundable) would be paid mandatorily to M/s ITI Ltd. through e-payment on the portal <u>www.cwceprocure.com</u>.

### 2. Experience Certificate:

Tenderer should have completed successfully at least one similar nature of work **i.e Construction of Warehouse/Godowns OR industrial sheds OR Building, OR Railside warehouse complex, alongwith associated works of drain, road, circulating area, internal & external electrification and other allied works**." of value not less than **₹276.18 Lakhs** (35% of the advertised Estimated Cost) during the last **four** financial years (i.e. 2018-19, 2019-20, 2020-21 & 2021-22) & current year (2022-23) up to the date of tender submission. Certificate should include the name of work, agreement number, date of start, actual date of completion & gross amount of work done upto the completion.

### It should be noted that credentials for the works executed for Private Organization shall not be considered.

{*Please see NIT Condition no. 1.(A)(ii) & its Note*}

### 3. Turnover: Financial Eligibility Criteria:

The sum total (arithmetic sum) of tenderer's turnover: revenue (income) from operations for the last three financial years (i.e 2019-20, 2020-21 & 2021-22) should be of value not less than ₹710.18 Lakh (90% of advertised Estimated Cost).

The information shall be supported by audited Balance Sheets and Profit & Loss Statements of specified period. In case Balance Sheet and Statement of Profit/Loss for the immediate preceding financial year have not been prepared / audited; the account for one more preceding financial year can be submitted.

In case, Bidder does not submit Audited balance sheet and P&L accounts for a particular year (among previous three years as mentioned above), turn over for that particular year will be considered '0'(zero) for calculating arithmetic sum of previous three years.

{Please see NIT Condition no. 1.(A)(iii)}{Please see NIT Condition no. 1.(A)(iii)}

- 4. Affidavit : Duly filled up and signed on stamp paper as per Annexure IV.
- **Note**: (i) Tenderer not fulfilling the above requirements or submission of clarification documents with respect to mandatory document, shall be summarily rejected.
  - (ii) The bidder, who have changed the name of Firm/merged/acquired/purchased any Firm whose credential papers are being used/submitted for qualification of tender, should submit the following documents in this regard:
    - (a) The copy of certificate of Incorporation of Firm or Registration Certificate of Firm.
    - (b) Copy of Memorandum and Articles of Association of Firm.
    - (c) Copy of Board Resolution regarding change of name of/take over/merger of Firm.

- (d) Copy of sale deed/Memorandum of Understanding for Purchase/sale/merger of Firm along with assets and liabilities.
- (e) Copy of PF Registration and PAN Card.
- (f) Affidavit regarding change of name of Firm along with all assets and liabilities, if any.
- (g) Affidavit regarding closure of business of Old Firm/Merged Firm.
- (h) Copy of Certificate of CA/Company Secretary regarding Sale/Merger/Change of name of Firm.

In absence of the complete documentary evidence, such offer shall be summarily rejected.

**Chief Engineer** 

### SECTION – III (TENDER FORMS & ANNEXURES)

### **CENTRAL WAREHOUSING CORPORATION**

(A Govt. of India Undertaking)

Corporate Office, 4/1, Siri Institutional Area, August Kranti Marg, Hauz Khas, New Delhi

### **"TENDER & CONTRACT"**

### **PERCENTAGE RATE TENDER & CONTRACT FOR WORKS**

Tender for the Work of: Construction of 12528 MTC Godown along with Internal Roads, Drains and electrical Installation at CW, Gondia-II (Mah.)

- (i) To be submitted on-line at Website: <u>www.cwceprocure.com</u> latest by **3:00 pm on 19.05.22**
- (ii) To be opened on-line at Website : <u>www.cwceprocure.com</u> in presence of Tenderers or their authorized representative who may wish to be present at **3.30 pm on 19.05.22** in the office of Chief Engineer / Superintending Engineer, Central Warehousing Corporation, Corporate Office, 4/1, Siri Institutional Area, August Kranti Marg, Hauz Khas, New Delhi -110016.

### TENDER

I/We have read and examined the Tender Notice; Notice Inviting Tender; Schedules - A, B, C, D, E & F; Specifications applicable, Drawings & designs; General rules & directions; Conditions of contract; Clauses of contract; Special conditions; Schedule of rate; Other documents; Rules referred to in the Conditions of Contract and all other contents in the tender documents for the work.

I/We hereby tender for execution of the work, specified for the Central Warehousing Corporation within the time specified in Schedule 'F', viz. Schedule of quantities and in accordance in all respects with the Specifications, Designs, Drawings and Instructions in writing, referred to in Rule 1 of General Rules & Directions and in line of technical, special, General Conditions of Contract and with such materials, as are provided for by and in respect & in accordance with such conditions, so far as applicable.

I/We agree to keep **the tender open for ninety (90) days from the date of opening of Technical Bid** under two bid system and not to make any modifications in its terms and conditions.

A sum of **Rs.** \_\_\_\_\_\_\_ including **GST** is hereby submitted **through e-payment** gateway of e-procurement as EMD and Cost of the tender **Rs.** \_\_\_\_\_\_\*. If I/We fail to furnish the prescribed Performance Guarantee within prescribed period after award of the contract to me/us; I/We agree that the Central Warehousing Corporation shall, without prejudice to any other right/remedy, be at liberty to forfeit the said Earnest Money absolutely. Further, if I/We, fail to commence the work as specified, I/We agree that the Central Warehousing Corporation shall, without prejudice to any other right or remedy, be at liberty to forfeit the said Earnest Money absolutely. Further, if I/We, fail to commence Guarantee absolutely, otherwise the said Earnest Money shall be retained by the Corporation towards Security Deposit to execute all the works referred to in the tender documents upon the terms and conditions, contained or referred to therein and to carry out such deviations

as may be ordered, upto maximum of the percentage mentioned in Schedule 'F' and those in excess of that limit at the rates to be determined in accordance with the provisions contained in Clause 12.2 and 12.3 of the Tender Form. Further, I/We agree that in case of forfeiture of Earnest Money or both Earnest Money and Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

"I/we undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back-to-back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering in CWC in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-charge shall be free to forfeit the entire amount of Earnest Money Deposit / Performance Guarantee."

I/We hereby declare that I/We shall treat tender documents, drawings and other records connected with the work as secret / confidential documents and shall not communicate information / derived there from to any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner pre-judicial to the safety of the Corporation.

Dated \_\_/\_\_/\_\_\_\_

### Signature of Contractor Postal Address

Witness :

Address :

Occupation :

\* Cost of the tender to be deposited along with the EMD would be applicable only to those contractors who will download the tenders from the websites as mentioned in the NIT.

### ACCEPTANCE

The a	above tender (as modified by you as pro	ovided in the letters menti-	oned hereunder) is
accepted by	me for and on behalf of Central V	Varehousing Corporation	for a sum of Rs.
	(Rupees		), i.e %
above / belo	w the estimated cost of work of Rs	(Rupees	
	).		
The l	etters referred below shall form part of	this Contract Agreement -	-
(a)			
(b)			
(c)			

Dated : \_\_/\_\_/\_\_\_\_

### For & on behalf of CWC

Signature	
Designation	

### FORMAT OF NET WORTH

The Net Worth o	of Mr./Ms./M/s		for	last
Financial Year	is Rs	lakhs as per his/her/their books of Acco	ount	s.

(<u>Note</u> : Net Worth means sum total of paid up share capital plus free reserves. Further, any debit balance of Profit & Loss Account and Misc. Expenses to the extent not adjusted / or written off, if any, shall be reduced from Reserves and Surpluses.

Signature of Chartered Accountant
Name :
Membership No. :
Seal :
Date :

Signature of Contractor

### AFFIDAVIT

### (For Sole Proprietary Firm)

(To be executed in presence of Public Notary on non-judicial stamp paper of appropriate value. The stamp paper has to be in the name of the tenderer.)

K/U					
	do	hereby	solemnly	affirm	and
der –					
am Sole Proprietor of					
	(Sole Pro	prietor F	Firm Name	).	
he office of the firm is situated at _					
			(ä	address	).
	der – I am Sole Proprietor of	der – I am Sole Proprietor of (Sole Pro	do hereby der – I am Sole Proprietor of (Sole Proprietor F	der – do hereby solemnly der – d am Sole Proprietor of (Sole Proprietor Firm Name the office of the firm is situated at	der – do hereby solemnly affirm

Place :

DEPONENT

Date :

### VERIFICATION

Verified that the contents of my above said affidavit are true and correct to the best of my knowledge & belief and nothing has been concealed there from.

Place :

DEPONENT

Date :

### FORMAT FOR POWER OF ATTORNEY TO AUTHORIZED SIGNATORY

### **POWER OF ATTORNEY**

(To be executed on non-judicial stamp paper of the appropriate value in accordance with relevant Stamp Act. The stamp paper to be in the name of the Firm / Company who is issuing the Power of Attorney)

We, M/s \_\_\_\_\_\_ (name of the Firm / Company with address of the registered office) hereby constitute, appoint and authorize Mr/Ms \_\_\_\_\_\_ (Name & residential address) who is presently with us and holding the position of \_\_\_\_\_\_ and whose signature is given below, as our Attorney to do in our name and our behalf all or any of the acts, deeds or things, necessary or incidental to our bid for the work \_\_\_\_\_\_ (name of work), including signing and submission of application / tender / proposal, participating in the meetings, responding to queries, submission of information / documents and generally, to represent us in all the dealings with CWC or any other Government Agency or any person, in connection with the works until culmination of the process of bidding, till the Contract Agreement is entered into with CWC and thereafter, till the expiry of the Contact Agreement.

We hereby agree to ratify all acts, deeds and things lawfully done by our said Attorney, pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid Attorney shall always be deemed to have been done by us.

Dated this the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_

(Signature and Name of Authorized Signatory, being given Power of Attorney)

### Signature and Name in block letters of Proprietor / All the Partners of the Firm / Authorized Signatory for the Company) (*Strike out whichever is not applicable*)

Seal of the Proprietorship Firm / Partnership Firm / Company

Witness 1 :	Witness 2 :
Name :	Name :
Address :	Address :
Occupation :	Occupation :

### Notes :

- The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.
- Power of Attorney is to be attested by Notary.

### **AFFIDAVIT**

### *{TO BE SUBMITTED BY TENDERER ALONGWITH THE TENDER DOCUMENTS}*

(To be executed in presence of Public Notary on non-judicial stamp paper of the value of Rs. 100. The stamp paper has to be in the name of the tenderer.)

I <u>(Name and Designation)</u>, appointed as the attorney / authorized signatory of the tenderer (including its constituents) M/s\_\_\_\_\_\_ (hereinafter called the tenderer) for the purpose of the Tender documents for the work of \_\_\_\_\_\_ as per the Tender No.\_\_\_\_\_\_ of CWC, do hereby solemnly affirm and state on behalf of the tenderer including its constituents, as under :

- 1. I/We the tenderer(s), am/are signing this document after carefully reading the contents.
- 2. I/We the tenderer(s) also accept all the conditions of the tender document and have signed all the pages in confirmation thereof.
- 3. I/We hereby declare that I/We have downloaded the tender documents from CWC tender portal www.cwceprocure.com and printed the same. I/We have verified the content of the printed document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage (i.e. evaluation of tenders & execution of work), the decision of CWC with regard to such discrepancies shall be final and binding upon me/us.
- 4. I/We declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
- 5. I/We also understand that my/our offer will be evaluated based on the documents / credentials submitted along with the offer and same shall be binding upon me/us.

I/We declare that the information and documents submitted along with the tender by me/us are correct and I/We are fully responsible for the correctness of the information and documents, submitted by us.

- 6. I/We understand that if the Certificates regarding Eligibility Criteria, submitted by us are found to be forged/false or incorrect at any time during process for evaluation of tenders, it shall lead to forfeiture of the tender EMD besides suspending of business for five year. Further, I/We <u>[insert name of the tenderer]</u> and all my/our constituents understand that my/our offer shall be summarily rejected.
- 7. I/We also understand that if the certificates submitted by us are found to be false/ forged or incorrect at any time, after the award of the contract, it will lead to termination of the contract, alongwith forfeiture of EMD/SD and Performance Guarantee, besides any other action provided in the contract and suspending of business for five year.
- 8. I/We also understand that in case I/we fails to submit the requisite Performance Guarantee even after the period specified in Clause 1 of Schedule 'F' from the date of issue of Letter of Acceptance (LOA), the contract shall be terminated, duly forfeiting EMD and other dues, if any payable against the contract or in case of termination of contract due to default at

my/our end, I/we shall be debarred from participating in future tender of the Corporation called for Engineering works for next one year from the date of debarring.

- 9. I/We certify that I/We are not black listed or debarred by MES / CPWD / Railways / any Govt. Department / State PWDs / PSU (Public Sector Undertaking) and Govt. Sector Construction Agencies from participation in tenders / contract on the date of opening of bids.
- 10. I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back-to-back basis. Further that, if such a violation comes to the notice of Department, then I/We shall be debarred for tendering in CWC in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit / Performance Guarantee.

### 11. COMPLIANCE TO BID REQUIREMENT :

**I/**We hereby confirm that we have gone through and understood the Tender Document and our Bid complies with the requirements / terms & conditions of the Tender Document and subsequent Addendum / Corrigendum (if any), issued by CWC, without any deviation / exception / comments / assumptions.

We also confirm that we have quoted the rates without any condition and deviation.

The Tender has been submitted along with the required documents and same have been uploaded under digital signatures of the authorized signatory. We undertake that the tender document shall be deemed to be our bid and in the event of award of work to us, the same shall be considered for constitution of contract agreement. Further, we shall sign and stamp each page of the Tender Document as token of acceptance and as part of contract in the event of award of contract to us. We further confirm that we have quoted our rates in our financial bid as per the conditions of the Tender Document and for all the items.

### DEPONENT

### Seal and Signature of the Tenderer

### VERIFICATION

Place :

I/We above named tenderer do hereby solemnly affirm and verify that the contents of my / our above Affidavit are true and correct. Nothing has been concealed and no part of it is false.

### DEPONENT

### Seal and Signature of the Tenderer

### Dated :

- Details, as appropriate, are to be filled in suitably by tenderer.
- Attestation before Magistrate/ Notary Public.

### **ANNEXURE-V**

### **INTEGRITY PACT**

То

Sub : NIT No. \_\_\_\_\_\_ for the work \_\_\_\_\_\_

Dear Sir,

It is hereby declared that CORPORATION is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the TENDERER will sign the Integrity Agreement, which is an integral part of tender/bid documents, failing which the TENDERER will stand disqualified from the tendering process and the bid of the TENDERER would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the CORPORATION.

Yours faithfully

Executive Engineer / CWC

### **INTEGRITY PACT**

То	

Sub : Submission of Tender for the work of \_\_\_\_\_

Dear Sir,

I/We acknowledge that CORPORATION is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by CORPORATION. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, CORPORATION shall have unqualified, absolute and unfettered right to disqualify the TENDERER and reject the tender/bid is accordance with terms and conditions of the tender/bid.

Yours faithfully

(Duly authorized signatory of the TENDERER)

### **INTEGRITY PACT**

This Integrity Agreement (hereinafter called the Integrity Pact) is made on \_\_\_\_\_ day of the month of \_\_\_\_\_, 20\_\_\_

#### between

Central Warehousing Corporation (A Govt. of India Undertaking), 4/1 Siri Institutional area, Hauz Khas, New Delhi, acting through Chief Engineer / Superintending Engineer, Central Warehousing Corporation (A Govt. of India Undertaking) (hereinafter called the "**CORPORATION**" which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

and

through M/s \_\_\_\_\_, represented by Shri \_\_\_\_\_, (Name of the Contractor) (hereinafter referred to as the "TENDERER" and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns).

#### Preamble

WHEREAS the CORPORATION has floated the Tender (NIT No. \_\_\_\_\_) (hereinafter referred to as "**Tender/Bid**") and intends to award, under laid down organizational procedure, contract to construct \_\_\_\_\_\_ MTC Godown (Name of work) alongwith \_\_\_\_\_\_ at \_\_\_\_\_ hereinafter referred

### to as the "Contract".

AND WHEREAS the CORPORATION values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its TENDERER(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as "**Integrity Pact**" or "**Pact**"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under :

#### Article 1 : <u>Commitment of the Corporation</u>

- 1.1 The Corporation commits itself to take all measures necessary to prevent corruption and to observe the following principles :
  - (a) No employee of the Corporation, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
  - (b) The Corporation will, during the Tender process, treat all TENDERER(s) with equity and reason. The Corporation will, in particular, before and during the Tender process, provide to all TENDERER(s) the same information and will not provide to any TENDERER(s) confidential / additional information through which the TENDERER(s) could obtain an advantage in relation to the Tender process or the Contract execution.
  - (c) The Corporation shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- 1.2 If the Corporation obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Corporation will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

### Article 2 : <u>Commitment of the TENDERER(s)</u>

2.1 It is required that each TENDERER (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Corporation all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.

- 2.2 The TENDERER(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution :
  - (a) The TENDERER(s) will not, directly or through any other person or firm, offer, promise or give to any of the Corporation's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
  - (b) The TENDERER(s) will not enter with other TENDERER(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the tendering process.
  - (c) The TENDERER(s) will not commit any offence under the relevant IPC/PC Act. Further the TENDERER(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Corporation as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
  - (d) The TENDERER(s) of foreign origin shall disclose the names and addresses of agents/ representatives in India, if any. Similarly, TENDERER(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participates in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer alongwith the first manufacturer in a subsequent/parallel tender for the same item.
  - (e) The TENDERER(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- 2.3 The TENDERER(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 2.4 The TENDERER(s) will not, directly or through any other person or firm indulge in fraudulent practice means a wilful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.
- 2.5 The TENDERER(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

### Article 3 : Consequences of Breach

Without prejudice to any rights that may be available to the Corporation under law or the Contract or its established policies and laid down procedures, the Corporation shall have the following rights in case of breach of this Integrity Pact by the TENDERER(s) and the TENDERER accepts and undertakes to respect and uphold the Corporation's absolute right :

- 3.1 If the TENDERER(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Corporation after giving 14 days' notice to the contractor shall have powers to disqualify the TENDERER(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the TENDERER from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Corporation. Such exclusion may be forever or for a limited period as decided by the Corporation.
- 3.2 Forfeiture of EMD/Performance Guarantee/Security Deposit :

If the Corporation has disqualified the TENDERER(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Corporation apart from exercising any legal rights that may have accrued to the Corporation, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the TENDERER.

3.3 Criminal Liability :

If the Corporation obtains knowledge of conduct of a TENDERER, or of an employee or a representative or an associate of a TENDERER which constitutes corruption within the meaning of IPC Act, or if the Corporation has substantive suspicion in this regard, the Corporation will inform the same to law enforcing agencies for further investigation.

#### Article 4 : <u>Previous Transgression</u>

- 4.1 The TENDERER declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 4.2 If the TENDERER makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/holiday listing of the TENDERER as deemed fit by the Corporation.
- 4.3 If the TENDERER can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Corporation may, at its own discretion, revoke the exclusion prematurely.

#### Article 5 : Equal Treatment of all Tenderers/Contractors/Sub-contractors

- 5.1 The TENDERER(s) undertake(s) to demand from all sub-contractors a commitment in conformity with this Integrity Pact. The TENDERER shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub-contractors/sub-vendors.
- 5.2 The Corporation will enter into Pacts on identical terms as this one with all TENDERER.
- 5.3 The Corporation will disqualify TENDERER, who do not submit, the duly signed Pact between the Corporation and the bidder, alongwith the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

### Article 6 : <u>Duration of the Pact</u>

This Pact begins when both the parties have legally signed it. It expires for the TENDERER 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other TENDERERs, till the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, Corporation.

#### Article 7 : <u>Other Provisions</u>

- 7.1 This Pact is subject to Indian Law, place of performance and jurisdiction is the Headquarters of the Division of the Corporation, who has floated the Tender.
- 7.2 Changes and supplements need to be made in writing. Side agreements have not been made.
- 7.3 If the TENDERER is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
- 7.4 Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intensions.
- 7.5 It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Corporation in accordance with this Integrity Agreement/Pact or interpretation thereof shall not be subject to arbitration.

#### Article 8 : Legal and Prior Rights

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

### Article 9: <u>Independent Monitor</u>

- 9.1 The CORPORATION has appointed Sh. Vishnu Agarwal, Flat No.-265, Vigyapan Lok, Plot No-15, Mayur Vihar Phase-I Extension, Delhi-110091 and Sh. Anupam Kulshreshtha, B-3/3, Yarrow Apartments, Plot C-58/5, Sector-62, Noida UP-201309an Independent Monitor (hereinafter referred to as Monitor) for this Pact in consultation with the Central Vigilance Commission.
- 9.2 The task of the Monitor shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
- 9.3 The Monitor shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 9.4 Both the Parties accept that the monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings.
- 9.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the CORPORATION.
- 9.6 The TENDERER(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the CORPORATION including that provided by the TENDERER. The TENDERER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the TENDERER/Subcontractor(s) with confidentiality.
- 9.7 The CORPORATION will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.
- 9.8 The Monitor will submit a written report to the designated Authority of CORPORATION within 8 to 10 weeks from the date of reference or intimation to him by the CORPORATION / TENDERER and, should the occasion arise, submit proposals for correcting problematic situations

IN WITNESS WHEREOF the Parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses :

(For and on behalf of Corporation)

(For and on behalf	of TENDERER)
WITNESSES :	
1	(signature, name and address)
2	(signature, name and address)
Place :	

Dated :

### **ANNEXURE-VI**

# DECLARATION

(On the letter head of firm)

Following are the near relative of the contractor are working as Officer or as an officer in any capacity Officer in the Central Warehousing Corporation or in the Ministry of Food, Consumer Affairs & Public Distribution, Govt. of India, New Delhi:

S/N	Department	Name of officer	Relation	Remarks
1	Central Warehousing Corporation			
2	Ministry of Food, Consumer Affairs & Public Distribution, Govt. of India, New Delhi:			

(Duly authorized signatory of the TENDERER)

### **CENTRAL WAREHOUSING CORPORATION**

(A Govt. of India Undertaking)

### **Contract Agreement For Item / Percentage Rates For Works**

This Agreement for execution of work	executed at	this day
of the, 20 by the Central	Warehousing	Corporation, New Delhi-16,
established under Warehousing Corporati	on Act, 1962	(hereinafter called 'the'
Corporation) and M/S		, a Partnership Firm,
consisting of partners namely (i)		
(iii) / Company registere	d under Compa	nies Act / Individual carrying
on business in the name and style of		(herein under
called "CONTRACTOR", which term shall me	ean and includ	e unless repugnant to the
context his / their Executors, Administrato	rs, Legal and	Personal Representatives),
Witnesseth as follows :		

WHEREAS the Corporation requires	to be	constructed at
		_ and whereas
the CONTRACTOR has agreed to execute the items of Work	Section	as per General
Conditions of Contract and Schedule of Work attached.		

AND WHEREAS the CONTRACTOR having agreed to execute the above referred items of Works / Section, it is hereby agreed that the terms and conditions of the contract, as enumerated in General Conditions of Contract (Broad Heading of which are given in the Index thereto), item of Works / Section as per Schedule of Work, the Work Order issued and Specification of the CPWD for the time being enforce, shall form an integral part sole repository of the terms & conditions of this contract.

In witness where of the aforementioned Parties to the contract have affixes their signatures.

Contractor	For and on behalf of the Corporation
Witness & Address	Witness & Address
1	1
Dated :	Dated :
2	2
Dated :	Dated :

### Form of Performance and Security Bank Guarantee Bond

In consideration of Central Warehousing Corporation (A Govt. of India Undertaking), Warehousing Bhawan, 4/1 Siri Institutional Area, August Kranti Marg, Hauz Khas, New Delhi - 110016 (hereinafter called "THE CORPORATION"), having offered to accept the Letter of Acceptance no. \_\_\_\_\_, dated \_\_/\_\_\_ and the terms & conditions of the proposed agreement between CORPORATION and {hereinafter called "THE said CONTRACTOR(s)"} for the work of (hereinafter called "THE said AGREEMENT") having agreed to production of an irrevocable Bank Guarantee for Rs. \_\_\_\_\_ (Rupees \_\_\_\_ only) as a Security/Guarantee from the CONTRACTOR(s) for compliance of his obligations in accordance with the terms & conditions in the said Agreement.

We \_\_\_\_\_ (*indicate name of the Bank*) \_\_\_\_\_\_ (hereinafter referred to as "the BANK") hereby undertake to pay CORPORATION an amount not exceeding Rs. \_\_\_\_\_\_ (Rupees \_\_\_\_\_\_ only), on demand by the CORPORATION.

- We \_\_\_\_\_ (indicate name of the Bank) \_\_\_\_\_\_ do hereby undertake to pay the amounts due and payable under Guarantee without any demure, merely on a demand from the CORPORATION, stating that the amount claimed is required to meet the recoveries due or likely to be due from the said CONTRACTOR(s). Any such demand made on the BANK shall be conclusive as regards the amount due and payable by the BANK under this Guarantee. However, our liability under this Guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_\_ (Rupees \_\_\_\_\_\_\_ only).
- 2. We, the said BANK further undertake to pay to the CORPORATION any money so demanded notwithstanding any dispute or disputes raised by the CONTRACTOR(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.

The payment so made by us under this bond, shall be valid discharge of our liability for payment thereunder, and the CONTRACTORS (s) shall have no claim against us for making such payment.

3. We \_\_\_\_\_\_ (indicate name of the Bank) \_\_\_\_\_\_\_ further agree that the Guarantee herein contained shall remain in and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the CORPORATION under or by virtue of the said agreement have been fully paid and its claim satisfied or discharged or till Engineer-in-Charge on behalf of the CORPORATION certified that the terms & conditions of the said agreement have been fully and properly carried out by the said CONTRACTOR(s) and accordingly discharges this Guarantee.

- 4. We \_\_\_\_\_\_ (indicate name of the Bank) \_\_\_\_\_\_\_ further agree with the Central Warehousing Corporation that the CORPORATION shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of the terms & conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Central Warehousing Corporation against the said CONTRACTOR(s) and to forbear or enforce any of the terms & conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension, being granted to the said CONTRACTOR(s) or for any forbearance, act if omission on the part of the Central Warehousing Corporation to the said CONTRACTOR(s) or by any such matter or things whatsoever which under the law relating to sureties would, but for this provision, have effect of so reliving us.
- 5. This guarantee will not be discharged due to the change in the constitution of the BANK or the CONTRACTOR(s).
- 6. We \_\_\_\_\_ (*indicate name of the Bank*) \_\_\_\_\_\_ lastly undertake not to revoke this Guarantee except with the previous consent of the Central Warehousing Corporation in writing.
- 7. This Guarantee shall be valid upto \_\_\_\_\_\_, unless extended on demand by Central Warehousing Corporation. Notwithstanding anything mentioned above, our liability against this Guarantee is restricted to Rs. \_\_\_\_\_\_ (Rs. \_\_\_\_\_\_ only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this Guarantee, all our liabilities under this Guarantee shall stand discharged.

Dated the \_\_\_\_\_ date of \_\_\_\_\_ for \_\_\_\_ (indicate name of the Bank) \_\_\_\_

### **ANNEXURE-IX**

## WORKS IN HAND

### (On letter head of firm)

The contractor shall submit list of works which are in hand (in-progress) in the following format –  $% \left( \left( {{{\left( {{{{}}}}} \right)}}}}\right.$ 

SL	Name of Work	Name & Particulars of Division /Department/Organisation Where Work is being Executed	Amount of Work (Rs.)	Status of Work in Progress	Remarks
1	2	3	4	5	6

(Duly authorized signatory of the TENDERER)

### **ANNEXURE-X**

### <u>AFFIDAVIT</u>

## (FOR THE TENDERS OF VALUE UPTO RS. 25 LAKH)

### *{TO BE SUBMITTED BY TENDERER ALONGWITH THE TENDER DOCUMENTS}*

(To be executed in presence of Public Notary on non-judicial stamp paper of the value of Rs. 100. The stamp paper has to be in the name of the tenderer.)

### UNDERTAKING

I, \_\_\_\_\_ R/o \_\_\_\_\_

do hereby solemnly affirm and declare

as under –

(a) That I am enlisted contractor of CPWD / Railways / MES / State PWDs / Other Govt. Organisations / Public Sector Undertakings and their Subsidiaries and his enlistment is valid for at least one year from the date of tender opening. The copy of valid enlistment certificate is enclosed herewith.

### OR

(b) that I have worked / working with CPWD / Railways / MES / State PWDs / Other Govt. Organisations/Public Sector Undertakings and their Subsidiaries during the last four financial years (i.e., 20\_-20\_, 20\_-20\_, 20\_-20\_ and 20\_-20\_) & current year (20\_-20\_) up to the date of tender submission. The copy of work order/work experience certificate/working certificate issued by above department/agency is enclosed herewith.

### OR

### OR

My one of the partner name..... is an unemployed Graduate Engineer/ Architect passed from ......(name of Indian university/ institution during the year......). Copy of degree certificate awarded by Institute is enclosed herewith.

(Duly authorized signatory of the TENDERER

## **ANNEXURE - XI**

## **OPERATIVE SCHEDULES**

### SCHEDULE 'A'

Schedule of Quantities

### SCHEDULE 'B'

Schedule of Materials to be issued to the Contractor -

SL	Description of Item	Quantity	Rates in Figures & Words at which the Material will be Charged to the Contractor	Place of Issue
1	2	3	4	5
	NIL			

### SCHEDULE 'C'

Tools & Plants to be hired to the Contractor -

SL	Description	Hire Charges per day	Place of Issue
1	2	3	4
NIL			

### SCHEDULE $\mathbf{\dot{D}'}$

Extra Schedule for Specific Requirements / Document for the Work, if any NIL

### SCHEDULE 'E'

Name of Work: Construction of 12528 MTC Godown along with Internal Roads, Drains and electrical Installation at CW, Gondia-II (Mah.)

Estir	nated Cost of Work:	Rs. 789.09 lakhs
(i)	Earnest Money :	Rs.15.79 lakhs (to be adjusted in Security Deposit)
(ii)	Performance Guarantee:	5% of Tendered Value
(iii)	Security Deposit:	5% of Tendered Value Security Deposit may be deposited by the Contractor before release of first on account bill in cash or Term Deposit Receipt issued from Scheduled Bank, or may be recovered at the rate of 10% of the bill amount till the full Security Deposit is recovered.

### SCHEDULE 'F'

GENERAL RULES & DIRECTIONS		Officer Inviting Tender		Chief Engineer
		Maximum Percentage for Quantity of Items of Work to be Executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3		25% in Superstructure 25% in foundation
Defin	itions:			
2(v)	Engineer-in-Charge			Executive Engineer
2(vi)	Accepti	Accepting Authority		As per DOP
2(viii)	Percent	age on cost of materials and	l labour	
	to cove	r all overheads and profits		15%
2(ix)	Standa	rd Schedule of Rates:	DSR 2021(Civil), 2018(Elect	t.), +/-cost index, MR
2(x)	Departr	ment	Central W	arehousing Corporation
Claus	e 1			
(1)	<b>T</b> :	llaural fam automination of r		

- Time allowed for submission of Performance Guarantee, Programme Chart (Time & (i) Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of issue of LOA: 15 days
- (ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above: 15 days

Clause 2 Authority for fixing compensation under Clause 2 : Chief Engineer.

#### Clause 2A Applicable

Clause 5 Number of days from the date of issue of Letter of Acceptance for reckoning date of start 15 days

Milestone(s) as per Table given below:

SL	Description of Milestone (Physical)	Time Allowed in Days (from Date of start)	Amount to be With-held in case of Non-achievement of Milestone
1.	Arrangement of material and T&P.	With in 15 days from LOA	
2.	Godown upto plinth levels	90 days	1 % of contract value
3.	Godown upto tie level & erection of trusses	210 days	1 % of contract value
4.	Completion of entire work.	9 months	

Time Allowed for Execution of Work: Nine months

### **Authority to Decide:**

- Extension of Time : Chief Engineer (i) : Chief Engineer
- Rescheduling of Milestones (ii)
- (iii) Shifting of Date of Start in case of delay in handing over of site: Chief Engineer

Part	Portion of Site	Description	Time Period for handing over reckoned from date of issue of Letter of Intent
Part A	Portion without any hindrance	Entire	
Part B	Portions with encumbrances		
Part C	Portions dependent on work of other agencies		

### Schedule of Handing Over of Site

### Schedule of Issue of Designs

Part	Portion of design	Description	Time Period for Issue of Design reckoned from date of issue of Letter of Intent
Part A	Portion already included in NIT		
Part B-1	Portions of Architectural Designs to be issued		
Part B-2	Portions of Civil Designs to be issued		
Part B-3	Portions of E&M Designs to be issued		

## **Clause 5.1** Schedule of rate of recovery for delay in submission of modified programme in terms of delay days

SL	Contract Value	Recovery (Rs.)
I.	Less than or equal to Rs. 1 crore	500
II.	More than Rs. 1 Crore but less than or equal to Rs. 5 crore	1000
III.	More than Rs. 5 Crore but less than or equal to Rs. 20 crore	2500
IV.	More than 20 crore	5000

Clause 5.2 & 5.3 Nature of Hindrance Register (either Physical or Electronic)

**Clause 7** Gross work to be done together with net payment after adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment, if work done payment is 5% or more of contract value Rs. \_\_\_\_\_

### Clause 8B

- (i) This shall not apply for maintenance or upgradation contracts, not involving any services
- (ii) For other works, the limit shall be as below:

SL	Contract Value	Limit (Rs.)
I.	Less than or equal to Rs. 1 crore	10,000
II.	More than Rs. 1 Crore but less than or equal to Rs. 5 crore	35,000
III.	More than Rs. 5 Crore but less than or equal to Rs. 20 crore	1,00,000

	IV.	More than 20 crore	2,00,000
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### Clause 10A

List of testing equipment to be provided by the contractor at site lab in addition of minimum specified in Technical condition of contract –

1)Screw Gauge, 2) Vernier calliper, 3) Measuring tape -5mtr.,10mtr. & 30mtr. 4)weighing machine 5) Setting of field laboratory with equipment such as sieve sets for coarse agg. & fine agg 6) equipment's for slump tests 7) compressive strength machine for paver block 8) measuring cylinder, 9)level machine.

### Clause 11

Specifications to be	CPWD Specifications Vol - I & II 2019 for Civil Works and CPWD
followed for execution	General Specifications for Electrical Works Part-I (Internal) 2013 &
of work	Part-II (External) 1994 with up-to-date Correction Slips or Latest
	CPWD Specifications in vogue on the date of tender publication.

### Clause 12

Type of Work : Project

12.2 & 12.3	Deviation Limit beyond which Clause 12.2 & 12.3 shall apply for building work	provisions Clause 12.2	oer of of of
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### Clause 16

Competent Authority for deciding reduced rates: Chief Engineer/Superintending Engineer

Clause 18 List of mandatory machinery, tools & plants to be deployed by contractor at site -

1. Concrete Mixer	2. Vibrator	3. Road roller
4	5	6
7	8	9

### Clause 19(C) - Safety Provisions

In case the contractor fails to make arrangement and provide necessary facilities, he shall be liable to pay a penalty of Rs.500/- per day for the period he does not arrange the safety provision.

### Clause 19(D)- Submission of statement

In case the contractor fails to submit the statement, he shall be liable to pay a penalty of Rs.500/per week for the period he does not submit the statement.

### Clause 19(G) – Default & breach of provisions.

In the event the contractor(s) committing a default or breach of any of the provision, he shall be liable to pay a penalty @ 0.05% for each day of default subject to a maximum of 5% of estimated cost.

### Clause 19(K) – Employment of skilled/semi-skilled workers.

In case the contractor fails to deploy the qualified tradesman, he shall be liable to attract penalty of Rs.700/-per day.

### Clause 25

Constitution of Dispute Redressal Committee (DRC) -

Chairman - Chief Engineer;

Member - DGM (Finance);

Member - DGM (G)

### Place of Arbitration - New Delhi

SL	Cost of Work <i>(Rs. Lakh)</i>	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical / Technical Representative)	Minimum Experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 36(i)
1.	1000 to 2000	(i) Project Manager with Degree in corresponding discipline of Engg.	Civil	Principal Technical Representative	10 Years	1	Rs. 30,000 pm
		(ii) Graduate Engineer		Technical Representative	5 Years	1	Rs. 25,000 pm
		(iii) Graduate Engineer Or		Project / Site Engineer and Project Planning /	2 Years	2	Rs. 15,000 pm
		Diploma Engineer		Billing Engineer	5 Years	2	Rs. 15,000 pm
2.	500 to 1000	(i) Graduate Engineer	Civil	Principal Technical Representative	5 Years	1	Rs. 25,000 pm
		(ii) Graduate Engineer		Project / Site Engineer	2 Years	2	Rs. 15,000 pm
		Or Diploma Engineer		And Engineer	5 Years	2	Rs. 15,000 pm
3.	Upto 500	Graduate Engineer	rned line	Principal Technical Representative	2 Years	1	Rs. 15,000 pm
		Or Diploma Engineer	Concerned Discipline	Project Planning / Site / Billing Engineer	5 Years	1	Rs. 15,000 pm

Assistant Engineers retired from Govt. Services that are holding Diploma will be treated at par with Graduate Engineers.

Diploma holder with minimum 10 years relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

### Clause 38

- (I) (a) Schedule / Statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2021 printed by CPWD
- (II) Variations permissible on theoretical quantities:
  - (a) Cement For works with estimated cost put to tender not more than Rs. 5 lakh +/- 3%
     For works with estimated cost put to tender more than Rs. 5 lakh +/- 2%
     For works with estimated cost put to
  - (b) Bitumen All Works : 2.5% plus & only & nil on minus side
  - (c) Steel Reinforcement and structural steel sections for each diameter, section and category \$+/-2%\$
  - (d) All other materials

### **RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION**

SL	Description of Item Rates at which recovery shall be ma the Contractor		•
		Excess Beyond Permissible Variation	Less use Beyond Permissible Variation
1.	Cement	-	Rs. 12800/- per
			tonne
2.	Steel reinforcement	-	Rs. 11564/- per
			quintal
3.	Structural Sections	-	Rs. 11682/- per
			quintal
4.	Bitumen	-	Rs. 60500/- per
			tonne
5.	Bitumen issued free	-	NA
6.	Bitumen issued at stipulated fixed price	-	NA

Nil

## **CHAPTER-II**

## SECTION – IV (SPECIAL CONDITIONS OF CONTRACT)

## SPECIAL CONDITIONS OF CONTRACT

### Scope of Work includes:

### 1.0 General

- 1.1 The contractor will engage the experienced **Technical representatives** of concerned discipline on the project, who should have full knowledge of work and are capable of getting executed the work and removing defects, as pointed out by the Engineer-in-charge. Deployment of the technical representatives and recovery, in case the contractor fails to do so, shall be in accordance with the **Schedule-F**.
- 1.2 The contractor shall procure all construction materials well in advance, so that there is sufficient time for testing of materials and clearance of the same before incorporation in the works. In case, untested material is used by the contractor and later, same is found not meeting to specification requirement, then the executed work with said material shall be dismantled and re-executed at the cost of contractor.
- 1.3 Wherever there is a reference to I.S. Code/Specifications or any other Code, it shall refer to latest Code with Correction Slips, as in vogue on the date of tendering.
- 1.4 The contractor shall make his programme for completion of work in consultation with the Engineer-in-Charge, keeping in view the availability of materials and unavoidable hindrance. No claim, whatsoever will be entertained due to delay on this account.
- 1.5 The contractor shall take levels and record them in prescribed Level Book before commencement of work. Levels taken shall be got verified from Engineer-in-Charge or his representative.
- 1.6 Work shall be carried out in a manner complying in all respects with the requirements of prevalent by-laws of the local Municipality/Municipal Corporation/Industrial development board/development authority as the case may be.
- 1.7 Rates quoted by the Tenderers/Contractors shall be inclusive of GST or all applicable taxes, Building and Other Construction Workers Welfare Cess, Levies, Duties on materials or services and on complete works in respect of this contract and shall be payable by the contactor. Central Warehousing Corporation will not entertain any claim, whatsoever in this respect. This aspect should be included in the rates quoted by the contractor.
- 1.7.1 However, contractor is required to submit Tax Invoice as per rules under GST law.
- 1.7.2 CWC shall deduct GST at source at applicable rates in case transactions under this contract are liable to GST deduction at source.
- 1.7.3 Under GST regime, the contractor is required to correctly and timely disclose the details of output supply to GST as per GST rules in his GST return. Non-compliance would result in mismatching of claims and denial of input tax credit to CWC. Notwithstanding, anything contained in the agreement/contract in case of such default by the contractor, the amount of input tax credit, denied in GST along with interest and penalty shall be recovered from the contractor.
- 1.7.4 Unless expressly stated otherwise, where any identifiable cost saving are realized during the currency of contract by virtue of deduction :
  - (i) In rate of tax on supply of goods and services.
  - (ii) Any benefit of input tax credit accrued to the contractor, contactor shall pass on such benefit to CWC by way of commensurate reduction in prices.

### **1.0** Period Of Completion

Time is the essence of the contract. The work is required to be completed within stipulated time schedule to be reckoned from the **15<sup>th</sup> day from date of issue of Letter of Acceptance.** 

- 2.1 The contractor shall stick to the final completion date and will be liable to action for any delay due to contractor as per Conditions of Contract for stage as well as overall completion of the work.
- 2.2 In case of termination of contract due to default by contractor, available EMD, PG & Security Deposit with the department against the said contract will be forfeited. Contractor will be debarred from participating in future tenders of Corporation called for Engineering works for next one year from the date of debarring.

### 2.0 Delay or Deferments

- 3.1 Where the Contractor has to work alongwith other agencies in and around the area allotted for his works, he shall execute all his works in complete coordination and cooperation with all such agencies, so that at no time either his work or the works of other agencies is stopped or delayed. In case of any dispute in this regard, decision of CWC or their representative will be final and binding on the Contractor. No claim for idle labour, plant and machinery, under any circumstances will be entertained by CWC.
- 3.2 During execution of the work, this Warehouse will be operational. Contractor has to execute all works in complete coordination and cooperation with all activities confined to the area within the scope of this work, so as not to affect the operation of Warehouse under any circumstances. In case of any dispute in this regard, decision of CWC or their representative will be final and binding on the contractor. Contractor shall also note that work shall progress in phased manner as per operational requirement of CWC, if any.
- 3.3 It is understood that Contractor has assessed CWC operations at site of work and shall plan the deployment of resources in such a way that work is completed within stipulated time schedule despite running transactions/ operations of CWC.

### 3.0 Measurements for Works/Record Measurements

- 4.1 The contractor shall ensure that measurements for all works, which may be partially or wholly hidden in the course of construction are duly recorded in the Measurement book before that portion of work becomes inaccessible for measurement.
- 4.2 For works running/on-account payments can be made on the basis of detailed measurements recorded in the measurement books for the actual work executed. Bills will be submitted by the contractor as per Bill Proforma enclosed and the date of submission of bills will be considered as the date of acceptance of bill / signing of bill, which is to be recommended & forwarded by the Engineer-in-Charge concerned for arranging payment.

### 4.0 Payment to be Made by CWC

- 5.1 The price variation Clauses 10B(ii), (iii), (iv), 10C, 10CA and 10CC under GCC Clauses of CPWD Contract will not be applicable under this contract and any claim by the contractor in this regard will not be entertained.
- 5.2 The contractor will submit running account/final bill of value not less than **5% value of the contract amount** towards the work done (excluding secured advance, if any).
- 5.3 Following are the mandatory documents for payment of Running Account Bills.
  - copy of paid challans of PF/ESI,
  - Royalty (if applicable),
  - o paid bills of water & electricity,
  - copy of Workmen Compensation Policy,

- copy of Labour License,
- Theoretical Consumption Statement of cement, steel & bitumen (if used in the work),
- Invoice of Cement, Paint, Floor Hardener , Steel & bitumen (as brought for use at Site )
- Test reports (Mandatory Items as per field quality plan)
- Proof of deployment of Site Engineer etc.

Above documents shall be required at the time of 1<sup>st</sup> RA bill & final bill.

For intermediate RA bills, above documents, if not available due to reasons stated by contractor with undertaking to comply and submit, may be relaxed by Engineer-in-charge. However, contractor must comply the statutory and other provisions. Contractor shall indemnify the CWC against all losses / damages due to non-compliance of any of above provisions at intermediate stage, if any.

- 5.4 Income tax as well as Goods and Service Tax or any other Tax / Levy, as applicable by the Central / State Govt., shall be recovered on the gross amount of each bill.
- 5.5 To enhance the transparency in processing and settlement of bills /Invoices, Central Warehousing Corporation have introduced a bill tracking system for its contractors or vendors. The contractor will have to register on CWC BTS (Bill tracking system). His registration will enable the contactor and CWC officials to see the bill status with dates which is under process of payment through various stages of processing of bills, the stage at which it is lying, the amount for which it is passed and other details. The BTS system includes history feature also so that a contractor can see the history of the bills submitted by them. Contractor will register to BTS through following link. He may take the assistance of the CWC officials to ensure his registration on BTS.

Link : www.cwceportal.com/bts .

Contractor already registered, shall be provided with login id and password, on their registered email accounts which can be changed by contractor on 1<sup>st</sup> login to ensure the safety of their account.

Uploading of Invoices/bills: Contractor will submit his invoice for payment through BTS only

- a) In case the invoices/bills are digitally signed, as per Govt. guidelines, the vendor shall not be required to submit the hard copy of invoices/bills. The vendor can directly submit the digitally signed invoice along with the supporting documents by selecting the concerned Region/ Corporate Office & the concerned Division, for which invoice is intended. However, the supporting documents as per the requirement of contract/work order/purchase order etc. to be submitted in hard copy also.
- b) In case of ink signed invoices/bills, the vendor shall be required to upload the invoice/bill including supporting documents in BTS and also submit the hard copy of the original Invoice/bill and supporting documents.
- c) The dealing assistant/officials of CWC upon examining the invoice and supporting documents will take action on the invoice as per contract terms which can be returned to contractor If (a)the invoice is wrong/ calculation mistake/ wrong GSTIN etc

(b) If the uploaded invoice by the vendor is not digitally signed and digital signatures cannot be verified online.

### 6.0 Testing of Materials

6.1 Contractor will be required to establish a field laboratory for new works of Building Construction or Road /Floor up gradation works or in all such composite works containing concrete. Setting of field laboratory for the new works of value more than Rs.2 crore is a mandatory requirement. Contractor shall be responsible for setting up laboratory facilities, equipments and arranging technical manpower at his cost, as directed by the Engineer-in-charge for conducting site/field test. All the equipments shall be BIS approved makes and

will be got checked & calibrated regularly. All equipments of the laboratory shall be kept in good working conditions.

If contractor fails to provide field laboratory for new works within one month of commencement of work, shall attract a penalty of Rs. 25,000 per month, recoverable from the running bills. In all routine tests, which can normally be done in the field laboratory/in situ, testing charges will be borne by the contractor. In case contractor fails to conduct field laboratory test for new works, all required tests shall be carried out in the reputed / approved outside laboratory. So far as conducting required test for upgradation / repairing works, same would be carried out in the reputed/approved outside laboratory. Payment of testing charges of such tests will be borne by the contractor in both the cases.

- 6.2 Testing and acceptance criteria for cement, steel and any other materials, supplied by contractor should be as per BIS codes/Technical Specification or as decided by Engineer-incharge as per stipulated testing frequency given in enclosed list (field quality Plan) or CPWD Specifications.
- 6.3 Sample of material for testing will be supplied free of cost by the contractor, including its transportation to the approved test houses/laboratory, as directed by the Engineer-in-Charge or inspecting officials.
- 6.4 For outside testing, test of materials and stipulated samples shall be carried out by one of the following laboratories/tests houses (1) IIT, (2) NIT, (3) National Test Houses, (4) National Council of Cement & Building Material, (5) Govt. Engg. College/National Accreditation Board Approved Lab (NABL), as per decision of the Project-in-charge/Site Engineer. Testing charges shall be borne by the contractor.
- 6.5 All Routine tests on various materials shall be carried out as per the field quality plan -List of Mandatory Tests (enclosed) at the cost of the contractor. Wherever it is not specified, it will be carried out as per decision of Site Engineer, which will be final and binding on the contractor.
- 6.6 In addition to the tests required under above clauses thereof, the Engineer or his representative may order tests to be carried out by an independent person appointed by him at such place or in such laboratory, as he may determine in accordance with the appropriate Clauses of relevant Standard Specifications and cost of such tests shall be borne by the contractor.
- 6.7 Testing record shall be maintained as per standard Testing Performa, enclosed in tender document for proper testing and their record by the contractor.
- 6.8 In case, test results indicate that the cement, steel, bitumen or any other material brought or arranged by the contractor for incorporation in work does not conform to the relevant BIS Codes, the same shall stand rejected and shall be removed from site by the contractor at his own cost within a week's time of written order from the Engineer-in-charge to do so.

### 7.0 **Plant & Machinery Required for the Work**

- 7.1 It will be responsibility of the Contractor to arrange all plants & machinery, trucks, vibratory, Road roller etc. as required by him for execution of works.
- 7.2 Contractor will also arrange for getting permission of such plant & machinery, if required from local or other concerned authorities for use as well as for their transportation to site.
- 7.3 All expenditure incurred in this connection will be borne by the Contractor.

### 8.0 Arrangement of Water for Execution of Works

8.1 Contractor will have to make his own arrangements for obtaining water to be used for execution of the works or CWC may supply water, if available for execution of work as per provision of Clause 30 of General Conditions of Contract. However, CWC may allow labourers to use drinking water facility of the Warehouse, if necessary.

8.2 CWC may permit to contractor to install bore-well at site at his own cost for execution of work. In this case contractor will ensure compliance of statutory requirements of the regulatory authority. After work completion, he shall restore the ground to its original condition after the bore-well is dismantled as per Clause 30 A of General conditions of Contract.

### 9.0 Arrangements for Electric Connection, Lighting & Other Purpose

- 9.1 If for reasons of urgency to expedite or complete the work within time, work has to be executed at night, contractor shall make his own arrangement for illuminating the site. Nothing extra will be paid for doing works at night.
- 9.2 Contractor will have to make his own arrangements for arranging electricity, if the same is required for illumination purposes or for running of any plant or machinery and nothing extra will be paid for the same.
- 9.3 CWC may allow electric power, if available on actual electric energy consumption by putting separate electric energy meter with due permission of Site Engineer.

**10.0 Maintenance after Completion:** All works executed under this agreement shall be maintained by the contractor at his own cost during the maintenance period of as mentioned below. This period shall be reckoned from the actual date of completion or during defect liability period as per Clause 17.

- 12 Months in case of all works executed for Building or other infrastructure except CC Floor, metal Roof Sheet
- 36 Months in case of CC Floor, metal roof sheets, Paved/Concrete /Bituminous Road.

### 11.0 Miscellaneous

- 11.1 Customary standards/local traditions will not be the criteria for the standards. All works shall be up to the CPWD standards and as ordered by Engineer-in-charge and where any doubt may exist, specifications, as given in CPWD's Specifications Vol. I & II should be followed. Should there be any difference in the particular specifications for individual items of work and the description of the item as given in the schedule of quantities, the latter shall prevail. In case of items not covered by the general specifications referred to above or particular specifications attached, reference shall be made to the appropriate B.I.S. Code and decision of the Engineer-in-Charge shall be final and binding on the contractor.
- 11.2 CWC may provide space for setting up Construction Plants, T & P, Site office, Laboratory, Storage of material, Labour etc. free of cost, if the surplus land is available and with prior permission from the Engineer-in-charge during construction period of the project.
- 11.3 No areas outside work site/depot will be made available to the contractor for storage of construction materials, site office construction etc. and if required, contractor will make his own arrangement for the same by personal negotiation with the owners at his own cost.
- 11.4 Rates for different items of work shall be for all heights and depths, except where otherwise specified.
- 11.5 Contractor shall quote his rate taking into account the restrictions due to warehouse operation, if any on entry/exist of vehicles and labour to/from the site of work, as laid down by Central Warehousing Corporation and other Govt. authorities. If any entry fee/other charges are levied by any authority on entry of the vehicle/material/labour, same shall be paid by the contractor. No claim or compensation on this account shall be entertained from the contractor.
- 11.6 Contractor must take all precautions to avoid accidents by exhibiting day and night the necessary caution boards, speed limit boards, red flags / red lights and providing barriers.

He shall be responsible for all damages and accidents caused due to negligence on his part. No hindrance shall be caused to traffic during execution of work.

- 11.7 Any damage done by the contractor or his work-men to any existing work during the course of execution of the work, tendered for, shall be made good by him at his own cost.
- 11.8 Contractor shall maintain in good condition all works executed till the completion of entire work, allotted to the contractor.
- 11.9 Contactor shall clean the site thoroughly of all rubbish etc. left out of his materials on completion of the work and roughly dress the site around the building line to the satisfaction of the Engineer-in-Charge.

### 12.0 Handling of Materials

- 12.1 No lead is payable on water for works done and scheduled under any section of DSR or for the work done under any Non-Scheduled Item (NSI) of DSR.
- 12.2 If food grains / goods stored in Warehouse are lost, stolen or damaged during execution of construction work by the contractor or his labourers, cost of the same @ twice of the prevailing market rate will be recovered from the Contractor's dues and Contractor will have no claim, whatsoever on this account.
- 12.3 During execution of work, if CWC materials (cables, pipelines, drains etc.) are damaged, same will be set right by contractor at his cost within a reasonable time, as decided by the Engineer-in-charge. In case contractor fails to rectify the damages caused during construction/under their custody, cost of the damaged material shall be recovered from the contractor @ twice of prevailing market rates from the contractor dues/bills due with CWC under any contract and contractor will not have any claim whatsoever on this account.
- 12.4 The contractor shall consult the Engineer-in-Charge in writing regarding collection and stacking of materials required for the work. He should not stack materials at any place other than those approved by the Engineer-in-Charge. No excavated earth or building material shall be stacked on area, where other buildings, roads, services or compound wall are to be constructed.

### 13.0 Adherence to Labour Law and Regulations

The Contractors, who are working in the establishments through Contract Labour and/or employing labour themselves directly, should get themselves registered with and obtain a license from the Assistant Labour Commissioner concerned, as required under Contract Labour (Regulation and Abolition) Act 1971 and produce the same to Engineer-in-charge, in compliance to above and the Conditions of Contract. The copy of application for obtaining labour license may be submitted to Engineer-in-Charge within the period as specified in Schedule 'F' against clause 1 of GCC.

### 14.0 Employment of Labour from Scarcity Area

If the Government declares a state of scarcity or famine to exist in any village situated within 15 kms of the work, piece worker/contractor shall employ upon such parts of the works as unskilled labour any person found suitable and certified to him by the Engineer-in-charge or by any person to whom the Engineer-in-charge may have delegated in writing, to be in need to relief and shall be bound to pay to such person, the wages not below the minimum, which Government may have fixed in this behalf. Any dispute which may arise in connection with the implementation of this Clause shall be decided by the CWC, whose decision shall be final and binding on the piece worker/contractor.

### 15.0 Provision of Altered / Additional Items

If the altered/additional work, required to be executed as per CWC's requirements, for which there are no established rates in Schedule of Rates; the same shall be payable as per provisions stated hereunder –

- (a) As far as possible the rates for such items shall be derived from Delhi schedule of rates as mentioned in Schedule F on pro-rata basis.
- (b) If direct working of rates from DSR is not possible, the contractor shall be paid on the basis as under :
  - (i) Material, labour either or both: Reasonable cost of materials plus reasonable cost of labour inclusive of tools, plants, machinery and plus % so derived cost, to cover contractor profit, supervision, overheads, establishments, etc.as mentioned in Schedule F against clause 2(x) of GCC(definition).
  - (ii) Engineer-in-Charge's decision regarding reasonable labour cost and material consumption/cost shall be final and binding on contractor.
- (c) Rates can also be derived based on the Last Approved Rate (LAR) of similar items of same or nearby area.

### **16.0** Completion Drawings

- 16.1 Completion drawings on as built basis of all the completed works for showing the layout of the area with dimensions, slopes and details of building, reinforcements used, pavement, drain, cable trenches, machine foundations etc. shall be prepared by the contractor at his own cost.
- 16.2 Contractor will supply three copies of completion drawings alongwith soft copy in CD / Pendrive with the final bill. In case, contractor does not submit the completion drawing within 30 days of completion of the work or alongwith submission of final bill (whichever is later), he shall be liable to pay a sum, as prescribed in Schedule F against clause 8(a) of GCC and in this respect, decision of the Engineer-in-charge shall be final and binding on the contractor.

### 17.0 Storage of Inflammable Articles

No inflammable materials, such as petroleum, oil etc. within the meaning of the Indian Petroleum Act and Indian Explosives Act shall be stored at site or adjacent land, until approval of the CWC and necessary license under the Act has been obtained by the contractor. All due precautions, as required under the Acts shall be taken by contractor.

### 18.0 Night Work

Contractor shall plan and deploy his all resources to complete the work within time as per agreed program of completion. If the CWC is, however, satisfied that the work is not likely to be completed in time except by resorting to night work; by special order, the contractor would be required to carry out the work even at night, without conferring any right on the contractor for claiming for extra payment for introducing night working. The decision of the Site Engineer in this regard will be final and binding on the contractor.

### **19.0** Notice to Public Bodies

Contractor shall give to the Municipality, Police and other authorities, all notices that may be required by the law and obtain all requisite licenses for temporary obstructions, enclosures and pay all fees, taxes and charges, which may be leviable on account of his own operations in executing the contract. He should make good any damage to adjoining premises, whether public or private and provide & maintain any light etc. required at night and no extra payment will be made on this account.

### 20.0 Plea of Custom

The plea of 'Custom' prevailing will not, on any account, be permitted as an excuse for infringement of any of the conditions of contract or specifications.

### 21.0 Care of Staff

No guarantee will be provided by CWC for accommodation of the contractor or any of his staff employed on the work. The contractor may, however, be allowed to erect labour camps

for housing the labour at or near the site of work on available CWC's land. The contractor shall at his own cost make all necessary and adequate arrangements for importation, feeding and preservation of the hygiene of his staff. Contractor shall permit inspection of the Engineer-in-Charge or his assistant or any official of the CWC at all times for all sanitary arrangements, made by him. If the contractor fails to make adequate medical and sanitary arrangements, these will be provided by the CWC and cost thereof will be recovered from the contractor.

### 22.0 First Aid

The contractor shall maintain in a readily accessible place First Aid Appliance including an adequate supply of sterilized dressing & sterilized cotton wool. Appliances shall be placed under charge of responsible person who shall be readily available during working hours.

### 23.0 Trespass

The contractor shall, at all times, be responsible for any damages or trespass, committed by his agents and workmen in carrying out the work, unless such trespass is authorized by the Engineer at site.

### 24.0 Damage from Accidents or Floods or Tides

- 24.1 The contractor shall take all precautions against damages from accidents, floods or tides. No compensation will be payable by CWC to the contractor for his tools, plants, materials, machines and other equipment lost or damaged by any cause, whatsoever. The contractor shall be liable to make good the damages to any structure or part of structure, plant or material of every description belonging to the CWC administration, lost or damaged by any cause during the course of contractor's work.
- 24.2 The CWC will not be liable to pay to the contractor any charges for rectification or repairs to any damages, which may have occurred from any cause whatsoever, to any part of the new structures during construction. No claims in this regard will be arbitrable.
- 24.3 The contractor shall bail out rain water collected during execution of work from the excavated trenches at his own cost. Nothing extra shall be payable on this account.

### 25.0 Use of CWC Materials Secured with Government Assistance

Where any raw materials for the execution of the contract are procured with the assistance of Govt. either by issue from Govt., stocks or purchases under arrangements made or permit(s) or license(s) issued by the Govt., the contractor shall hold the materials as trustee for the Govt. and use such materials economically and solely for the purpose of contract against which they are issued and not dispose them off without permission of the Govt. and return, if required by the Govt. all surplus or unserviceable materials that may be left by him after completion of the contract or at its termination for any reason whatsoever on his being paid such price as Govt. may fix with due regard to the condition of the materials. Freight charges for the return of the material, according to the direction of the purchaser, shall be borne by the contractor; in the event of contract being cancelled for any default on his part, decision of the Govt. shall be final and conclusive.

### 26.0 Insurance for Works, Persons and Property

### 26.1 Insurance for Works

The contractor at the scheduled date of start of work, without limiting his obligations and responsibilities, shall insure the works at his own cost and keep them insured until the virtual completion of the contract against all Acts of God including Fire, Theft, Riots, War, Floods etc. with an Insurance Agency, approved by Insurance Regulatory & Development Authority (IRDA) in the joint names of the Employer and Contractor (name of the former being placed first in the policy) for the minimum thirty percent amount of the originally awarded contract value irrespective of revised / modified contract value later on. Such policy shall cover the

property of the CWC and fees for assessing the claim and in connection with his services generally therein and shall not cover any property of the Contractor or of any sub-contractor.

The Contractor shall deposit the policy and receipt for the premiums with the CWC within 30 days from the date of signing the contract or commencement of execution of work, whichever is earlier, or unless otherwise instructed by the CWC. In default of the Contractor insuring as provided above, the CWC on his behalf may so insure and may deduct the premiums paid from any moneys due or which may become due to the Contractor. The Contractor shall, as soon as any claim under the policy is settled or the works reinstated by the Insurance Office should elect to do so, proceed with all due diligence with the completion of works in the same manner as though the misfortune/ accident had not occurred and in all respects under the same conditions of contract. The Contractor in case of rebuilding or reinstatement after accident, shall be entitled to such extension of time for completion, as the CWC deems fit.

### 26.2 Insurance in Respect of Damages to Persons and Property

(i) The Contractor shall be responsible for all injury to persons, animals or things and for all structural & decorative damage to property which may arise from the operation or neglect of himself or of any approved sub-contractors or employees, whether such injuries or damage arise from carelessness, accident or any other cause whatsoever in any way connected with carrying out of this contract. The Clause shall be held to include any damage to buildings, whether immediately adjacent or otherwise and damage to road, streets, footpaths, bridges and works forming the subject of this contract by frost or other inclemency of the weather.

The Contractor shall indemnify the CWC and hold him harmless in respect of all and any expenses arising from any such injury or damage to persons or property, as aforesaid and in respect of any claims made in respect of injury or damage under any Acts of Govt. or otherwise and also in respect of any award of compensation of damage consequent upon such claims.

- (ii) The Contractor shall reinstate all damages of every sort so as to deliver up the whole of the contract works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damage to the property of third parties.
- (iii) The Contractor shall indemnify the CWC against all claims which may be made against the CWC by the member of the public or other third party in respect of works in consequence thereof and shall, at his own expense, arrange to effect and maintain, until the virtual completion of the contract, an Insurance Policy with Insurance Agency approved by IRDA in the joint names of the CWC and Contractor against such risks and deposit such policy or policies with the CWC from time to time during the currency of this contract.

The contractor shall similarly indemnify the CWC against all claims which may be made upon the CWC whether under the Workman's Compensation Act or any other statuette in force during the currency of this contract or at common law in respect of any employee of the Contractor or any sub-contractor and shall at his own expense affect and maintain with an approved office a policy of insurance in the joint names of the CWC and the Contractor against such risks and deposit such policy or policies with the CWC from time to time during the currency of the Contract.

The Contractor shall be responsible for anything which may be excluded from the Insurance policies above referred to and also for all other damages to any property arising out of an incidental to the negligent or defective carrying out of this contract. He shall also indemnify the CWC in respect of any costs, charges or expenses arising out of any claim re-proceedings and also in respect of any award of or compensation of damages arising there from.

(iv) The Employer shall be at liberty and is empowered to deduct the amount of any damage, compensation costs, charges and expenses arising or accruing from or in respect of any such claim or damage of any sum or sums due to or become due to the Contractor including the Security Deposit. (v) If the Contractor fails to comply with the terms of these conditions, the Employer may insure the works and may deduct amount of the premiums paid from any money that may be or become payable to the Contractor or may at the option, do not release running payment to Contractor until Contractor shall have complied with terms of this condition.

### 27.0 Any Other Insurance Required Under Law or Regulations or by CWC

Contractor shall also carry and maintain any other insurance which he may be required under law or regulation from time to time. He shall also carry and maintain any other insurance which may be required by CWC.

### 28.0 Site Office

Contractor shall have to provide temporary site office with requisite furniture & appliances and godown for storing/stacking construction materials at their own cost for which no extra payment will be made.

### 29.0 PF Compliance

It will be responsibility of the contractor to obtain separate code/identification No. for contractor's deposit of PF dues, if applicable with concerned authority directly. Copy of PF Registration / Code no. alongwith copy of PF paid Challans, shall be submitted alongwith Running Account Bills or Final Bill.

### **30.0 Recoveries / Withholding of Amount**

- 30.1 In case of any technical deficiencies, lapses on account of non-compliance of PF/ESI, Insurance (WC Policies), Labour License or any other reasons not covered in any Clause of tender documents etc. are noticed by the Engineer-in-charge/CWC Vigilance Deptt./CTE Organization, then a sum, as recommended or decided by Project in-charge/Site Engineer may be withheld, till rectification/remedy/compliance of the deficiencies.
- 30.2 Recoveries, if any, on account of uncovered period of insurance (WC Policies), defective work, loss to CWC or any other liability not fulfilled by contractor etc., shall be affected from the contractor's bill / any other due(s) amount (i.e. Final Bill, Security Deposit & Performance Bank Guarantee etc.).

### **31.0** Material Obtained from the Dismantlement

The contractors, in the course of their own work, should understand that all materials, e.g. stone and other materials obtained in the work of dismantling and excavation etc. will be considered property of Central Warehousing Corporation and would be issued to the contractor (if they require the same for use in the work) at the rates approved by the Engineer-in-Charge, as the case may be.

## 32.0 A bidder shall be debarred if he has been convicted of an offence or breach the contract as below:

- if Bidder has been convicted of an offence

   (a) under the Prevention of Corruption Act, 1988; or
   (b) the Indian Penal Code or any other law for the time being in force, for causing any loss of life or property or causing a threat to public health as part of execution of a contract.

   If Bidder breaches the Code of Integrity.
- 2. If Bidder breaches the Code of Integrity.
- 3. In the event of any of the documents submitted by Bidder along with their bid is found fabricated/tempered/forged/altered/manipulated/false during the evaluation of bid or later at any stage even after award of work.
- 4. In case the bidder fails to submit the requisite Performance Guarantee even after the period specified in Clause 1 of Schedule 'F' from the date of issue of Letter of Acceptance (LOA).

- In case the contract is terminated due to default in performance under the provision of contract. NOTE:
- A bidder debarred under sub-section (1) or any successor of the bidder shall not be eligible to participate in future tender of Central warehousing corporation for three years commencing from the date of debarment.
- A bidder debarred under sub-section (2) or any successor of the bidder shall not be eligible to participate in future tender of Central warehousing corporation for two years commencing from the date of debarment.
- A bidder debarred under sub-section (3) or any successor of the bidder shall not be eligible to participate in future tender of Central warehousing corporation for Five years commencing from the date of debarment.
- A bidder debarred under sub-section (4) & (5) or any successor of the bidder shall not be eligible to participate in future tender of Engineering works of Central warehousing corporation for One year commencing from the date of debarment.

The bidder under provision of sub section 1 , 2 & 3 shall not be debarred unless such bidder has been given a reasonable opportunity to represent against such debarment

## **Section-V**

## **CWC's GENERAL CONDITIONS OF CONTRACT**

### **CENTRAL WAREHOUSING CORPORATION**

(A Govt. of India Undertaking)

### **General Rules & Directions**

General Rules & Directions	of in	of invitation to tender pasted in public places and signed by the officer inviting tender or by publication in Newspapers or posted on website		
	Th su th te Gu pe sp re idu	the case may be. is form will state the work to be carried out, as well as the date for bmitting and opening tenders and the time allowed for carrying out e work, also the amount of Earnest Money to be deposited with the nder and amount of the Security Deposit and Performance arantee to be deposited by the successful tenderer and the rcentage, if any, to be deducted from bills. Copies of the ecifications, designs and drawings and any other documents quired in connection with the work signed for the purpose of entification by the officer inviting tender shall also be open for spection by the contractor at the office of officer inviting tender ring office hours.		
	sig ab ho at	the event of the tender being submitted by a Firm, it must be ned separately by each partner thereof or in the event of the sence of any partner, it must be signed on his behalf by a person lding a power of attorney authorizing him to do so, such power of orney to be produced with the tender and it must disclose that the m is duly registered under the Indian Partnership Act, 1932.		
	Fii co re or	ceipts for payment made on account of work, when executed by a m, must also be signed by all the partners, except where ntractors are described in their tender as a Firm, in which case the ceipts must be signed in the name of the Firm by one of the partners by some other person having due authority to give effectual ceipts for the Firm.		
	pu su	e bidder, who have changed the name of firm/merged/acquired/ rchased any firm whose credential papers are being used/ bmitted for qualification of tender, should submit the following cuments in this regard :		
	(ä	) The copy of certificate of Incorporation of Firm or Registration certificate of Firm.		
	(1	) Copy of Memorandum and Articles of Association of Firm.		
	(0	) Copy of Board Resolution regarding change of name of Firm/ take over/merger of the Firm.		
	(0	<ol> <li>Copy of sale deed/Memorandum of Understanding for Purchase/ sale/merger of Firm alongwith assets and liabilities.</li> </ol>		
	(6	) Copy of PF Registration and PAN Card.		
	(f	) Affidavit regarding change of name of Firm alongwith all assets and liabilities, if any.		
	(9	) Affidavit regarding closure of business of old Firm/merged Firm.		

	(h) Copy of Certificate of CA/Company Secretary regarding Sale/ Merger/Change of name of Firm.
	In absence of the complete documentary evidence, such offer shall be summarily rejected.
Applicable for Item Rate Tender only	4. The rate(s) must be quoted in decimal coinage. Amounts must be quoted in full rupees by ignoring fifty paisa and considering more than fifty paisa as rupee one.
	In case the lowest tendered amount (worked out on the basis of quoted rate of Individual items) of two or more contractors is same, then such lowest contractors may be asked to submit sealed revised offer quoting rate of each item of the schedule of quantity for all sub sections/sub heads, as the case may be, but the revised quoted rate of each item of schedule of quantity for all sub sections/sub heads should not be higher than their respective original rate quoted already at the time of submission of tender. The lowest tender shall be decided on the basis of revised offer.
	If the revised tendered amount (worked out on the basis of quoted rate of individual items) of two or more contractors received in revised offer is again found to be equal, then the lowest tender, among such contractors, shall be decided by draw of lots in the presence of Tender Evaluation Committee and the lowest contractors those have quoted equal amount of their tenders.
	In case of any such lowest contractor in his revised offer quotes rate of any item more than their respective original rate quoted already at the time of submission of tender, then such revised offer shall be treated invalid. Such case of revised offer of the lowest contractor or case of refusal to submit revised offer by the lowest contractor shall be treated as withdrawal of his tender before acceptance and 50% of his earnest money shall be forfeited.
	In case all the lowest contractors those have same tendered amount (as a result of their quoted rate of individual items), refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each lowest contractor.
	Contractor, whose earnest money is forfeited because of non- submission of revised offer, or quoting higher revised rate(s) of any item(s) than their respective original rate quoted already at the time of submission of his tender, shall not be allowed to participate in the retendering process of the work.
Applicable for Percentage Rate Tender only	4A. In case of Percentage Rate Tenders, contractor shall fill up the usual printed form, stating at what percentage below/above (in figures) the total estimated cost given in Schedule of Quantities at <b>Schedule-A</b> , he will be willing to execute the work. The tender submitted shall be treated as invalid if :
	(i) The contractor does not quote percentage above/below on the total amount of tender or any section/sub head of the tender.
	(ii) The percentage above/below is not quoted on the total amount of tender or any section/sub head of the tender.
	Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying

		out the work, or which contain any other conditions of any sort including conditional rebates, will be summarily rejected.
	4B.	In case the lowest tendered amount (estimated cost + amount worked on the basis of percentage above/below) of two or more contractors is same, such lowest contractors will be asked to submit sealed revised offer in the form of letter mentioning percentage above/below on estimated cost of tender including all sub sections/ sub heads as the case may be, but the revised percentage quoted above/below on tendered cost or on each sub section/sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers.
		In case any of such contractor refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and 50% of earnest money shall be forfeited.
		If the revised tendered amount of two more contractors received in revised offer is again found to be equal, the lowest tender, among such contractors, shall be decided by draw of lots in the presence of Tender Evaluation Committee & the lowest contractors those have quoted equal amount of their tenders.
		In case all the lowest contractors those have quoted same tendered amount, refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each contractor. Contractor(s), whose earnest money is forfeited because of non-submission of revised offer, shall not be allowed to participate in the re-tendering process of the work.
	5.	The officer inviting tender or his duly authorized assistant, will open tenders in the presence of any intending contractors who may be present at the time.
	6.	The officer inviting tenders shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest or any other tender.
	7.	The receipt of an accountant or clerk for any money paid by the contractor will not be considered as any acknowledgment or payment to the officer inviting tender and the contractor shall be responsible for seeing that he procures a receipt signed by the officer inviting tender or a duly authorized Cashier.
Applicable for Item Rate Tender only	8.	In the case of Item Rate Tenders, only rates quoted shall be considered. Any tender containing percentage below/above the rates quoted is liable to be rejected. Rates quoted by the contractor in item rate tender in figures shall be accurately filled in so that there is no discrepancy in the rates. However, if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall, unless otherwise proved, be taken as correct. If the amount of an item is not worked out by the contractor or it does not correspond with the rates written in figures, then the rates quoted by the contractor shall be taken as correct. Where the rates quoted by the contractor in figures tally, but the amount is not worked out correctly, the rates quoted by the contractor will, unless otherwise proved, be taken as correct and not the amount. In event no rate has been quoted for any item(s), leaving space blank; it will be presumed that

		the contractor has included the cost of this/these item(s) in other items and rate for such item(s) will be considered as zero and work		
		will be required to be executed accordingly. However, if a tenderer quotes Nil rates against each item in		
		Item Rate Tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.		
Applicable for Percentage Rate Tender only	9.	In case of Percentage Rate Tenders, only percentage quoted shall be considered. Any tender containing item rates is liable to be rejected. Percentage quoted by the contractor in percentage rate tender shall be accurately filled in figures, so that there is no discrepancy.		
Applicable for Percentage Rate Tender only	10.	In Percentage Rate Tender, the tenderer shall quote percentage below/above (in figures) at which he will be willing to execute the work. He shall also work out the total amount of his offer and the same should be written in figures in such a way that no interpolation is possible. In case of figures, the word 'Rs.' should be written before the figure of rupees and word 'P' after the decimal figures, e.g. 'Rs. 2.15P.		
	11.	(i) The Contractor whose tender is accepted, will be required to furnish Performance Guarantee of 5% (Five Percent) of the tendered amount within the period specified in <b>Schedule 'F'</b> . This Guarantee shall be in the form of cash (in case Guarantee amount is less than Rs. 10,000) or Deposit at Call Receipt of any Scheduled Bank/ Banker's Cheque of any Scheduled Bank/Demand Draft of any Scheduled Bank/Pay Order of any Scheduled Bank (in case Guarantee amount is less than Rs. 1,00,000) or Government Securities or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form.		
		(ii) The contractor whose tender is accepted will also be required to furnish by way of Security Deposit for the fulfilment of his contract, an amount equal to 5% of the tendered value of the work. The Security deposit will be collected by deductions from the running bills as well as final bill of the contractor at the rates mentioned in Schedule 'E'. The Security amount will also be accepted in cash or in the shape of Government Securities. Fixed Deposit Receipt of a Scheduled Bank or State Bank of India will also be accepted for this purpose provided confirmatory advice is enclosed.		
	12.	On acceptance of the tender, name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in-Charge, shall be communicated in writing to the Engineer-in-Charge.		
	13.	GST or any other tax applicable in respect of inputs procured by contractor for this contract, shall be payable by the Contractor and CWC will not entertain any claim whatsoever in respect of same. However, component of GST at time of supply of service (as provided in CGST Act 2017) provided by the contract shall be varied, if different from that applicable on the last date of receipt of tender including extension if any.		

	CWC em	tractor shall give a lingloyees related to him	n.	•	2
15. Tender for composite work includes, in addition to building work, all other works such as sanitary, water supply and drainage installations, electrical work, horticulture work, roads, paths etc.					
16. The contractor shall submit list of works which are in hand (progress) in the following form :					
	ame of Work	Name & Particulars of Deptt. where Work Done	Value of Work	Position of Works in Progress	Remarks
	1	2	3	4	5

### **CONDITIONS OF CONTRACT**

Definitions	1.	The <b>Contract</b> means the documents forming the tender and acceptance thereof and the formal agreement executed between the Central Warehousing Corporation and the Contractor, together with the documents referred to therein including these conditions, the specifications, designs, drawings and instructions issued from time to time by the Engineer-in-Charge and all these documents taken together, shall be deemed to form one contract and shall be complementary to one another.
	2.	In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them :
	(i)	The expression <b>Works</b> or <b>Work</b> shall, unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent and whether original, altered, substituted or additional.
	(ii)	The <b>Site</b> shall mean the land/or other places on, into or through which work is to be executed under the contract or any adjacent land, path or street through which work is to be executed under the contract or any adjacent land, path or street which may be allotted or used for the purpose of carrying out the contract.
	(iii)	The <b>Contractor</b> shall mean the individual, firm or company, whether incorporated or not, undertaking the works and shall include the legal personal representative of such individual or the persons composing such firm or company or the successors of such firm or company and the permitted assignees of such individual, firm or company.
	(iv)	The <b>Corporation/ Corpn. / Department</b> means the Central Warehousing Corporation.
	(v)	The <b>Engineer-in-Charge</b> means the Chief Engineer / Superintending Engineer who shall monitor and be in-charge of the work and who shall sign the contract on behalf of the Central Warehousing Corporation.

	(vi)	Accepting Authority shall mean the authority mentioned in Schedule 'F'.	
	(vii)	<b>Excepted Risk</b> are risks due to riots (other than those on account of contractor's employees), war (whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion revolution, insurrection, military or usurped power, any acts of Govt., damages from aircraft, acts of God, such as earthquake, lightening and unprecedented floods and other causes over which the contractor has no control and accepted as such by the Accepting Authority or causes solely due to use or occupation by Corporation of the part of the works in respect of which a certificate of completion has been issued or a cause solely due to faulty design of works.	
	(viii)	<b>Market Rate</b> shall be the rate as decided by the Engineer-in-Charge on the basis of the cost of materials and labour at the site where the work is to be executed plus the percentage mentioned in Schedule `F' to cover, all overheads and profits.	
		Provided that no extra overheads and profits shall be payable on the part(s) of work assigned to other agency(s) by the contractor as per terms of contract.	
	(ix)	<b>Schedule(s)</b> referred to in these conditions shall mean the relevant Schedule(s) annexed to the tender papers or the Standard Schedule of Rates applicable mentioned in Schedule `F' hereunder, with the amendments thereto issued upto date of receipt of tender.	
	(x)	<b>Department</b> means CWC or any department of Government of India which invites tenders on behalf of Corporation, as specified in Schedule 'F'.	
	(xi)	<b>District Specifications</b> means the Specifications followed by the State Government in the area where the work is to be executed.	
	(xii)	<b>Tendered Value or Contract Value</b> means the value of the entire work, as stipulated in the letter of acceptance.	
	(xiii) (xiv)	<b>Date of Commencement of Work:</b> The date of commencement of work shall be date of start as specified in <b>Schedule 'F'</b> or the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, as indicated in the tender document. <b>GST</b> shall mean Goods and Service Tax - Central, State and Inter State	
Performance	3. 4.	Where the context so requires, words imparting the singular only also include the plural and vice versa. Any reference to masculine gender shall, whenever required, include feminine gender and vice versa. Headings and Marginal notes to these General Conditions of Contract shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof or of the	
	5.	contract. The contractor shall be furnished, free of cost one certified copy of the contract documents except Standard Specifications, Schedule of Rates and such other printed and published documents, together with all drawings, as may be forming part of the tender papers. None of these documents shall be used for any purpose other than that of this contract.	

Carried Out       otherwise provided in these conditions, include all labour, materials, tools, plants, equipment and transport which may be required in preparation of and for and in the full and entire execution and completion of the works.         The descriptions given in the Schedule of Quantities (Schedule-A) shall, unless otherwise stated, be held to include wastage on materials, carriage and cartage, carrying and return of empties, hoisting, setting, fitting & fixing in position and all other labours necessary in & for the full and entire execution & completion of the work as aforesaid in accordance with good practice and recognized principles.         Sufficiency of Tender       7. The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of is tender for the works and of the rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.         Discrepancies and Adjustment of Errors       8. The several documents forming the Contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small scale drawing and figured dimensions in preference to scale and Special Conditions in preference to General Conditions.         8.1 In the case of discrepancy between the Schedule of Quantities, the Specifications and/or the Drawings, the following order of preference shall be observed –         (i)       Bill of Quantities (BOQ)         (ii)       Tentnical Specifications         (iii)       Drawings         (iv)       Spencial Conditions of Contract         (v				
shall, unless otherwise stated, be held to include wastage on materials, carriage and cartage, carrying and return of empties, hoisting, setting, fitting & fixing in position and all other labours necessary in & for the full and entire execution & completion of the work as aforesaid in accordance with good practice and recognized principles.         Sufficiency of Tender       7. The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.         Discrepancies and Adjustment of Errors       8. The several documents forming the Contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small scale drawing and figured dimensions in preference to scale and Special Conditions in preference to General Conditions.         8.1 In the case of discrepancy between the Schedule of Quantities, the Specifications and/or the Drawings, the following order of preference shall be observed – <ul> <li>(i) Bill of Quantities (BOQ)</li> <li>(ii) Technical Specifications</li> <li>(iii) Drawings</li> <li>(iv) Special Conditions of Contract</li> <li>(v) General Conditions of Contract</li> <li>(v) Special Conditions of Contract</li> <li>(vi) Instructions to Tenderers</li> </ul> <li>8.2 If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document and his decision shall be final &amp; binding on contractor.</li> <li>8.3 Any error</li>	Works to be Carried Out	6.	otherwise provided in these conditions, include all labour, materials, tools, plants, equipment and transport which may be required in preparation of and for and in the full and entire execution and	
Tender       tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the Schedule of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.         Discrepancies and Adjustment of Errors       8. The several documents forming the Contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small scale drawing and figured dimensions in preference to scale and Special Conditions in preference to General Conditions.         8.1 In the case of discrepancy between the Schedule of Quantities, the Specifications and/or the Drawings, the following order of preference shall be observed – <ul> <li>(i) Bill of Quantities (BOQ)</li> <li>(ii) Technical Specifications</li> <li>(iii) Drawings</li> <li>(iv) Special Conditions of Contract</li> <li>(v) General Conditions of Contract</li> <li>(v) General Conditions of Contract</li> <li>(vi) Instructions to Tenderers</li> </ul> <li>8.2 If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document form in description, quantity or rate in Schedule of Quantities or any omission therefrom shall not vitiate the Contract or release the Contract or release the Contract from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.</li> <li>Signing of Contract</li> <li>9. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall</li>			shall, unless otherwise stated, be held to include wastage on materials, carriage and cartage, carrying and return of empties, hoisting, setting, fitting & fixing in position and all other labours necessary in & for the full and entire execution & completion of the work as aforesaid in accordance with good practice and recognized	
and Adjustment of Errorsmutually explanatory of one another, detailed drawings being followed in preference to small scale drawing and figured dimensions in preference to scale and Special Conditions in preference to General Conditions.8.1In the case of discrepancy between the Schedule of Quantities, the Specifications and/or the Drawings, the following order of preference shall be observed – (i)(ii)Bill of Quantities (BOQ) (ii)(iii)Drawings (iv)(iv)Special Conditions of Contract (v)(v)General Conditions of Contract (vi)(vi)Instructions to Tenderers8.2If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document and his decision shall be final & binding on contractor.8.3Any error in description, quantity or rate in Schedule of Quantities or any omission therefrom shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.Signing of Contract9.The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of : 	Sufficiency of Tender	7.	tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the Schedule of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of	
Specifications and/or the Drawings, the following order of preference shall be observed –       (i) Bill of Quantities (BOQ)         (ii) Technical Specifications       (iii) Drawings         (iv) Special Conditions of Contract       (v) General Conditions of Contract         (v) General Conditions of Contract       (vi) Instructions to Tenderers         8.2 If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document and his decision shall be final & binding on contractor.         8.3 Any error in description, quantity or rate in Schedule of Quantities or any omission therefrom shall not vitiate the Contract or release the Contract from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.         Signing of Contract       9. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of : <ul> <li>(i) The Notice Inviting Tender, all the documents including drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof, together with any</li> </ul>	Discrepancies and Adjustment of Errors	8.	mutually explanatory of one another, detailed drawings being followed in preference to small scale drawing and figured dimensions in preference to scale and Special Conditions in preference to General	
<ul> <li>(vi) Instructions to Tenderers</li> <li>8.2 If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document and his decision shall be final &amp; binding on contractor.</li> <li>8.3 Any error in description, quantity or rate in Schedule of Quantities or any omission therefrom shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.</li> <li>9. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of :         <ul> <li>(i) The Notice Inviting Tender, all the documents including drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof, together with any</li> </ul> </li> </ul>		8.1	Specifications and/or the Drawings, the following order of preferenceshall be observed –(i)Bill of Quantities (BOQ)(ii)Technical Specifications(iii)Drawings(iv)Special Conditions of Contract	
<ul> <li>any omission therefrom shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.</li> <li>Signing of Contract</li> <li>9. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of :         <ul> <li>(i) The Notice Inviting Tender, all the documents including drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof, together with any</li> </ul> </li> </ul>		8.2	<ul> <li>(vi) Instructions to Tenderers</li> <li>If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the</li> </ul>	
<ul> <li>Contract the Accepting Authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of :</li> <li>(i) The Notice Inviting Tender, all the documents including drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof, together with any</li> </ul>		8.3	any omission therefrom shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from	
drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof, together with any	Signing of Contract	9.	the Accepting Authority, shall, within 15 days from the stipulated date	
correspondence leading thereto.			drawings, if any, forming the tender as issued at the time of	

(ii) Standard Form, as mentioned in <b>Schedule 'F'</b> consisting of :	ii) Standard Form, as mentioned in <b>Schedule 'F'</b> consisting of :		
<ul> <li>(a) Various Standard Clauses with corrections upto the dat stipulated in Schedule 'F' alongwith Annexures thereto</li> </ul>	e		
(b) Safety Code			
(c) Model Rules for the protection of health, sanitar arrangements for workers, employed by CWC or it contractors	-		
(d) CPWD's Contractor's Labour Regulations shall Mutation Mutandis apply to the work of CWC.	'is		
(e) List of Acts and Omissions for which fines can be impose	:d		
(iii) No payment for the work done will be made unless contract i signed by the contractor.	is		

## **CLAUSES OF CONTRACT**

	CLAUSE 1		
Performance Guarantee	The contractor shall submit an irrevocal 5% (Five percent) of the contracted deposits mentioned elsewhere in the performance of the contract agreeme without prejudice to any other provise period specified in Schedule 'F' from the Acceptance. This period can be further Charge upto a maximum period as spect request of the contractor stating the reaction the Performance Guarantee, to the sa Charge. This Guarantee cannot be in the deposited vide Demand Draft of any Statistical any Scheduled Bank (in case Guarant 1,00,000) or Government Securities of Scheduled Bank or the State Bank of form annexed hereto.	amount in addition to other ne contract for his proper nt, (not withstanding and/or sions in the contract) within he date of issue of Letter Of extended by the Engineer-in- ified in Schedule 'F' on written eason for delays in procuring tisfaction of the Engineer-in- the form of Cash but can be Scheduled Bank/Pay Order of tee amount is less than Rs. or Guarantee Bonds of any	
	The Performance Guarantee shall be init date of completion plus 60 days beyon completion of work gets enlarged, the co of Performance Guarantee extended to completion of work. After recording of the work by the competent authority, shall be returned to the contractor, wi in case of contracts involving ma services/any other work after constru- services/other work, then Performance as Security Deposit (to the extant total to CWC for the maintenance period/def shall be returned year wise proportional The Engineer-in-Charge shall make a of Guarantee except for amounts to which under the contract (not withstanding an other provisions in the contract agreem	nd that. In case the time for ontractor shall get the validity cover such enlarged time for the completion certificate for the performance guarantee thout any interest. However, intenance of building and uction of same building and action of same building and so Guarantee shall be retained SD of 5 % is made available ect liability period). The same ately. claim under the Performance ch the Corporation is entitled ad/or without prejudice to any	

	(a) Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee.
	(b) Failure by the contractor to pay Corporation any amount due, either as agreed by the contractor or determined under any of the Clauses/Conditions of the agreement, within 30 days of the service of notice to this effect by Engineer-in-Charge.
	(iv) In the event of the contract being determined or rescinded under provision of any of the Clause/Condition of the agreement, the Performance Guarantee shall stand forfeited in full and shall be absolutely at the disposal of the Corporation.
	(v) On substantial Completion of any work which has been completed to such an extent that the intended purpose of the work is met and ready to use, then a provisional Completion Certificate shall be recorded by the Engineer-in-Charge. The Provisional Certificate shall have appended with a list of outstanding balance item of work that need to be completed in accordance with the provisions of the contract.
	This Provisional Completion Certificate shall be recorded by the concerned Engineer-in-charge with the approval of Chief Engineer / Superintending Engineer, if required. After recording of the Provisional Completion Certificate for the work by the competent authority, the 80% of Performance Guarantee shall be returned to the contractor, without any interest.
	However, in case of contracts involving maintenance of building and services / any other work after construction of same building and services / other work and Full SD amount is available with CWC at the time of last RA Bill/Final Bill payment, then 100% of Performance Guarantee shall be returned to the contractor, without any interest after recording the provisional Completion Certificate.
	CLAUSE 1-A
Recovery of Security Deposit (SD)	Total SD under the contract with maintenance or defect liability period as per special condition of contract shall be 5 % of Contract value. The person/persons whose tender(s) may be accepted (hereinafter called the Contractor) shall permit Corporation at the time of making any payment to him for work done under the contract to deduct a sum at the rate of 10% of the gross amount of each running and final bill till the sum deducted will amount to Security Deposit of 5% of the tendered value of the work. Such deductions will be made and held by Corporation by way of Security Deposit unless he/they has/have deposited the amount of Security at the rate mentioned above in cash or in the form of Government Securities or Fixed Deposit Receipts. In case a Fixed Deposit Receipt of any Bank is furnished by the contractor to the Corporation as part of the Security Deposit and the Bank is unable to make payment against the said Fixed Deposit Receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the Corporation to make good the deficit. All compensations or the other sums of money payable by the contractor
	under the terms of this contract may be deducted from, or paid by the sale of a sufficient part of his Security Deposit or from the interest arising there

	from, or from any sums which may be due to or may become due to the contractor by Corporation on any account whatsoever and in the event of his Security Deposit being reduced by reason of any such deductions or sale as aforesaid, the contractor shall within 10 days make good in cash or Fixed Deposit Receipt tendered by the State Bank of India or by Scheduled Banks or Government Securities (if deposited for more than 12 months) endorsed in favour of the Engineer-in-Charge, any sum or sums which may have been deducted from, or raised by sale of his Security Deposit or any part thereof. The Security Deposit shall be collected from the running bills and the final bill of the contractor at the rates mentioned above.
	The Security Deposit as deducted above can be released against Bank Guarantee issued by a Scheduled Bank, on its accumulations to a minimum of Rs. 5 lacs subject to the condition that amount of such Bank Guarantee, except last one, shall not be less than Rs. 5 lacs. Provided further that the validity of Bank Guarantee including the one given against the Earnest Money shall be in conformity with provisions contained in Clause 17 which shall be extended from time to time depending upon extension of contract granted under provisions of Clause 2 and Clause 5.
	In case of contracts involving maintenance of building and services/any other work after construction of same building and services/other work, then Performance Guarantee shall be retained as Security Deposit (to the extant total SD of 5 % is made available to CWC for the maintenance period/defect liability period). The same shall be returned year wise proportionately.
	Note –
	1. Government papers tendered as security will be taken at 5% (five per cent) below its market price or at its face value, whichever is less. The market price of Government paper would be ascertained by the Chief Engineer/Superintending Engineer at the time of collection of interest and the amount of interest to the extent of deficiency in value of the Government paper will be withheld, if necessary.
	2. Government Securities will include all forms of Securities mentioned in Rule no. 274 of the G.F. Rules except Fidelity Bond. This will be subject to the observance of the condition mentioned under the Rule against each form of security.
	3. Note 1 & 2 above shall be applicable for both Clause 1 and 1A.
	CLAUSE 2
Compensation for Delay	If the contractor fails to maintain the required progress in terms of Clause 5 or to complete the work and clear the site on or before the contract completion or justified extended date of completion as per Clause 5 (excluding any extension under Clause 5.5) as well as any extension granted under Clauses 12 and 15; he shall, without prejudice to any other right or remedy available under the law to the CWC on account of such breach, pay as compensation the amount calculated at the rates stipulated below as the authority specified in schedule 'F' may decide on the amount of accepted Tendered Value of the work for every completed day/month (as determined) that the progress remains below that specified in Clause 5 or that the work remains incomplete –
	(i) Compensation for delay of work: With maximum rate @ 1% (one percent) per month of delay to be computed on per day basis.

	Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed 10% of the accepted Tendered Value of work or of the accepted Tendered Value of the sectional part of work as mentioned in Schedule 'F' for which a separate period of completion is originally given. GST as applicable under law shall be in addition to the above LD amount.
(	ii) In case no compensation has been decided by the authority in Schedule 'F' during the progress of work, this shall be no waiver of right to levy compensation by the said authority, if the work remains incomplete on final justified extended date of completion. If the Engineer in Charge decides to give further extension of time allowing performance of work beyond the justified extended date, the contractor shall be liable to pay compensation for such extended period.
	If any variation in amount of contract takes place during such extended period beyond justified extended date and the contractor becomes entitled to additional time under Clause 12, the net period for such variation shall be accounted for while deciding the period for levy of compensation. However, during such further extended period beyond the justified extended period, if any delay occurs by events under Sub-Clause 5.2, the contractor shall be liable to pay compensation for such delay.
e a s o E	provided that compensation during the progress of work before the justified extended date of completion for delay under this clause shall be for non- chievement of sectional completion or part handing over of work on tipulated/justified extended date for such part work or if delay affects any ther works/services. This is without prejudice to right of action by the ingineer-in-Charge under Clause 3 for delay in performance and claim of ompensation under that Clause.
b rv fo a ju d	n case action under Clause 2 has not been finalized and the work has been determined under Clause 3, the right of action under this Clause shall emain post determination of contract, but levy of compensation shall be or days the progress is behind the schedule on date of determination, as assessed by the authority in Schedule 'F', after due consideration of ustified extension. The compensation for delay, if not decided before the letermination of contract, shall be decided after of determination of ontract.
p C n C	The amount of compensation may be adjusted or set-off against any sum bayable to the Contractor under this or any other contract with the Corporation. In case, the contractor does not achieve a particular milestone mentioned in <b>Schedule 'F'</b> , or the re-scheduled milestone(s) in terms of Clause 5.4, the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied as above.
a c v fo n	Vith-holding of this amount on failure to achieve a milestone, shall be utomatic without any notice to the contractor. However, if the contractor atches up with the progress of work on the subsequent milestone(s), the vithheld amount shall be released. In case the contractor fails to make up or the delay in subsequent milestone(s), amount mentioned against each nilestone missed subsequently also shall be withheld. However, no nterest, whatsoever, shall be payable on such withheld amount

	Clau	ıse 2A	
Incentive for Early completion	com com a ma justi of ez if pa Prov whe Bond unde with	ase, the contractor completes the work ahead of stipulated date of pletion a bonus @1% (one percent) of the tendered value per month puted on per day basis, shall be payable to the contractor, subject to aximum limit of 5%(five percent) of the tendered value. Provided that fied time for extra work shall be calculated on pro-rata basis as cost ktra Work X stipulated period/tendered value. The amount of bonus, ayable, shall be paid along with final bill after completion of work. ided always that provision of the clause 2A shall be applicable only n so provided in Schedule F. us under this clause shall be applicable only if all the works covered er contract included required extra works are completed in all respect out any minor defect/pending /punch points etc and completion report been submitted by contractor to Chief Engineer, concerned warehouse	
	of w	ager and CWC Regional Manager digitally within 2 days of completion ork. Bonus under this clause shall not be applicable if extension of ract takes place for any reason attributable to department or ractor or third party whatsoever, and in all such cases no incentive will aid.	
	CLA	CLAUSE 3	
When Contract can be Determined	3.1	Subject to other provisions contained in this Clause, the Engineer-in- Charge may, without prejudice to any other rights or remedy against the Contractor in respect of any delay, not following safety norms, inferior workmanship, any claims for damages and/or any other provisions of this contract or otherwise, and whether the date of completion has or has not elapsed, by notice ( <b>Appendix G- XX &amp;</b> <b>XXI</b> ) in writing absolutely determine the contract in any of the following cases :	
	(i)	If the contractor having been given by the Engineer-in-Charge a notice in writing to rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or un-workman like manner, shall omit to comply with the requirement of such notice for a period of seven days thereafter.	
	(ii)	If the contractor has, without reasonable cause, suspended the progress of the work or has failed to proceed with the work with due diligence and continues to do so after a notice in writing of seven days from the Engineer-in-Charge.	
	(iii)	If the contractor fails to complete the work or section of work with individual date of completion on or before the stipulated or justified extended date, on or before such date of completion; and the Engineer in Charge without any prejudice to any other right or remedy under any other provision in the contract, has given further reasonable time in a notice given in writing in that behalf as either mutually agreed or in absence of such mutual agreement by his own assessment, making such time essence of contract and in the opinion of Engineer-in-Charge the contractor will be unable to complete the same or does not complete the same within the period specified.	
	(iv)	If the contractor persistently neglects to carry out his obligations under the contract and/or commits default in complying with any of the terms & conditions of the contract and does not remedy it or take	

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	effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-in-Charge.
	If the contractor shall offer or give or agree to give to any person in Corporation service or to any other person on his behalf any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other contract for Corporation.
	i) If the contractor shall enter into a contract with Corporation in connection with which commission has been paid or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and the terms of payment thereof have been previously disclosed in writing to the Engineer-in-Charge.
	ii) If the contractor had secured the contract with Corporation as a result of wrong tendering or other non-bonafide methods of competitive tendering or commits breach of Integrity Agreement.
	iii) If the contractor being an individual, or if a Firm, any partner thereof shall at any time be adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or composition or arrangement for the benefit of his creditors or purport so to do, or if any application be made under any Insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors.
	x) If the contractor, being a Company, shall pass a resolution or the Court shall make an order that the Company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court or the creditor to appoint a receiver or a manager or which entitle the court to make a winding up order.
	If the contractor shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days.
	(i) If the contractor assigns {excluding part(s) of work assigned to other agency(s) by the contractor as per terms of contract}, transfers, sublets (engagement of labour on a piece-work basis or of labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or otherwise parts with or attempts to assign, transfer, sublet or otherwise parts with the entire works or any portion thereof without the prior written approval of the Engineer-in-Charge.
	.2 When the contractor has made himself liable for action under any of the cases aforesaid, the Engineer-in-Charge on behalf of the Corporation shall have powers ( <b>Annex-X</b> ) :
	To determine the contract as aforesaid so far as performance of work by the Contractor is concerned (of which determination notice in writing to the contractor under the hand of the Engineer-in-Charge shall be conclusive evidence). Upon such determination, the Earnest Money Deposit, Security Deposit already recovered, Security Deposit

	In the event of the Engineer-in-Charge putting in force all or any of the powers vested in him under the preceding Clause he may, if he so desires after giving a notice in writing to the contractor, take possession of (or at the sole discretion of the Engineer-in-Charge which shall be final and
Contractor Liable to Pay Compensation even if Action not taken under Clause 3	In any case in which any of the powers conferred upon the Engineer-in- Charge by Clause 3 thereof, shall have become exercisable and the same are not exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the contractor and the liability of the contractor for compensation shall remain unaffected.
	CLAUSE 4
	<ul> <li>Neither party shall claim any compensation for such eventuality.</li> <li>This Clause is not applicable for any breach of the contract by either Party.</li> </ul>
	(iii) If the Tendered value of work exceeds Rs. 10 crore : 30 days
	(ii) If the Tendered value of work is more than Rs. 1 : 21 days crore and upto Rs. 10 crore
	(i) If the Tendered value of work is upto Rs. 1 crore : 15 days
	In case, the work cannot be started due to reasons not within the control of the contractor within 1/8 <sup>th</sup> of the stipulated time for completion of work or one month whichever is higher, either party may close the contract by giving notice to the other party stating the reasons. In such eventuality, the Performance Guarantee of the contractor shall be refunded within following time limits :
	CLAUSE 3A
	<b>3.4</b> And in case, action is taken under any of the provision aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the Engineer-in-Charge has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value, so certified.
	<b>3.3</b> In the event of above courses being adopted by the Engineer-in- Charge, the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract.
	(b) After giving notice to the contractor to measure up the work of the contractor and to take such whole, or the balance or part thereof, as shall be un-executed out of his hands and to give it to another contractor to complete the work. The contractor, whose contract is determined as above, shall not be allowed to participate in the tendering process for the balance work including any new items needed to complete the work.
	payable and Performance Guarantee under the contract shall be liable to be forfeited and shall be absolutely at the disposal of the Central Warehousing Corporation

	binding on the contractor) use as on hire (the amount of the hire money being also in the final determination of the Engineer-in-Charge) all or any tools, plant, materials and stores, in or upon the works, or the site thereof belonging to the contractor, or procured by the contractor and intended to be used for the execution of the work/or any part thereof, paying or allowing for the same in account at the contract rates, or, in the case of these not being applicable, at current market rates to be certified by the Engineer-in-Charge, whose certificate thereof shall be final, and binding on the contractor, clerk of the works, foreman or other authorized agent to remove such tools, plant, materials or stores from the premises (within a time to be specified in such notice). In the event of the contractor failing to comply with any such requisition, the Engineer-in-Charge may remove them at the contractor's expense or sell them by auction or private sale on account of the contractor and his risk in all respects and the certificate of the Engineer-in-Charge as to the expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the contractor.
	CLAUSE 5
Time and Extension for Delay	The time allowed for execution of the Works as specified in the Schedule 'F' or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the work shall commence from such time period as mentioned in Schedule 'F' or from the date of handing over of the site, notified by the Engineer-in-Charge, whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid, the Performance Guarantee shall be forfeited by the Engineer-in-Charge and shall be absolutely at the disposal of the Corporation without prejudice to any other right or remedy available in law.
	5.1 As soon as possible, but within 7 (seven) working days of award of work and in consideration of –
	(a) Schedule of handing over of site, as specified in the Schedule 'F'
	(b) Schedule of issue of designs, as specified in the Schedule 'F'
	(i) The Contractor shall submit a Time and Progress Chart for each milestone. The Engineer-in-Charge may within 7 (seven) working days thereafter, if required modify and communicate the program approved to the contractor, failing which the program submitted by the contractor shall be deemed to be approved by the Engineer-in- Charge.
	The work programme shall include all details of balance drawings and decisions required to complete the contract with specific dates by which these details are required by contractor without causing any delay in execution of the work. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of work and may be amended as necessary by agreement between the Engineer-in-Charge and the Contractor within the limitations of time imposed in the Contract documents.

(ii)	In case of non-submission of Construction Programme by the contractor, the program approved by the Engineer-in-Charge shall be deemed to be final.
(iii)	The approval by the Engineer-in-Charge of such programme shall not relieve the contractor of any of the obligations under the contract.
(iv)	The contractor shall submit the Time & Progress Chart and Progress Report using the mutually agreed software or in other format decided by Engineer-in-Charge for the work done during previous month to the Engineer-in-charge on or before 5 <sup>th</sup> day of each month, failing which a recovery as per Schedule 'F' to be decided by the NIT approving authority, shall be made on per week or part basis in case of delay in submission of the monthly progress report.
5.2	If the work(s) be delayed by :
	<ul> <li>(i) force majeure, or</li> <li>(ii) abnormally bad weather, or</li> <li>(iii) serious loss or damage by fire, or</li> <li>(iv) civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or</li> <li>(v) delay on the part of other contractors or tradesmen, engaged by Engineer-in- Charge in executing work, not forming part of the Contract, or</li> </ul>
	(vi) any other cause like above which, in the reasoned opinion of the Engineer-in-Charge is beyond the Contractor's control.
	then upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Engineer-in-charge, but shall nevertheless use constantly his best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in- Charge to proceed with the works. The contractor shall have no claim of damages for extension of time granted or rescheduling of milestone(s), if any for events listed in Sub-Clause 5.2.
5.3	In case, the work is hindered by the Department or for any reasons / event, for which the Department is responsible, the authority as indicated in Schedule 'F' shall, if justified, give a fair and reasonable extension of time and reschedule the milestones for completion of work.
	Such extension of time or rescheduling of milestone/s shall be without prejudice to any other right or remedy of the parties in contract or in law; provided further that for concurrent delays under this Sub-Clause and Sub-Clause 5.2 to the extent the delay is covered under Sub-Clause 5.2, the contractor shall be entitled to only extension of time and no damages.
5.4	Request for rescheduling of milestones or extension of time, to be eligible for consideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay on the prescribed forms, i.e. Form of application by the contractor for seeking rescheduling of milestones or Form of application by the contractor for seeking extension of time ( <b>Appendix-G-XVII</b> ) respectively to the authority, as indicated in Schedule 'F'. Contractor

	shall indicate in such a request period by which rescheduling of milestone/s or extension of time is desired.	
	With every request for rescheduling of milestones, or if at any time the actual progress of work falls behind the approved programme by more than 10% of the stipulated period of completion of contract, the contractor shall produce a revised programme which shall include all details of pending drawings and decisions required to complete the contract and also the target dates by which these details should be available without causing any delay in execution of the work. A recovery, as specified in Schedule 'F' shall be made on per day basis in case of delay in submission of the revised programme.	
	<ul> <li>5.4.1 In any such case, the authority as indicated in Schedule 'F' may give a fair and reasonable extension of time for completion of work or reschedule the milestones (Appendix-G-XVIII). Engineer-in-Charge shall finalize/reschedule a particular milestone before taking an action against subsequent mile stone. Such extension or rescheduling of the milestones shall be communicated to the Contractor by the authority, as indicated in Schedule 'F' in writing, within 21 days of the date of receipt of such request from the Contractor in prescribed form. In event of non-application by the contractor for extension of time Engineer-in-Charge, after affording opportunity to the contractor, may give, supported with a programme (as specified under Clause 5.4 above), a fair and reasonable extension within a reasonable period of occurrence of the event.</li> <li>5.5 In case, the work is delayed by any reasons, in the opinion of the Engineer-in-Charge, by the contractor for reasons beyond the events mentioned in Clause 5.2 or Clause 5.3 or Clause 5.4 and beyond the justified extended date; without prejudice to right to take action under Clause 3, the Engineer-in-Charge may grant extension of time required for completion of work without rescheduling of milestones. The contractor shall be liable for levy of compensation for delay for</li> </ul>	
	such extension of time.	
	CLAUSE 6	
Measurements of Work Done	Engineer-in-Charge shall, except as otherwise provided, ascertain and determine by measurement, the value of work done in accordance with the contract.	
	All measurements of all items having financial value shall be entered by the contractor and compiled in the shape of the Computerized Measurement Book having pages of A-4 size as per the format of the department, so that a complete record is obtained of all the items of works performed under the contract.	
	All such measurements and levels recorded by the contractor or his authorized representative from time to time during the progress of the work shall be got checked by the contractor from the Engineer-in-Charge or his authorized representative as per interval or program fixed in consultation with Engineer-in-Charge or his authorized representative. After the necessary corrections made by the Engineer-in-Charge, the measurement sheets shall be returned to the contractor for incorporating the corrections and for resubmission to the Engineer-in-Charge for the	

dated signatures by the Engineer-in-Charge and the contractor or their representatives in token of their acceptance.
Whenever bill is due for payment, the contractor would initially submit draft computerized measurement sheets and these measurements would be got checked/test checked from the Engineer-in-Charge and/or his authorized representative. The contractor will, thereafter, incorporate such changes as may be done during these checks/test checks in his draft computerized measurements, and submit to the department a computerized measurement book, duly bound, and with its pages machine numbered. The Engineer-in- Charge and/or his authorized representative would thereafter check this MB, and record the necessary certificates for their checks/test checks.
The final, fair, computerized measurement book given by the contractor, duly bound, with its pages machine numbered, should be 100% correct, and no cutting or over-writing in the measurements would thereafter be allowed. If at all any error is noticed, the contractor shall have to submit a fresh computerized MB with its pages duly machine numbered and bound, after getting the earlier MB cancelled by the department. Thereafter, the MB shall be taken in the Divisional Office records, and allotted a number as per the Register of Computerized MBs. This should be done before the corresponding bill is submitted to the Division Office for payment. The purpose of reference and record by the various officers of the department.
The contractor shall also submit to the department separately his computerized Abstract of Cost and the bill based on these measurements, duly bound, and its pages machine numbered alongwith two spare copies of the "Bill". Thereafter, this bill will be processed by the Division Office and allotted a number as per the computerized record in the same way as done for the measurement book meant for measurements.
The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for checking of measurements/levels by the Engineer-in-Charge or his representative.
Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in the specifications notwithstanding any provision in the relevant Standard Method of Measurement or any general or local custom. In the case of items which are not covered by specifications, measurements shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available, then a mutually agreed method shall be followed.
The contractor shall give, not less than seven days' notice to the Engineer- in-Charge or his authorized representative in charge of the work, before covering up or otherwise placing beyond the reach of checking and/or test checking the measurement of any work in order that the same may be checked and/or test checked and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of checking and/or test checking measurement and shall not cover up and place beyond reach of measurement any work without consent in writing of the Engineer-in-Charge or his authorized representative in charge of the work who shall, within the aforesaid period of seven days, inspect the work, and if any work shall be covered up or placed beyond the reach of checking

	and/or toot checking many unaments without such nation having have since
	and/or test checking measurements without such notice having been given or the Engineer-in-Charge's consent being obtained in writing, the same shall be uncovered at the Contractor's expense, or in default thereof, no payment or allowance shall be made for such work or the materials with which the same was executed.
	Engineer-in-Charge or his authorized representative may cause either themselves or through another officer of the department to check the measurements recorded by contractor and all provisions stipulated herein above shall be applicable to such checking of measurements or levels.
	It is also a term of this contract that checking and/or test checking the measurements of any item of work in the Measurement Book and/or its payment in the interim, on account of final bill, shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period.
	CLAUSE 7
Payment on Intermediate Certificate to be Regarded as Advances	No payment shall be made for work, estimated to cost Rs. Two lac or less till after the whole of the work shall have been completed and certificate of completion given. For works estimated to cost over Rs. Two lac, the interim or running account bills shall be submitted by the contractor for the work executed on the basis of such recorded measurements on the format of the Department in triplicate on or before the date of every month fixed for the same by the Engineer-in-Charge. The contractor shall not be entitled to be paid any such interim payment if the gross work done together with net payment/adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule 'F', in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved. Engineer-in-Charge shall arrange to have the bill verified by taking or causing to be taken, where necessary, the requisite measurements of the work. In the event of the failure of the contractor to submit the bills, no claims whatsoever due to delays on payment including that of interest shall be payable to the contractor. Payment on account of amount admissible shall be made by the Engineer-in-Charge certifying the sum to which the contractor is considered entitled by way of interim payment at such rates
	as decided by the Engineer-in-Charge. The amount admissible shall be paid by 10 <sup>th</sup> working day after the day of presentation of the bill by the Contractor to the Engineer-in-Charge or his Authorised Engineer together with the account of the material issued by the department, or dismantled materials, if any. In case of works outside the headquarters of the Engineer-in-Charge, the period of ten working days will be extended to fifteen working days.
	All such interim payments shall be regarded as payment by way of advances against final payment only and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re-erected. Any certificate given by the Engineer-in-Charge relating to the work done or materials delivered forming part of such payment, may be modified or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evidence that any work or materials to which it relates

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	is/are in accordance with the contract and specifications. Any such interim payment, or any part thereof shall not in any respect conclude, determine or affect in anyway powers of the Engineer-in-Charge under the contract or any of such payments be treated as final settlement and adjustment of accounts or in any way vary or affect the contract. Pending consideration of extension of date of completion, interim
	payments shall continue to be made as herein provided without prejudice to the right of the department to take action under the terms of this contract for delay in the completion of work, if the extension of date of completion is not granted by the competent authority.
	The Engineer-in-Charge in his sole discretion on the basis of a certificate from the Assistant Engineer / Executive Engineer to the effect that the work has been completed upto the level in question make interim advance payments without detailed measurements for work done (other than foundations, items to be covered under finishing items) upto lintel level (including sunshade etc.) and slab level, for each floor working out at 75% of the assessed value. The advance payments so allowed shall be adjusted in the subsequent interim bill to be submitted by the contractor within 10 days of the interim payment. In case of delay in submission of bill by the contractor, a simple interest @ 10% per annum shall be paid to the Corporation from the date of expiry of prescribed time limit which will be compounded on yearly basis.
Payment in Composite Contracts	In case of composite tenders, running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor component shall be made by the Engineer-in-Charge of the discipline of minor component directly to the main contractor.
	In case main contractor fails to make the payment to the contractor associated by him within 15 days of receipt of each running account payment, then on the written complaint of contractor associated for such minor component, Engineer in charge of minor component shall serve the show cause to the main contractor and if reply of main contractor either not received or found unsatisfactory, he may make the payment directly to the contractor associated for minor component as per the terms and conditions of the agreement drawn between main contractor and associate contractor fixed by him. Such payment made to the associate contractor shall be recovered by Engineer-in-charge of major or minor component from the next R/A/ final bill due to main contractor as the case may be.
	CLAUSE 7A
	No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in-Charge.
	CLAUSE 8
Completion Certificate and Completion Plans	Within ten days of the completion of the work, the contractor shall give notice of such completion to the Engineer-in-Charge and within thirty days of the receipt of such notice, the Engineer-in-Charge shall inspect the work and if there is no defect in the work, shall furnish the contractor with a final certificate of completion, otherwise a provisional certificate of physical

	completion indicating defects (a) to be rectified by the contractor and/or (b) for which payment will be made at reduced rates, shall be issued.		
	But no final certificate of completion shall be issued, nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall be executed all scaffolding, surplus materials, rubbish and all huts and sanitary arrangements required for his/their work-people on the site in connection with the execution of the works as shall have been erected or constructed by the contractor(s) and cleaned off the dirt from all wood work, doors, windows, walls, floor or other parts of the building, in, upon, or about which the work is to be executed or of which he may have had possession for the purpose of the execution; thereof, and not until the work shall have been measured by the Engineer-in-Charge.		
	If the contractor shall fail to comply with the requirements of this Clause as to removal of scaffolding, surplus materials and rubbish and all huts and sanitary arrangements as aforesaid and cleaning off dirt on or before the date fixed for the completion of work, the Engineer-in-Charge may at the expense of the contractor remove such scaffolding, surplus materials and rubbish etc., and dispose of the same as he thinks fit and clean off such dirt as aforesaid and the contractor shall have no claim in respect of scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof.		
	CLAUSE 8A		
Completion Plans to be Submitted by the Contractor	The contractor shall submit completion plans for Internal and External Civil, Electrical and Mechanical Services, within thirty days of the completion of the work, provided that the service plans having been issued for execution by the Engineer-in-Charge, unless the contractor, by virtue of any other provision in the contract, is required to prepare such plans.		
	In case, the contractor fails to submit the completion plan, as aforesaid, he shall be liable to pay a sum of 0.1% (zero point one percent) of accepted Tendered Value or limit prescribed in Schedule 'F', whichever is more as may be fixed by the authority as mentioned in Schedule 'F' and in this respect the decision of that authority shall be final and binding on the contractor. GST as applicable under law shall be in addition to the above amount.		
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	CLAUSE 9		
Payment of Final Bill			
-	<b>CLAUSE 9</b> The final bill shall be submitted by the contractor in the same manner as specified in interim bills within three months of physical completion of the work or within one month of the date of the final certificate of completion furnished by the Engineer-in-Charge, whichever is earlier. No further claims shall be made by the contractor after submission of the final bill and		

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	(i) If the tendered value of work is upto Rs. 1 crore : 2 months		
	(ii) If the tendered value of work is more than Rs. 1 : 3 months crore and up to Rs. 10 crore		
	(iii) If the tendered value of work exceeds Rs. 10 crore : 6 months		
	CLAUSE 9A		
Payment of Contractor's Bills to Banks	Payments due to the contractor may, if so desired by him, be made to his bank, registered financial, co-operative or thrift societies or recognized financial institutions instead of direct to him provided that the contractor furnishes to the Engineer-in-Charge –		
	(1) an authorization in the form of a legally valid document such as a power of attorney conferring authority on the bank; registered financial, con- operative or thrift societies or recognized financial institutions to receive payments and		
	(2) his own acceptance of the correctness of the amount made out as being due to him by Corporation or his signature on the bill or other claim preferred against Corporation before settlement by the Engineer-in-Charge of the account or claim by payment to the bank, registered financial, co- operative or thrift societies or recognized financial institutions.		
	While the receipt given by such banks; registered financial, co-operative or thrift societies or recognized financial institutions shall constitute a full and sufficient discharge for the payment, the contractor shall whenever possible present his bills duly receipted and discharged through his bank, registered financial, co-operative or thrift societies or recognized financial institutions.		
	Nothing herein contained shall operate to create in favour of the bank; registered financial, co-operative or thrift societies or recognized financial institutions any rights or equities vis-a-vis the Corporation.		
	CLAUSE 10A		
Materials to be provided by the Contractor	The contractor shall, at his own expense, provide all materials, required for the works other than those which are stipulated to be supplied by the Corporation.		
	The contractor shall, at his own expense and without delay, supply to the Engineer-in-Charge samples of materials to be used on the work and shall get these approved in advance. All such materials to be provided by the Contractor shall be in conformity with the specifications laid down or referred to in the contract. The contractor shall, if requested by the Engineer-in-Charge furnish proof, to the satisfaction of the Engineer-in-Charge that the materials so comply.		
	The Engineer-in-Charge shall, within thirty days of supply of samples or within such further period as he may require, intimate to the Contractor in writing whether samples are approved by him or not. If samples are not approved, the Contractor shall forthwith arrange to supply to the Engineer- in-Charge for his approval, fresh samples complying with the specifications laid down in the contract. When materials are required to be tested in accordance with specifications, approval of the Engineer-in-Charge shall be issued after the test results are received.		

	The Contractor shall at his risk & cost submit the samples of materials to	
	be tested or analysed and shall not make use of or incorporate in the work any materials represented by the samples until the required tests or analysis have been made and materials finally accepted by the Engineer- in-Charge. The Contractor shall not be eligible for any claim or compensation either arising out of any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of materials.	
	The contractor shall, at his risk & cost, make all arrangements and shall provide all facilities as the Engineer-in-Charge may require for collecting, and preparing the required number of samples for such tests at such time and to such place or places as may be directed by the Engineer-in-Charge and bear all charges and cost of testing unless specifically provided for otherwise elsewhere in the contract or specifications. The Engineer-in- Charge or his authorized representative shall, at all times, have access to the works and to all workshops and places where work is being prepared or from where materials, manufactured articles or machinery are being obtained for the works and the contractor shall afford every facility and every assistance in obtaining the right to such access.	
	The Engineer-in-Charge shall have full powers to require the removal from the premises of all materials which in his opinion are not in accordance with the specifications and in case of default, the Engineer-in-Charge shall be at liberty to employ at the expense of the contractor, other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials. The Engineer-in- Charge shall also have full powers to require other proper materials to be substituted thereof and in case of default, the Engineer-in- Charge shall also have full powers to require other proper materials to be substituted thereof and in case of default, the Engineer-in-Charge may cause the same to be supplied and all costs which may attend such removal and substitution shall be borne by the Contractor.	
	The contractor shall at his own expense, provide a material testing lab. at the site for conducting routine field tests. The lab. shall be equipped at least with the testing equipment, as specified in Schedule 'F'.	
	CLAUSE 10B	
Secured Advance on Materials	<ul> <li>(i) The contractor, on signing an indenture in the form to be specified by the Engineer-in-Charge, shall be entitled to be paid during the progress of the execution of the work upto 75% of the assessed value of any materials or an amount not exceeding 75% of the material element cost in the tendered rate of the finished item of the work, whichever is lower, which are, in the opinion of the Engineer-in-Charge, non-perishable, non-fragile and non-combustible and are in accordance with the contract and which have been brought on the site in connection therewith and are adequately stored and/or protected against damage by weather or other causes, but which have not at the time of advance been incorporated in the works. When materials on account of which an advance has been made under this Sub-Clause are incorporated in the work, the amount of such advance shall be recovered / deducted from the next payment made under any of the Clause or Clauses of this contract.</li> </ul>	
	perishable nature, fragile and combustible with the approval of the Engineer-in-Charge provided contractor provides a comprehensive	

	<ul> <li>insurance cover for the full cost of such materials. Decision of the Engineer-in-Charge shall be final and binding on the contractor in this matter. No secured advance, shall however, be paid on high-risk materials such as ordinary glass, sand, petrol, diesel etc.</li> <li>Clause 10B(ii) - Mobilisation Advance; Clause 10B(iii) - Interest &amp; Recovery; Clause 10B(iv); Clause 10C - Payment on Account of Increase in Prices/Wages due to Statutory Order(s); Clause 10CA - Payment due to</li> </ul>		
	Variation in Prices of materials after Receipt of Tender and Clause <b>10CC</b> - Payment due to Increase/Decrease in Prices/Wages (excluding materials covered under Clause 10CA) after Receipt of Tender for Works are <b>DELETED</b>		
	CLAUSE 10D		
Dismantled Material Govt. Property	The contractor shall treat all materials obtained during dismantling of a structure, excavation of the site for a work etc. as Corporation's property and such materials shall be disposed off to the best advantage of Corporation according to the instructions in writing issued by the Engineer-in-Charge.		
	CLAUSE 11		
Work to be Executed in Accordance with Specifications, Drawings, Orders etc.	The contractor shall execute the whole and every part of the work in the most substantial and workman like manner both as regards materials an otherwise in every respect in strict accordance with the specifications. The contractor shall also conform exactly, fully and faithfully to the design drawings and instructions in writing in respect of the work signed by the Engineer-in-Charge and the contractor shall be furnished free of charge one copy of the contract documents together with specifications, designs drawings and instructions, as are not included in the standar specifications of Central Public Works Department, specified in Schedul `F' or in any Bureau of Indian Standard or any other, published standar or code or Schedule of Rates or any other printed publication referred to elsewhere in the contract.		
	The contractor shall comply with the provisions of the contract and with the care and diligence execute and maintain the works and provide all labour and materials, tools and plants including for measurements and supervision of all works, structural plans and other things of temporary or permanent nature required for such execution and maintenance in so far as the necessity for providing these, is specified or is reasonably inferred from the contract. The Contractor shall take full responsibility for adequacy, suitability and safety of all the works and methods of construction.		
	CLAUSE 12		
Deviations/ Variations Extent and Pricing	<ul> <li>The Engineer-in-Charge shall have power –</li> <li>(i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and</li> </ul>		
	(ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound		

		to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-in-Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or	
		substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.	
12.1	The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value sum being ordered, be extended, if requested by the contractor, as follows :		
	(i)	In the proportion which the additional cost of the altered, additional or substituted work, bears to the original tendered value plus	
	(ii)	25% of the time calculated in (i) above or such further additional time, as may be considered reasonable by the Engineer-in-Charge	
12.2	Α.	In case of extra item(s) (items that are completely new and are in	
Deviation, Extra Items and Pricing		addition to the items contained in the contract), the contractor may within fifteen days of receipt of order or occurrence of the item(s) submit market rate, claim rates, supported by proper analysis which shall include invoices, vouchers etc. and manufacturer's specifications for the work, failing which the rate approved later by the Engineer- in-charge shall be binding and the Engineer-in-charge shall within prescribed time limit of the receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined, failing which it will be deemed to have been	
		approved.	
Deviation, Substituted Items and Pricing	В.	In case of substituted items (items that are taken up with partial substitution or in lieu of items of work in the contract), the rate for agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the following Para –	
	(a)	If the market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).	
	(b)	If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).	
Deviation,	C.	Powers of Modification to Contract :	
Deviated Quantities and Pricing	writ alte	Engineer on behalf of the Corporation shall be entitled by order in ing to enlarge or extend, diminish or reduce the works or make any rations in their design, character position, site, quantities, dimensions n the method of their execution or in the combination and use of	

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	materials for the execution thereof or to order any additional work to be done or any works not to be done and the Contractor will not be entitled, to any compensation for any increase/reduction in the quantities of work but will be paid only for the actual amount of work done and for approved materials supplied against a specific order.		
	<ul> <li>Unless otherwise specified in the special conditions of the contract, the accepted variation in quantity of items of the contract would be up to +25% of the quantity originally contracted i.e the Contract rates shall remain firm till the value of contract changes as mentioned in (iv) below.</li> </ul>		
	(ii) The Contractor shall be bound to carry out the work at the agreed rates and shall not be entitled to any claim or any compensation whatsoever up to the limit of -100% variation in quantity of items of works i.e there will be no claim or compensation in case the quantity of items of works are reduced or becomes '0' zero.		
	<ul> <li>(iii) In case an increase in quantities by more than 25% of the agreement quantities is considered unavoidable, then same shall be executed at following rates -</li> </ul>		
	<ul> <li>(a) Quantities operated in excess of 125% but upto 140% of the agreement quantities, shall be paid at 98% of the rate awarded for the items in that particular tender;</li> </ul>		
	(b) Quantities operated in excess of 140% but upto 150% of the agreement quantities, shall be paid at 96% of the rate awarded for the items in that particular tender;		
	(c) Variation in quantities of items beyond 150% will be avoided and would be permitted only in exceptional unavoidable circumstances and shall be paid at 96% of the rate awarded for the items in that particular tender.		
	(iv) As far as DSR items are concerned, the limit of +25% would apply to the value of DSR schedule as a whole and not on individual DSR items. i.e when there is an excess in total value of all Contract items scheduled in DSR (as mentioned in Schedule F) by 25 % or more, the limits on individual items as mentioned on (iii) a, (b), (c) shall be applicable and contract rates shall be modified accordingly. However, in case of Market rate Items, the limit of 25% would apply on the individual items irrespective of the manner of quoting the rate (single percentage rate or individual item rate) and rates of such items in contract shall be modified irrespective of change in overall value of contract.		
12.3	The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work in excess of the limits laid down in Schedule 'F' and the Engineer-in-Charge shall, after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.		

12.4	<ul> <li>For the purpose of operation of Schedule 'F', the following works shall be treated as works relating to foundation, unless &amp; otherwise defined in the contract : <ul> <li>(i) For Buildings : All works upto 1.2 metres above ground level or upto floor 1 level, whichever is lower</li> <li>(ii) For Abutments, Piers and Well Staining : All works upto 1.2 m above the bed level</li> <li>(iii) For Retaining Walls, Wing Walls, Compound Walls, Chimneys, Overhead Reservoirs/Tanks and other elevated structures : All works upto 1.2 metres above the ground level</li> <li>(iv) For Reservoirs/Tanks (other than overhead reservoirs/tanks) : All works upto 1.2 metres above the ground level</li> <li>(v) For Basement : All works upto 1.2 m above ground level or upto floor 1 level, whichever is lower</li> <li>(vi) For Roads : All items of excavation and filling including treatment of sub-base</li> </ul> </li> </ul>	
12.5	Any operation incidental to or necessarily has to be in contemplation of tenderer while quoting tender or necessary for proper execution of the item included in the Schedule of Quantities or in the Schedule of Rates mentioned above, whether or not, specifically indicated in the Description of the Item and the relevant Specifications, shall be deemed to be included in the rates quoted by the tenderer or the rate given in the said Schedule of Rates, as the case may be. Nothing extra shall be admissible for such operations.	
	CLAUSE 13	
Foreclosure of Contract due to Abandonment or Reduction in Scope of Work	If at any time after acceptance of the tender or during the progress of work, the purpose or object for which the work is being done changes due to any supervening cause and as a result of which the work has to be abandoned or reduced in scope, the Engineer-in-Charge shall give notice in writing to that effect to the contractor stating the decision as well as the cause for such decision and the contractor shall act accordingly in the matter. The contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the works in full, but which he did not derive in consequence of the foreclosure of the whole or part of the works.	
	The contractor shall be paid at contract rates, full amount for works executed at site and in addition, a reasonable amount as certified by the Engineer-in-Charge for the items hereunder mentioned which could not be utilized on the work to the full extent in view of the foreclosure :	
	<ul> <li>Any expenditure incurred on preliminary site work, e.g. temporary access roads, temporary labour huts, staff quarters and site office; storage accommodation and water storage tanks.</li> </ul>	
	<ul> <li>(ii) Corporation shall have the option to take over contractor's materials or any part thereof either brought to site or of which the contractor is legally bound to accept delivery from suppliers (for incorporation in or incidental to the work) provided, however Corporation shall be bound to take over the materials or such portions thereof as the</li> </ul>	

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	be tak Engine accou damae	actor does not desire to retain. For materials taken over or to ken over by Corporation, cost of such materials as detailed by eer-in-Charge shall be paid. The cost shall, however, take into nt purchase price, cost of transportation and deterioration or ge which may have been caused to materials whilst in the dy of the contractor.	
	contra less. I	phable compensation for transfer of T&P from site to actor's permanent stores or to his other works, whichever is if T&P are not transported to either of the said places, no cost insportation shall be payable.	
		nable compensation for repatriation of contractor's site staff nported labour to the extent necessary.	
	books of ac and evidend	ctor shall, if required by the Engineer-in-Charge, furnish to him, count, wage books, time sheets and other relevant documents ce, as may be necessary to enable him to certify the reasonable vable under this condition.	
	The reasonable amount of items on (i), (iii) and (iv) above shall not be in excess of 2% of the cost of the work remaining incomplete on the date of closure, i.e. total stipulated cost of the work as per accepted tender less the cost of work actually executed under the contract and less the cost of contractor's materials at site taken over by the Corporation as per item (ii) above.		
	Provided always that against any payments due to the contractor on this account or otherwise, the Engineer-in-Charge shall be entitled to recover or be credited with any outstanding balances due from the contractor for advance paid in respect of any tool, plants and materials and any other sums which at the date of termination were recoverable by the Corporation from the contractor under the terms of the contract.		
	In the event of action being taken under Clause 13 to reduce the scope of work, the contractor may furnish fresh Performance Guarantee on the same conditions, in the same manner and at the same rate for the balance tendered amount and initially valid up o the extended date of completion or stipulated date of completion, if no extension has been granted plus 60 days beyond that. Wherever such a fresh Performance Guarantee is furnished by the contractor, the Engineer-in-Charge may return the previous Performance Guarantee.		
	CLAUSE 14		
Carrying out Part Work at Risk & Cost of Contractor	A. (i) (a)	If the Contractor : At any time makes default during currency of work or does not execute any part of the work with due diligence and continues to do so even after a notice in writing of 7 days in this respect from the Engineer-in-Charge; or	
	(b)	Commits default in complying with any of the terms & conditions of the contract and does not remedy it or takes effective steps to remedy it within 7 days even after a notice in writing is given in that behalf by the Engineer-in-Charge; or	
	(c)	Fails to complete the work(s) or items of work with individual dates of completion, on or before the date(s) so determined	

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	notice given in writing in that behalf by the Engineer-in- Charge,
con Cor	nay, without prejudice to another right or remedy against the stractor which have either accrued or accrue thereafter to rporation, by a notice in writing to take the part work / part complete work of any item(s) out of his hands and shall have powers
	(a) Take possession of the site and any materials, constructional plant, implements, stores, etc. thereon; and/or
	(b) Carry out the part work / part incomplete work of any item(s) by any means at the risk & cost of the contractor.
inco the of l	The Engineer-in-Charge shall determine the amount, if any, is overable from the contractor for completion of the part work / part omplete work of any item(s) taken out of his hands and execute at risk & cost of the contractor, the liability of contractor on account oss or damage suffered by Corporation because of action under clause shall not exceed 10% of the tendered value of the work.
ma orig con	In determining the amount, credit shall be given to the atractor with the value of work done in all respect in the same nner and at the same rate as if it had been carried out by the ginal contractor under the terms of his contract, the value of atractor's materials taken over and incorporated in the work and e of plant & machinery belonging to the contractor.
pro givi exp pay	The certificate of the Engineer-in-Charge as to the value of rk done shall be final and conclusive against the contractor, vided always that action under this Clause shall only be taken after ing notice in writing to the contractor. Provided also that if the benses incurred by the department are less than the amount vable to the contractor at his agreement rates, the difference shall be payable to the contractor.
(vi) Cor iter Cor pre or cor cor	. ,
righ con adj the bala	) If the contractor fails to pay the required sum within the resaid period of 30 days, the Engineer-in-Charge shall have the nt to sell any or all of the contractors' unused materials, instructional plant, implements, temporary building at site etc. and ust the proceeds of sale thereof towards the dues recoverable from contractor under the contract and if thereafter, there remains any ance outstanding, it shall be recovered in accordance with the visions of the contract.
	i) In the event of above course being adopted by the Engineer- Charge, the contractor shall have no claim to compensation for any s sustained by him by reason of his having purchased or procured

<ul> <li>any materials or entered into any engagements or made any advant on any account or with a view to the execution of the work or the performance of the contract.</li> <li>B. (i) At the final stage of completion and commissioning of work in case the contractor's failure is limited to only some of the work costing not more than 2% of the original contract value, and the contractor request the engineer that such works may be offload</li> </ul>			
in case the contractor's failure is limited to only some of the wor costing not more than 2% of the original contract value, and t			
from him and got executed through another agency and addition cost incurred, if any, should be recovered from his dues; the Engine on being convinced that the anticipated additional cost for such wor will not be substantial and can be recovered from the dues of t contractor and that such offloading will help in completion a commissioning of work, may agree to such offloading without a adverse repercussion on the performance guarantee and secur deposit of the Contractor. However, the Engineer will not be und any compulsion to agree to such a request.	ks he ed hal er ks he nd ny ity		
<ul> <li>(ii) Further, before issuing letter of acceptance to anoth agency for such work, the Contractor shall be informed of the rat at which the work will be got executed and the Contractor should git his consent to do so and certify that he would have no future cla on this account and that the extra expenditure so incurred, if any, the Engineer in getting the offloaded work done, shall be recover from subsequent Bills or any other dues of the Contractor. In case t Contractor fails to give such consent within three working days, t Engineer may treat the same as not acceptable to Contractor a proceed accordingly.</li> <li>(iii) In any case, CWC shall deduct 10% of cost of such work Rs. one lakh whichever is lower, from the Contractor's dues administrative charges for the process of finalizing new agency from Contractor or not.</li> </ul>	es ve im by ed he he nd or as		
CLAUSE 15	CLAUSE 15		
Suspension of Work(i) The contractor shall, on receipt of the order in writing of the Engineer in-Charge, (whose decision shall be final and binding on t contractor) suspend the progress of the works or any part thereof t such time and in such manner as the Engineer-in-Charge may consid necessary so as not to cause any damage or injury to the work alread done or endanger the safety thereof for any of the following reaso :	he <sup>T</sup> or ler dy		
(a) on account of any default on the part of the contractor or;			
(b) for proper execution of the works or part thereof for reaso other than the default of the contractor; or	ns		
(c) for safety of the works or part thereof.			
The contractor shall, during such suspension, properly protect a secure the works to the extent necessary and carry out t instructions given in that behalf by the Engineer-in- Charge.			
(ii) If the suspension is ordered for reasons (b) and (c) in sub-para above :	(i)		
	to on		

	shall be considered to have the same force as if they had been given to the contractor himself.	
	If it shall appear to the Engineer-in-charge or his authorized subordinates -in-charge of the worker to the Chief Engineer-in-charge of Quality Assurance or his subordinate officers or the officers of the organization engaged by the Department for Quality Assurance or to the Chief Technical Examiner or his subordinate officers, that any work has been executed with unsound, imperfect or unskilful workmanship or with materials or articles provided by him for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract, the contractor shall, on demand in writing which shall be made within twelve months (six months in the case of work costing Rs. 10 Lac and below except roadwork) of the completion of the work from the Engineer-in-Charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the Engineer-in-Charge in his demand aforesaid, then the contractor shall be liable to pay compensation at the same rate as under Clause 2 of the contract (for non-completion of the work in time) for this default.	
	In such case, the Engineer-in-Charge may not accept the item of work at the rates applicable under the contract, but may accept such items at reduced rates as the authority specified in Schedule 'F' may consider reasonable during the preparation of on account bills or final bill, if the item is so acceptable without detriment to the safety and utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and incidental items rectified, or removed and re-executed at the risk & cost of the contractor. Decision of the Engineer-in-Charge to be conveyed in writing in respect of the same will be final and binding on the contractor.	
	CLAUSE 17	
Contractor Liable for Damages, Defects during Defect Liability Period	If the contractor or his working people or servants shall break, deface, injure or destroy any part of building in which they may be working or any building, road, road kerb, fence enclosure, water pipe, cables, drains, electric or telephone post or wires, trees, grass or grassland or cultivated ground contiguous to the premises on which the work or any part is being executed or if any damage shall happen to the work while in progress, from any cause whatever or if any defect, shrinkage or other faults appear in the work within stipulated maintenance period , as specified in Special conditions of Contract. after a certificate final or otherwise of its completion shall have been given by the Engineer in-Charge as aforesaid arising out of defect or improper materials or workmanship, the contractor shall upon receipt of a notice in writing on that behalf make the same good at his own expense or in default the Engineer-in-Charge cause the same to be made good by other workmen and deduct the expense from any sums that may be due or at any time thereafter may become due to the contractor, or from his Security Deposit or the proceeds of sale thereof or of a sufficient portion thereof.	

	The Security Deposit of the contractor shall not be refunded before the expiry of stipulated maintenance period as per Special condition of Contract, after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later. Provided that in the case of Road, CC Floor and Metal roofing sheets work when executed along with other Building works, if in the opinion of the Engineer-in-Charge, the Security Deposit, calculated proportionately for value of these road/CC floor/Metal roof Sheet works with respect to Gross is sufficient, to meet all liabilities of the contractor under this contract, such amount against Security Deposit will be retained and balance will be refunded after expiry of maintenance period as per Special conditions of Contract or upon the issue of the said certificate of completion or till the final bill has been prepared and passed, whichever is later. In case of Maintenance and Operation works of E&M services, the Security Deposit deducted from contractors shall be refunded within one month from the date of final payment or within one month from the date of completion of works of the maintenance contract, whichever is earlier.
	CLAUSE 18
Contractor to Supply Tools & Plants etc.	The contractor shall provide at his own cost all materials (except such special materials, if any, as may in accordance with the contract be supplied from the Engineer-in-Charge's stores), machinery, tools & plants as specified in Schedule 'F'.
	In addition to this, appliances, implements, other plants, ladders, cordage, tackle, scaffolding and temporary works required for the proper execution of the work, whether original, altered or substituted and whether included in the specifications or other documents forming part of the contract or referred to in these conditions or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in-Charge as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage therefore to and from the work.
	The contractor shall also supply without charge the requisite number of persons with the means and materials, necessary for the purpose of setting out works and counting, weighing and assisting the measurement for examination at any time and from time to time of the work or materials. Failing his so doing, the same may be provided by the Engineer-in-Charge at the expense of the contractor and the expenses may be deducted, from any money due to the contractor, under this contract or otherwise and/or from his security deposit or the proceeds of sale thereof, or of a sufficient portion thereof.
	CLAUSE 18A
Recovery of Compensation paid to Workmen	In every case in which by virtue of the provisions sub-section (1) of Section 12, of the Workmen's Compensation Act, 1923, the Corporation is obliged to pay compensation to workman employed by the contractor, in execution of the works, Corporation will recover from the contractor, the amount of the compensation so paid; and, without prejudice to the rights of the Corporation under sub-section (2) of Section 12 of the said Act, the Corporation shall be at liberty to recover such amount or any part thereof

	by deducting it from the security deposit or from any sum due by the Corporation to the contractor whether under this contract or otherwise.
	The Corporation shall not be bound to contest any claim made against it under sub-section (1) of Section 12, of the said Act, except on the written request of the contractor and upon his giving to Corporation full security for all costs for which the Corporation might become liable in consequence of contesting such claim.
	CLAUSE 18B
Ensuring Payment and Amenities to Workers, if Contractor Fails	In every case in which by virtue of the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and of the Contract Labour (Regulation and Abolition) Central Rules, 1971, the Corporation is obliged to pay any amounts of wages to a workman employed by the contractor in execution of the works or to incur any expenditure in providing welfare and health amenities required to be provided under the above said Act and the rules under Clause 19H or under the CPWD's Contractor's Labour Regulations or under the Rules framed by Govt. from time to time for the protection of health and sanitary arrangements for workers employed by Central Warehousing Corporation's Contractors; the Corporation will recover from the contractor, the amount of wages so paid or the amount of expenditure so incurred; and without prejudice to the rights of the Corporation shall be at liberty to recover such amount or any part thereof by deducting it from the Security Deposit or from any sum due by Corporation shall not be bound to contest any claim made against it under sub-section (1) of Section 20, sub-section (4) of Section 21, of the contractor whether under this contract or otherwise. Corporation shall not be bound to contest any claim made against it under sub-section (1) of Section 20, sub-section (4) of Section 21, of the work of the contractor and upon his giving to the Corporation full security for all costs for which Corporation might become liable in contesting such claim.
	CLAUSE 19
Labour Laws to be Complied by the Contractor	The contractor shall obtain a valid licence under the Contract Labour (R&A) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules, 1971, before the commencement of the work and continue to have a valid license until the completion of the work. The contractor shall also comply with provisions of the Inter-State Migrant
	Workmen (Regulation of Employment and Conditions of Service) Act, 1979. The contractor shall also abide by the provisions of the Child Labour (Prohibition and Regulation) Act, 1986.
	The contractor shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996.
	Any failure to fulfil these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work.
	CLAUSE 19A
	No labour below the age of fourteen years shall be employed on the work.

	CLA	USE 19B
Payment of Wages	Payr (i)	nent of Wages : The contractor shall pay to labour employed by him either directly or through sub-contractors, wages not less than fair wages as defined in the CPWD's Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.
	(ii)	The contractor shall, notwithstanding the provisions of any contract to the contrary, cause to be paid fair wage to labour indirectly engaged on the work, including any labour engaged by his sub- contractors in connection with the said work, as if the labour had been immediately employed by him.
	(iii)	In respect of all labour directly or indirectly employed in the works for performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with the CPWD's Contractor's Labour Regulations made by Govt. from time to time in regard to payment of wages, wage period, deductions from wages recovery of wages not paid and deductions unauthorizedly made, maintenance of wage books or wage slips, publication of scale of wage and other terms of employment, inspection and submission of periodical returns and all other matters of the like nature or as per the provisions of the Contract Labour (Regulation & Abolition) Act, 1970, and Contract Labour (Regulation & Abolition) Central Rules, 1971, wherever applicable.
	(iv)	<ul> <li>(a) The Engineer-in-Charge concerned shall have the right to deduct from the money due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfilment of the conditions of the contract for the benefit of workers, non-payment of wages or of deductions made from his or their wages which are not justified by their terms of the contract or non-observance of the Regulations.</li> <li>(b) Under the provision of Minimum Wages (Central) Rules, 1950, the contractor is bound to allow to the labours directly or indirectly employed in the works one-day rest for 6 days' continuous work and pay wages at the same rate as for duty. In the event of default, the Engineer-in-Charge shall have the right to deduct the sum or sums not paid on account of wages for weekly holidays to any labours and pay the same to the persons entitled thereto from any money due to the contractor by the Engineer-in-Charge concerned.</li> </ul>
		in the case of Union Territory of Deini, nowever, as the all-inclusive minimum daily wages fixed under Notification of the Delhi Admin. no. F.12(162) MWO/DAB/43884-91, dated 31.12.1979 as amended from time to time are inclusive of wages for the weekly day of rest, the question of extra payment for weekly holiday would not arise.
	(v)	The contractor shall comply with the provisions of the Payment of Wages Act 1936, Minimum Wages Act 1948, Employees Liability Act 1938, Workmen's Compensation Act 1923, Industrial Disputes Act 1947, Maternity Benefits Act, 1961 and the Contractor's Labour (Regulation & Abolition) Act 1970 or the modifications thereof or any

	other laws relating thereto and the rules made thereunder from time to time.	
	(vi) The contractor shall indemnify and keep indemnified Corporation against payments to be made under and for the observance of the laws aforesaid and the CPWD's Contractor's Labour Regulations without prejudice to his right to claim indemnity from his sub- contractors.	
	(vii) The laws aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract.	
	(viii) Whatever is the minimum wage for the time being, or if the wage payable is higher than such wage, such wage shall be paid by the contractor to the workmen directly without the intervention of Jamadar and that Jamadar shall not be entitled to deduct or recover any amount from the minimum wage payable to the workmen as and by way of commission or otherwise.	
	(ix) The contractor shall ensure that no amount by way of commission or otherwise is deducted or recovered by the Jamadar from the wage of workmen.	
	CLAUSE 19C	
Safety Provisions	In respect of all labour directly or indirectly employed in the work for the performance of the contractor's part of this contract, the contractor shall at his own expense arrange for the safety provisions as per CPWD's Safety Code ( <b>Appendix-G-XVI</b> ), framed from time to time and shall at his own expense provide for all facilities in connection therewith. In case the contractor fails to make arrangement and provide necessary facilities as aforesaid, he shall be liable to pay a penalty as decided by the authority mentioned in Schedule 'F' for each default and in addition, the Engineer-in-Charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor.	
	CLAUSE 19D	
Submission of Statements	The contractor shall submit by the 4 <sup>th</sup> and 19 <sup>th</sup> of every month, to the Engineer-in-Charge, a true statement showing in respect of second half of the preceding month and the first half of the current month respectively : (i) the number of labourers employed by him on the work (ii) their working hours (iii) the wages paid to them (iv) the accidents that occurred during the said fortnight showing the	
	circumstances under which they happened and the extent of damage and injury caused by them	
	(v) the number of female workers who have been allowed maternity benefit according to Clause 19F and the amount paid to them	
	Failing which the contractor shall be liable to pay to Corporation, a sum as decided by the authority mentioned in Schedule 'F' for each default or materially incorrect statement. Decision of the Engineer-in-Charge shall be final in deducting from any bill due to the contractor, the amount levied as fine and be binding on the contractor.	
	CLAUSE 19E	

Health and Sanitary Arrangements	In respect of all labour directly or indirectly employed in the works for the performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with all the rules framed by Government from time to time for the protection of health and sanitary arrangements for workers employed by the CPWD and its contractors.
	CLAUSE 19F
Maternity Leave and Pay	<ul> <li>Leave and Pay during leave shall be regulated as follows –</li> <li>1. Leave : <ul> <li>(i) in the case of delivery - maternity leave not exceeding 8 weeks, 4 weeks upto and including the day of delivery and 4 weeks following that day</li> <li>(ii) in the case of miscarriage - upto 3 weeks from the date of miscarriage</li> </ul> </li> </ul>
	<ol> <li>Pay :         <ul> <li>(i) in the case of delivery - leave pay during maternity leave will be at the rate of the women's average daily earnings, calculated on total wages earned on the days when full time work was done during a period of three months immediately preceding the date on which she gives notice that she expects to be confined or at the rate of Rupee one only a day whichever is greater.</li> <li>(ii) in the case of miscarriage - leave pay at the rate of average daily earning calculated on the total wages earned on the days when full time work was done during a period of three months immediately preceding the date of such miscarriage.</li> </ul> </li> <li>Conditions for the grant of Maternity Leave :         <ul> <li>No maternity leave benefit shall be admissible to a woman unless she</li> </ul> </li> </ol>
	<ul> <li>has been employed for a total period of not less than six months immediately preceding the date on which she proceeds on leave.</li> <li>4. The contractor shall maintain a register of Maternity (Benefit) in the Prescribed Form as shown in <b>Appendix-G- I &amp; II</b>, and the same shall be kept at the place of work</li> </ul>
	CLAUSE 19G
Default & Breach of Provisions	In the event of the contractor(s) committing a default or breach of any of the provisions of the CPWD's Contractor's Labour Regulations and Model Rules for the protection of health and sanitary arrangements for the workers as amended from time to time or furnishing any information or submitting or filing any statement under the provisions of the above Regulations and Rules which is materially incorrect, he/they shall, without prejudice to any other liability, pay to the Corporation a sum as decided by the authority mentioned in Schedule 'F' for every default, breach or furnishing, making, submitting, filing such materially incorrect statements and in the event of the contractor(s) defaulting continuously in this respect, the penalty may be enhanced to as decided by the authority mentioned in Schedule 'F' per day for each day of default subject to a maximum of 5 per cent of the estimated cost of the work put to tender. Decision of the Engineer-in-Charge shall be final and binding on Parties.
	not properly observing and complying with the provisions of the CPWD's

	Contractor's Labour Regulations & Model Rules and the provisions of the Contract Labour (Regulation & Abolition) Act 1970, and the Contract Labour (R&A) Central Rules 1971, for the protection of health & sanitary arrangements for work-people employed by the contractor(s) (hereinafter referred as "the said Rules") the Engineer-in-Charge shall have power to give notice in writing to the contractor(s) requiring that the said Rules be complied with and the amenities prescribed therein be provided to the work-people within a reasonable time to be specified in the notice. If the contractor(s) shall fail within the period specified in the notice to comply with and/observe the said Rules and to provide the amenities to the work- people as aforesaid, the Engineer-in-Charge shall have the power to provide the amenities herein before mentioned at the cost of the
	contractor(s). The contractor(s) shall erect, make & maintain at his/their own expense and to approved standards all necessary huts and sanitary arrangements required for his/their work-people on the site in connection with the execution of the works, and if the same shall not have been erected or constructed, according to approved standards, the Engineer-in-Charge shall have power to give notice in writing to the contractor(s) requiring that the said huts and sanitary arrangements be remodelled and/or reconstructed according to approved standards, and if the contractor(s) shall fail to remodel or reconstruct such huts and sanitary arrangements according to approved standards within the period specified in the notice, the Engineer-in-Charge shall have the power to remodel or reconstruct such huts and sanitary arrangements according to approved standards at the cost of the contractor(s).
	CLAUSE 19H
Logistics for Labours	The contractor(s) shall at his/their own cost provide his/their labour with
	a sufficient number of huts (hereinafter referred to as the camp) of the following specifications on a suitable plot of land to be approved by the Engineer-in-Charge.
	following specifications on a suitable plot of land to be approved by the
	<ul> <li>following specifications on a suitable plot of land to be approved by the Engineer-in-Charge.</li> <li>(i) (a) The minimum height of each hut at the eaves level shall be 2.1m (7 ft) and the floor area to be provided will be at the rate of 2.7 sqm (30 sqft) for each member of the worker's family staying</li> </ul>
	<ul> <li>following specifications on a suitable plot of land to be approved by the Engineer-in-Charge.</li> <li>(i) (a) The minimum height of each hut at the eaves level shall be 2.1m (7 ft) and the floor area to be provided will be at the rate of 2.7 sqm (30 sqft) for each member of the worker's family staying with the labourer.</li> <li>(b) The contractor(s) shall, in addition, construct suitable cooking places, having a minimum area of 1.80m x 1.50m (6'x5'), adjacent</li> </ul>
	<ul> <li>following specifications on a suitable plot of land to be approved by the Engineer-in-Charge.</li> <li>(i) (a) The minimum height of each hut at the eaves level shall be 2.1m (7 ft) and the floor area to be provided will be at the rate of 2.7 sqm (30 sqft) for each member of the worker's family staying with the labourer.</li> <li>(b) The contractor(s) shall, in addition, construct suitable cooking places, having a minimum area of 1.80m x 1.50m (6'x5'), adjacent to the hut for each family.</li> <li>(c) The contractor(s) shall also construct temporary latrines and urinals for the use of the labourers each on the scale of not less than four per each one hundred of the total strength, separate latrines</li> </ul>

<ul> <li>occupation, the roofs remain water-tight.</li> <li>(b) The contractor(s) shall provide each hut with proper ventilation.</li> <li>(c) All doors, windows, and ventilators shall be provided with suitable leaves for security purposes.</li> <li>(d) There shall be kept an open space of at least 7.2m (8 yards) between the rows of huts which may be reduced to 6m (20 ft) according to the availability of site with the approval of the Engineer-in-Charge. Back-to-back construction will be allowed.</li> <li>(iii) Water Supply - The contractor(s) shall provide adequate supply of water for the use of labourers. The provisions shall not be less than two gallons of pure and wholesome water per head per day for bathing &amp; washing purposes. Where piped water supply is available, supply shall be at stand posts and where the supply is from wells or river, tanks which may be of metal or masonry, shall be provided. The contractor(s) shall abo, at his/ their labour camp from the existing mains wherever available and shall pay all fees and charges therefor.</li> <li>(iv) The site selected for the camp shall be high ground, removed from jungle.</li> <li>(v) Disposal of Excreta - The contractor(s) shall make necessary arrangements for the disposals of excreta from the lationes by trenching or incineration which shall be according to the requirements laid down by the Local Health Authorities. If trenching or incineration which shall be according to the Municipal Committee/Authority and inform it about the number of labourers employed so that arrangements may be made by such Committee (Authority for the removal of the excreta All charges on this account shall be borne by the contractor shall provide ensweeper for every eight seats in case of dry system.</li> <li>(vi) Drainage - The contractor(s) shall make arrangements for the removal of the excreta through the Municipal (V)Authority. The contractor(s) shall make arrangements for the removal of the excreta stops the contractor to the municipalit/V)A</li></ul>		any other materials, as may be approved by the Engineer-in-Charge
<ul> <li>ventilation.</li> <li>(c) All doors, windows, and ventilators shall be provided with suitable leaves for security purposes.</li> <li>(d) There shall be kept an open space of at least 7.2m (8 yards) between the rows of huts which may be reduced to 6m (20 ft) according to the availability of site with the approval of the Engineer-in-Charge. Back-to-back construction will be allowed.</li> <li>(iii) Water Supply - The contractor(s) shall provide adequate supply of water for the use of labourers. The provisions shall not be less than two gallons of pure and wholesome water per head per day for drinking purposes and three gallons of clean water per head per day for drinking purposes and three gallons of clean water per head per day for bathing &amp; washing purposes. Where piped water supply is available, supply shall be at stand posts and where the supply is from wells or river, tanks which may be of metal or maconry, shall be provided. The contractor(s) shall allo, at his' their own cost, make arrangements for laying pipe lines for water supply to his/ their labour camp from the existing mains wherever available and shall pay all fees and charges therefor.</li> <li>(iv) The site selected for the camp shall be high ground, removed from jungle.</li> <li>(v) Disposal of Excreta - The contractor(s) shall make necessary arrangements for the disposals of excreta from the latrines by trenching or incinerations is not allowed, the contractor(s) shall make arrangements for the removal of the excreta. All charges on thuncicpality/Authority and inform it about the number of labourers employed so that arrangements may be made by such Committee /Authority for the removal of the excreta. All charges on the saccording away sewage water, so as to keep camp neat &amp; tidy.</li> <li>(vi) Drainage - The contractor(s) shall make arrangements for draining away sewage water, so as to keep camp neat &amp; tidy.</li> <li>(vii) Che intractor(s) shall make necessary arrangements for conservancy and sanitation i</li></ul>		
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	cards to the labourers, whether temporary or permanent and he shall be responsible for any untoward action on the part of such labour. AE will display a list of contractors working in the Colony/Blocks on the notice board in the colony and also at the service centre, to apprise the residents about the same.
	CLAUSE 19J
Removal of Illegal Occupation	It shall be the responsibility of the contractor to see that the building under construction is not occupied by anybody unauthorized during construction and is handed over to the Engineer-in-Charge with vacant possession of complete building. If such building though completed is occupied illegally, then the Engineer-in-Charge shall have the option to refuse to accept the said building/buildings in that position. Any delay in acceptance on this account will be treated as the delay in completion and for such delay, a levy upto 5% of tendered value of work may be imposed by Superintending Engineer whose decision shall be final both with regard to the justification & quantum and be binding on contractor.
	However, the Superintending Engineer, through a notice, may require the contractor to remove the illegal occupation any time on or before construction and delivery.
	CLAUSE 19K
Employment of Skilled / Semi- Skilled Workers	The contractor shall, at all stages of work, deploy skilled/semi-skilled tradesmen who are qualified and possess certificate in particular trade from CPWD Training Institute / Industrial Training Institute / National Institute of Construction Management and Research (NICMAR) / National Academy of Construction, CIDC or any similar reputed and recognized Institute managed/certified by State/Central Govt. Number of such qualified tradesmen shall not be less than 20% of total skilled/semi-skilled workers required in each trade at any stage of work. Contractor shall submit number of man-days required in respect of each trade, its scheduling and the list of qualified tradesmen alongwith requisite certificate from recognized Institute to Engineer-in-charge for approval.
	Notwithstanding such approval, if the tradesmen are found to have inadequate skill to execute the work of respective trade, the contractor shall substitute such tradesmen within two days of written notice from Engineer-in-Charge. Failure on the part of contractor to obtain approval of Engineer-in-Charge or failure to deploy qualified tradesmen will attract a compensation to be paid by contractor at the rate specified in Schedule 'F' per such tradesman per day. Decision of Engineer-in-Charge, as to whether particular tradesman possesses requisite skill and amount of compensation in case of default, shall be final and binding.
	Provided always, that the provisions of this Clause shall not be applicable for works with estimated cost put to tender being less than Rs. 5 crore.
	For work costing more than Rs. 10 crore, and upto Rs. 50 crore, the contractor shall arrange on site training as per National Skill Development Corporation (NSDC) norms for at least 20% of the unskilled workers engaged in the project in co-ordination with the CPWD Regional Training Institute & National Skill Development Corporation (NSDC) for certification at the level of skilled/semi-skilled tradesmen.
	For work costing more than Rs. 50 Crores, the contractor shall arrange on site training as per National Skill Development Corporation (NSDC) norms

Changes in Firm's Constitution to be Intimated	Where the contractor is a Partnership Firm, the previous approval in writing of the Engineer-in-Charge shall be obtained before any change is made in the constitution of the firm. Where the contractor is an individual or a Hindu Undivided Family business concern, such approval as aforesaid shall
	CLAUSE 23
	All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of the Corporation without reference to the actual loss or damage sustained and whether or not any damage shall have been sustained.
	CLAUSE 22
Complied with Work not to be sublet. Action in case of Insolvency	amended from time to time and rules framed thereunder and other labour laws, affecting contract labour that may be brought into force from time to time. <b>CLAUSE 21</b> The contract shall not be assigned or sublet without the written approval of the Engineer-in-Charge. And if the contractor shall assign or sublet his contract or attempt so or become insolvent or commence any insolvency proceedings or make any composition with his creditors or attempt to do so, or if any bribe, gratuity, gift, loan, perquisite, reward or advantage pecuniary or otherwise, shall either directly or indirectly, be given, promised or offered by the contractor, or any of his servants or agent to any public officer or person in the employee of The Corporation in any way relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract, the Engineer-in-Charge, on behalf of the Corporation, shall have power to adopt the course specified in Clause 3 hereof in the interest of The Corporation and in the event of such course being adopted, the consequences specified in the said Clause 3 shall ensue.
Minimum Wages Act to be	The contractor shall comply with all the provisions of the Minimum Wages Act, 1948 and Contract Labour (Regulation and Abolition) Act, 1970,
	CLAUSE 20
Contribution of EPF and ESI	The ESI and EPF contributions on the part of employer in respect of this contract shall be paid by the contractor. The ESI, EPF and other labour compliance will be sole responsibility of Contractor; CWC will not provide anything over and above rate quoted by contractor. Contractor will provide the proof to CWC for submission of ESI & EPF to respective authorities alongwith bills and proof of final amount deposited to respective authorities for ESI & EPF alongwith final bill compulsorily. If the contractor fails to do so, CWC will deduct appropriate amount from contractor's Bill / Security Deposit and pay to the respective authorities.
	CLAUSE 19L
	for at least 30% of the unskilled worker engaged in the project in coordination with the CPWD Regional Training Institute & National Skill Development Corporation (NSDC) for certification at the level of skilled/ semi-skilled tradesmen. The cost of such training as stated above shall be borne by the Government. The necessary space and workers shall be provided by the contractor and no claim whatsoever shall be entertained.

Life Cycle Cost	likewise be obtained before the contractor enters into any partnership agreement where under the Partnership Firm would have the right to carry out the works hereby undertaken by the contractor. If previous approval as aforesaid is not obtained, the contract shall be deemed to have been assigned in contravention of Clause 21 hereof and the same action may be taken, and the same consequences shall ensue as provided in the said Clause 21. <b>CLAUSE 24</b> The contractor shall be responsible for safety, quality and soundness of the buildings including structural elements. All works to be executed under the contract shall be executed under the
	direction and subject to the approval in all respects of the Engineer-in- Charge who shall be entitled to direct at what point or points and in what manner they are to be commenced, and from time to time carried on.
	CLAUSE 25
Settlement of Claims, Disputes & Arbitration	<b>25.1 Claims :</b> If the Contractor intends to claim any additional payment under any Clause of these Conditions or otherwise, the Contractor shall give notice to the CWC's representative as soon as possible and in any event within 28 days of the start of the event giving rise to the claim.
	The Contractor shall keep such contemporary records as may be necessary to substantiate any claim, either on site or at another location acceptable to the CWC's representative. Without admitting the CWC's liability, the CWC's representative shall, on receipt of such notice, inspect such records and may instruct the Contractor to keep further contemporary records. The Contractor shall permit the CWC's representative to inspect all such records, and shall (if instructed) submit copies to the CWC's representative.
	Within 28 days of such notice, or such other time as may be agreed by the CWC's representative, Contractor shall send to the CWC's representative an account, giving detailed particulars of the amount and basis of the claim. Where the event giving rise to the claim has a continuing effect, such account shall be considered as interim.
	The Contractor shall then, at such intervals as the CWC's representative may reasonably require, send further interim accounts giving the accumulated amount of the claim and any further particulars. Where interim accounts are sent to the CWC's representative, the Contractor shall send a final account within 28 days of the end of the effects resulting from the event.
	If the Contractor fails to comply with this Sub-Clause, he shall not be entitled to additional payment.
	25.2 Payment of Claims :
	The CWC's representative shall notify his decision on Contractor's claim after due consultation with the CWC within 60 days. If the particulars supplied are insufficient to substantiate the whole of the claim, the Contractor shall be entitled to payment for such part of the claim as has been substantiated. The Contractor shall be entitled to have included in any Interim Payment Certificate such amount for any claim as the CWC's representative considers due.

25.3 Conciliation :
If the CWC's representative shall fail to notify his decision in Sub-Clause 25.2 within a period of sixty days after being requested or if either the CWC or the Contractor be dissatisfied with any such decision of the Employer's representative, then the matter in dispute shall be referred to conciliation as herein provided.
25.3.1 Referring of Disputes for Reconciliation :
Within 60 days of receipt of Notice of Dispute, either party shall refer the matter in dispute to Conciliation.
Conciliation proceedings shall be initiated within 30 days of one party inviting the other in writing to conciliation. Conciliation shall commence when the other party accepts in writing this invitation. If the invitation is not accepted then conciliation shall not take place. If the party initiating conciliation does not receive a reply within 30 days from the date on which it sent the invitation, it may elect to treat this as a rejection of the invitation to conciliate and inform the other party accordingly.
The conciliation shall be undertaken by one Conciliator selected from a panel of Conciliators maintained by the CWC.
The cost of conciliation shall be borne by the respective parties. The cost shall inter-alia include fee of the conciliator as per the rates fixed by the CWC from time to time.
The Conciliator shall assist the parties to reach an amicable settlement in an independent and impartial manner.
25.3.2 Conciliation Procedure :
The CWC shall maintain a panel of Conciliators with requisite qualifications and professional experience who shall be from serving or retired engineers of Govt. departments, or of Public Sector Undertakings. Out of this panel, a list of three Conciliators shall be sent to the Contractor who shall choose one of them to act as Conciliator and conduct conciliation proceedings in accordance with "The Arbitration and Conciliation Act, 1996" of India.
The Party serving notice of dispute on the other party shall also service such notice on the Conciliator chosen as per this Clause. The CWC at the time of offering the panel of Conciliator(s) to be appointed as Conciliator shall also supply the information with regard to the qualifications of the said Conciliator nominated in the panel alongwith their professional experience, phone numbers and addresses of the Contractor.
The CWC and the Contractor shall in good faith cooperate with the Conciliator and in particular shall endeavour to comply with requests by the Conciliator to submit written materials, provide evidence and attend meetings. Each Party may, on his own initiative or at the invitation of the Conciliator, submit to the Contractor suggestions for the settlement of the dispute.
When it appears to the Conciliator that there exist elements of a settlement which may be acceptable to the parties, he shall formulate the terms of a possible settlement and submit them to the parties for their observations. After receiving the observations of the parties, the Conciliator may reformulate the terms of a possible settlement in the light of such observations.

If the parties reach agreement on a settlement of the dispute, they may draw up and sign a written settlement agreement. If requested by the parties, the Conciliator may draw up, or assist the parties in drawing up, the settlement agreement.
When the parties sign the settlement agreement, it shall be final and binding on the parties and persons claiming under them respectively.
The Contractor shall authenticate the settlement agreement and furnish a copy thereof to each of the parties.
As far as possible, the Conciliation proceedings should be completed within 60 days of the receipt of notice by the Conciliator.
The parties shall not initiate, during the conciliation proceedings, any arbitral or judicial proceedings in respect of a dispute that is the subject matter of the conciliation proceedings.
25.3.3 Termination of Conciliation Proceedings :
The Conciliation Proceedings shall be terminated :
(a)—By the signing of the settlement agreement by the parties on the date of agreement; or
(b) By written declaration of the conciliator, after consultation with the parties, to the effect further efforts at re-conciliation are no longer justified on the date of declaration; or
(c)—By a written declaration of the parties to the conciliator to the effect
that the conciliation proceedings are terminated, on the date of declaration; or
(d) By a written declaration of a party to the other party and the conciliator, if appointed, to the effect that the conciliation proceedings are terminated, on the date of declaration.
25.4 Dispute Resolution Committee :
Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, design, drawings and instructions here-in before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the works or the execution or failure to execute the same whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof, shall be dealt with as mentioned hereinafter :
(a) If the contractor considers any work demanded of him to be outside the requirements of the contract, or disputes any drawings, record or decision given in writing by the Engineer-in-Charge or if the Engineer- in-Charge considers any act or decision of the contractor on any matter in connection with or arising out of the contract or carrying out of the work, to be unacceptable and is disputed, such party shall promptly, within 15 days of the arising of the disputes, request the Chief Engineer or where there is no Chief Engineer, the Director who shall refer the disputes to Dispute Redressal Committee (DRC) within 15 days alongwith a list of disputes with amounts claimed if any in respect of each such dispute. The Dispute Redressal Committee (DRC) shall give its decision within a period of 60 days extendable by

	30 d from	ays by consent of both the parties from the receipt of reference CE.	
	indic befo	constitution of Dispute Redressal Committee (DRC) shall be as ated in Schedule 'F'. Provided that no party shall be represented re the Dispute Redressal Committee by an advocate / legal usel etc.	
(	acce	DRC will submit its decision to the concerned CE/Director for ptance. CE/Director, in a time limit of 30 days from receipt of decision, will convey acceptance or otherwise on the said sion.	
2	25.5 Arbitration :		
	with in th of D party of D afore to t arbit intim	e Dispute Redressal Committee (DRC) fails to give its decision in the aforesaid period or the CE/Director fails to give his decision e aforesaid time limit or any party is dissatisfied with the decision ispute Redressal Committee (DRC) / CE / Director, then either y may within a period of 30 days from the receipt of the decision spute Redressal Committee (DRC) / CE / Director or on expiry of esaid time limits available to DRC / CE / Director, may give notice he Managing Director, CWC, New Delhi for appointment of rator on prescribed proforma as per <b>Appendix-G-XIX</b> under hation to the other party.	
(1	exha	a term of contract that each party invoking arbitration must just the aforesaid mechanism of settlement of claims / disputes to invoking arbitration.	
	the s with arbit Arbit of m in-ch arbit	The Managing Director, CWC, New Delhi shall in such case appoint the sole arbitrator or one of the three arbitrators as the case may be within 30 days of receipt of such a request and refer such disputes to arbitration. Wherever the Arbitral Tribunal consists of three Arbitrators, the contractor shall appoint one arbitrator within 30 days of making request for arbitration or of receipt of request by Engineer- in-charge to Managing Director, CWC, New Delhi for appointment of arbitrator, as the case may be, and the two appointed arbitrators shall appoint the third arbitrator who shall act as the Presiding Arbitrator.	
(1	d) In th	e event of –	
	(i)	A party fails to appoint the second Arbitrator, or	
	(ii)	The two appointed Arbitrators fail to appoint the Presiding Arbitrator,	
		the Managing Director, CWC, New Delhi shall appoint the second residing Arbitrator as the case may be.	
	e) (i)	Disputes or difference shall be referred for adjudication through arbitration by a Tribunal having Sole Arbitrator where claimed amount is Rs. 20 crore or less. Where claimed amount is more than Rs. 20 crore, Tribunal shall consist of three Arbitrators as above. The requirements of the Arbitration and Conciliation Act, 1996 (26 of 1996) and any further statutory modifications or re-enactment thereof and the rules made thereunder and for the time being in force, shall be applicable.	
	(ii)	It is a term of this contract that the party invoking arbitration shall give a list of disputes with amounts claimed, if any, in respect of each such dispute alongwith the notice for	

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		appointment of arbitrator and giving reference to the decision of the DRC.		
	(iii)	It is also a term of this contract that in case of sole arbitrator, the arbitrator and in case of Tribunal any member of the Arbitration Tribunal shall be a Graduate Engineer with experience in handling public works engineering contracts at a level not lower than Chief Engineer (Joint Secretary level of Govt. of India) retired from Govt. Service or working in any other Govt. Department/Ministry other than Corporation. This shall be treated as a mandatory qualification to be appointed as arbitrator.		
	<ul> <li>(iv) Parties, before or at the time of appointment of Arbitral Tribunal may agree in writing for fast-track arbitration as per the Arbitration and Conciliation Act, 1996 (26 of 1996) as amended in 2015.</li> <li>(v) Subject to provision in the Arbitration and Conciliation Act, 1996 (26 of 1996) as amended in 2015 whereby the counter-claims, if any can be directly filed before the Arbitrator without any requirement of reference by the appointing authority, the Arbitrator shall adjudicate on only such disputes as are referred to him by the appointing authority and give separate award against each dispute and claim referred to him and in all cases where the total amount of the claims by any party exceeds Rs. 1,00,000, the Arbitrator shall give reasons for the award.</li> </ul>			
	(vi)	It is also a term of the contract that if any fees are payable to the Arbitrator, these shall be paid as approved by the Managing Director, CWC, New Delhi or if not available, as per the provisions of the Act.		
	(vii)	The place of arbitration shall be as mentioned in Schedule 'F'. In case, there is no mention of place of arbitration, the Arbitrator shall determine the place of arbitration.		
	(viii)	The venue of the arbitration shall be such place as may be fixed by the Arbitral Tribunal in consultation with both the parties. Failing any such agreement, then the Arbitral Tribunal shall decide the venue.		
	CLAUSE 2	26		
Contractor to Indemnify Govt. against Patent Rights	The contractor shall fully indemnify and keep indemnified the Corporation against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under or action brought against the Corporation in respect of any such matters as aforesaid, the contractor shall be immediately notified thereof and the contractor shall be at liberty, at his own expense, to settle any dispute or to conduct any litigation that may arise therefrom, provided that the contractor shall not be liable to indemnify the Corporation, if infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Engineer-in-Charge in this behalf.			
	CLAUSE 27			

Lumpsum Provisions in Tender	When the estimate on which a tender is made includes lump sum in respect of parts of the work, the contractor shall be entitled to payment in respect of the items of work involved or the part of the work in question at the same rates as are payable under this contract for such items, or if the part of the work in question is not, in the opinion of the Engineer-in-Charge payable of measurement, the Engineer-in-Charge may at his discretion pay the lump-sum amount entered in the estimate, and the certificate in writing of the Engineer-in-Charge shall be final and conclusive against the contractor with regard to any sum or sums payable to him under the provisions of the Clause.		
	CLAUSE 28		
Action where no Specifications are Specified	In the case of any class of work for which there is no such specifications as referred to in Clause 11, such work shall be carried out in accordance with the Bureau of Indian Standards Specifications. In case, there are no such specifications in Bureau of Indian Standards, the work shall be carried out as per manufacturers' specifications, if not available then as per State / District Specifications.		
	In case there are no such specifications as required above, the work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer-in-Charge.		
	CLAUSE 29		
Withholding and Lien in Respect of Sum Due from Contractor	(i) Whenever any claim or claims for payment of a sum of money arises out of or under the contract or against the contractor, the Engineer- in-Charge or the Corporation shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security, if any deposited by the contractor and for the purpose aforesaid, the Engineer-in-Charge or the Corporation shall be entitled to withhold the Security Deposit, if any, furnished as the case may be and also have a lien over the same, pending finalisation or adjudication of any such claim.		
	In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the contractor, the Engineer-in-Charge or the Corporation shall be entitled to withhold and have a lien to retain to the extent of such claimed amount or amounts referred to above, from any sum or sums found payable or which may at any time thereafter become payable to the contractor under the same contract or any other contract with the Engineer-in-Charge or the Corporation or any contracting person through the Engineer-in-Charge pending finalization of adjudication of any such claim. It is an agreed term of the contract that the sum of money or moneys so withheld or retained under the lien referred to above by the Engineer-in-Charge or Corporation will be kept withheld or retained as such by the Engineer-in-Charge or Corporation till the claim arising out of or under the contract is determined by the arbitrator (if the		
	contract is governed by the Arbitration Clause) by the competent court, as the case may be and that the contractor will have no claim for interest or damages whatsoever on any account in respect of such		

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	withholding or retention under the lien referred to above and duly notified as such to the contractor.		
	For the purpose of this Clause, where the contractor is a Partnership Firm or a Limited Company, the Engineer-in-Charge or the Corporation shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any Partner/Limited Company as the case may be, whether in his individual capacity or otherwise.		
	(ii) The Corporation shall have the right to cause an audit and technical examination of the works and the final bills of the contractor including all supporting vouchers, abstract, etc. to be made after payment of the final bill and if as a result of such audit and technical examination, any sum is found to have been overpaid in respect of any work done by the contractor under the contract or any work claimed to have been done by him under the contract and found not to have been executed, the contractor shall be liable to refund the amount of over-payment and it shall be lawful for the Corporation to recover the same from him in the manner prescribed in Sub-Clause (i) of this Clause or in any other manner legally permissible; and if it is found that the contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by Corporation to the contractor, without any interest thereon whatsoever.		
	Provided that the Corporation shall not be entitled to recover any sum overpaid, nor the contractor shall be entitled to payment of any sum paid short where such payment has been agreed upon between the Superintending Engineer or Executive Engineer on one hand and the contractor on other under any term of the contract permitting payment for work after assessment by the Superintending Engineer or the Executive Engineer.		
	CLAUSE 29A		
Lien in Respect of Claims in other Contracts	<b>of</b> Any sum of money due and payable to the contractor (including the Security Deposit returnable to him) under the contract may be withheld o retained by way of lien by the Engineer-in-Charge or the Corporation o any other contracting person or persons through Engineer-in-Charge against any claim of the Engineer-in-Charge or Corporation or such othe person or persons in respect of payment of a sum of money arising out o or under any other contract made by the contractor with the Engineer- in Charge or the Corporation or with such other person or persons.		
	It is an agreed term of the contract that the sum of money so withheld or retained under this Clause by the Engineer-in-Charge or the Corporation will be kept withheld or retained as such by the Engineer-in-Charge or the Corporation or till his claim arising out of the same contract or any other contract is either mutually settled or determined by the arbitration clause or by the competent court, as the case may be and that the contractor shall have no claim for interest or damages whatsoever on this account or on any other ground in respect of any sum of money withheld or retained under this Clause and duly notified as such to the contractor.		
	CLAUSE 29B		

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Employment of Coal Mining or Controlled Area Labour Not Permissible	The contractor shall not employ coal mining or controlled area labour falling under any category whatsoever on or in connection with the work or recruit labour from area within a radius of 32 km (20 miles) of the controlled area. Subject as above the contractor shall employ imported labour only, i.e. deposit imported labour or labour imported by contractors from area, from which import is permitted.				
	Lab	here ceiling price for imported labour has been fixed by State or Regional abour Committees, not more than that ceiling price shall be paid to the bour by the contractor.			
	out labc Corr The or c	The contractor shall immediately remove any labourer who may be pointed out by the Engineer-in-Charge as being a coal mining or controlled area labourer. Failure to do so shall render the contractor liable to pay to the Corporation a sum calculated at the rate of Rs. 10 per day per labourer. The certificate of the Engineer-in-Charge about the number of coal mining or controlled area labourer and the number of days for which they worked shall be final & binding upon all parties to this contract.			
	It is declared and agreed between the Parties that the aforesaid stipulation in this Clause is one in which the Public are interested within the meaning of the exception in Section 74 of Indian Contract Act, 1872.				
	<u>Exp</u>	Explanation : Controlled Area means the following areas :			
	Parg	Districts of Dhanbad, Hazaribagh, Jamtara - a Sub-Division under Santhal Pargana Commissionery, Districts of Bankuara, Birbhum, Burdwan, District of Bilaspur.			
		Any other area which may be declared a Controlled Area by or with the approval of the Central Government.			
	CLA	USE 30			
Water for Works	(a)	The contractor(s) shall make his/their own arrangements for water required for the work and nothing extra will be paid for the same. This will be subject to the following conditions :			
		(i) That the water used by the contractor(s) shall be fit for construction purposes to the satisfaction of the Engineer-in-Charge.			
		(ii) The Engineer-in-Charge shall make alternative arrangements for supply of water at the risk & cost of contractor(s), if arrangements made by the contractor(s) for procurement of water are in the opinion of the Engineer-in-Charge, unsatisfactory.			
	(b)	Departmental water supply, if available :			
		Water on the request of Contractor and, if available may be supplied to the contractor by the Corporation, subject to the following conditions :			
		conditions :			
		<ul><li>conditions :</li><li>(i) The water charges @ 1% shall be recovered on gross amount of the work done.</li></ul>			
		(i) The water charges @ 1% shall be recovered on gross amount of			

Alternate Water Arrangements	<ul> <li>make alternative arrangements for water at his/their own cost in the event of any temporary break down in the Corporation water main so that the progress of his/their work is not held up for want of water. No claim of damage or refund of water charges will be entertained on account of such break down.</li> <li><b>CLAUSE 30A</b></li> <li>The contractor shall be allowed to construct temporary wells in Corporation land for taking water for construction purposes only after he has got permission of the Engineer-in-Charge in writing. No charges shall be recovered from the contractor on this account, but the contractor shall be required to provide necessary safety arrangements to avoid any accidents or damage to adjacent buildings, roads and service lines. He shall be responsible for any accidents or damage caused due to construction and subsequent maintenance of the wells and shall restore the ground to its original condition after the wells are dismantled on completion of the work.</li> </ul>		
	CLAUSE 31		
Hire of Plant & Machinery	The contractor shall arrange at his own expense all tools, plants, machinery and equipment (hereinafter referred to as T&P) required for execution of the work.		
	CLAUSE 32		
Employment of Technical Staff and Employees	and equipment (hereinafter referred to as T&P) required for execution of the work.		

representative(s) The principal technical representative and other
technical representative(s) shall be present at the site of work for supervision at all times when any construction activity is in progress and also present himself/themselves, as required to the Engineer-in- Charge and/or his designated representative to take instructions. Instructions given to the principal technical representative or other technical representative(s) shall be deemed to have the same force as if these have been given to the contractor.
The principal technical representative and other technical representative(s) shall be actually available at site fully during all stages of execution of work, during recording/checking/test checking of measurements of works and whenever so required by the Engineer- in-Charge and shall also note down instructions conveyed by the Engineer-in- Charge or his designated representative(s) in the site order book and shall affix his/their signature in token of noting down the instructions and in token of acceptance of measurements / checked measurements / test checked measurements. The representative(s) shall not look after any other work. Substitutes, duly approved by Engineer-in-Charge of the work in similar manner as aforesaid, shall be provided in event of absence of any of the representative(s) by more than two days.
If the Engineer-in-Charge, whose decision in this respect is final and binding on the contractor, is convinced that no such technical representative(s) is/are effectively appointed or is/are effectively attending or fulfilling the provision of this Clause, a recovery (non- refundable) shall be effected from the contractor, as specified in Schedule 'F' and the decision of the Engineer-in-Charge, as recorded in the site order book and measurement recorded checked/test checked in Measurement Books shall be final and binding on the contractor.
Further, if the contractor fails to appoint suitable technical Principal technical representative and/or other technical representative(s) and if such appointed persons are not effectively present or are absent by more than two days without duly approved substitute or do not discharge their responsibilities satisfactorily, the Engineer-in-Charge shall have full powers to suspend the execution of the work until such date as suitable other technical representative(s) is/are appointed and the contractor shall be held responsible for the delay so caused to the work. The contractor shall submit a certificate of employment of the technical representative(s) (in the form of copy of Form-16 or CPF deduction issued to the Engineers employed by him) alongwith every on-account bill / final bill and shall produce evidence if at any time so required by the Engineer-in-Charge.
(ii) The contractor shall provide and employ on the site only such technical assistants as are skilled and experienced in their respective fields and such foremen and supervisory staff, as are competent to give proper supervision to the work. The contractor shall provide and employ skilled, semiskilled and unskilled labour as is necessary for proper and timely execution of the work. The Engineer-in-Charge shall be at liberty to object to and require the contractor to remove from the works any person who in his opinion misconducts himself, or is incompetent or negligent in the performance of his duties or whose employment is otherwise considered by the Engineer-in-Charge to be

	undesirable. Such person shall not be employed again at works site without the written permission of the Engineer-in- Charge and the persons so removed shall be replaced as soon as possible by competent substitutes.			
	CLAUSE 33			
Levy/Taxes Payable by Contractor	<ul> <li>(i) GST, Building and other Construction Workers Welfare Cess or a other Tax, Levy or Cess in respect of input for or output by t contract shall be payable by the contractor. The Corporation shall r entertain any claim whatsoever in this respect except as provid under Clause 34.</li> </ul>			
	(ii) The contractor shall deposit Royalty and obtain necessary permit f supply of the red bajri, stone, kankar etc. from local authorities.			
	If pursuant to or under any law, notification or order any royalty, cess or the like becomes payable by the Corporation and does not any time become payable by the contractor to the State Govt., Local Authorities in respect of any material used by the contractor in the works, then in such a case, it shall be lawful to the Corporation and it will have the right and be entitled to recover the amount paid in the circumstances as aforesaid from dues of the contractor.			
	CLAUSE 34			
Conditions for Reimbursement of Levy/Taxes, if Levied after Receipt of Tenders	<ul> <li>(i) All tendered rates shall be inclusive of any tax, levy or cess applicable on last stipulated date of receipt of tender including extension, if any. No adjustment, i.e. increase or decrease shall be made for any variation in the rate of GST, Building &amp; Other Construction Workers Welfare Cess or any tax, levy or cess applicable on inputs.</li> <li>However, effect of variation in rates of GST or Building &amp; Other Construction Workers Welfare Cess or imposition or repeal of any other tax, levy or cess applicable on output of the works contract shall be adjusted on either side increase or decrease.</li> </ul>			
	Provided further that for Building & Other Construction Workers Welfare Cess or any tax (other than GST), levy or cess varied or imposed after the last date of receipt of tender including extension, if any, any increase shall be reimbursed to the contractor only if the contractor necessarily and properly pays such increased amount of taxes/levies/cess.			
	Provided further that such increase including GST shall not be made in the extended period of contract for which the contractor alone is responsible for delay, as determined by Authority for extension of time under Clause 5 in Schedule 'F'.			
	(ii) The contractor shall keep necessary books of accounts and other documents for the purpose of this condition, as may be necessary and shall allow inspection of the same by a duly authorized representative of the Corporation and/or the Engineer-in-Charge and shall also furnish such other information/document as the Engineer-in-Charge may require from time to time.			
	(iii) The contractor shall, within a period of 30 days of the imposition of any such further tax or levy or cess or variation or repeal of such tax or levy or cess give a written notice thereof to the Engineer-in-Charge			

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	that the same is given pursuant to this condition, together with all necessary information relating thereto.		
	CLAUSE 35		
Termination of Contract on Death of Contractor	Without prejudice to any of the rights or remedies under this contract, if the contractor dies, the Chief Engineer / Superintending Engineer on behalf of the Corporation shall have the option of terminating the contract without levy of compensation to the contractor.		
	CLAUSE 36		
If relative Working in CWC then the Contractor not Allowed to Tender	The contractor shall not be permitted to tender for works in the CWC in which his near relative is posted as Accounts Officer or as an officer in any capacity between the grades of the Chief Engineer and Assistant Engineer (both inclusive), responsible for award and execution of contracts. He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Officer in the Central Warehousing Corporation or in the Ministry of Food, Consumer Affairs & Public Distribution, Govt. of India, New Delhi. The contractor would also be debarred from tendering in CWC for five years for any breach of this condition Note: By the term "near relatives" is meant wife, husband, parents &		
	grandparents, children & grandchildren, brothers & sisters, uncles, aunts & cousins and their corresponding in-laws.		
	CLAUSE 37		
No Gazetted Engineer to Work as Contractor within One Year of Retirement	No engineer of Gazetted rank or other Gazetted officers employed in engineering or administrative duties in Central Warehousing Corporation shall work as a contractor or employee of a contractor for a period of one year after his retirement from Corporation service without the previous permission of the Corporation of in writing. This contract is liable to be cancelled, if either the contractor or any of his employees is found at any time to be such a person who had not obtained the permission of Central Warehousing Corporation as aforesaid, before submission of the tender or engagement in the contractor's service, as the case may be.		
	CLAUSE 38		
Theoretical Consumption of Material	<ul> <li>(i) After completion of the work and also at any intermediate stage in the event of non-reconciliation of materials issued, theoretical quantity of materials used in the work shall be calculated on the basis and method given hereunder :</li> <li>(a) Quantity of cement &amp; bitumen shall be calculated on the basis of quantity of cement &amp; bitumen required for different items of work as shown in the Schedule of Rates mentioned in Schedule 'F'. In case any item is executed for which standard constants for the consumption of cement or bitumen are not available in the above-mentioned schedule/statement or cannot be derived from the same, shall be calculated on the basis of standard formula, to be laid down by the Engineer-in-Charge.</li> <li>(b) Theoretical quantity of steel reinforcement or structural steel sections shall be taken as the quantity required as per design or</li> </ul>		
	as authorized by Engineer-in-Charge, including authorized lappages, chairs etc. plus 3% wastage due to cutting into pieces,		

such theoretical quantity being determined and compared with the actual issues each diameter wise, section-wise and category wise separately.		
(c) Theoretical quantity of G.I. & C.I. or other pipes, conduits, wires and cables, pig lead and G.I./M.S. sheets shall be taken as quantity actually required and measured plus 5% for wastage due to cutting into pieces (except in the case of G.I./ M.S. sheets it shall be 10%), such determination & comparison being made diameter wise & category wise.		
(d) For any other material, as per actual requirements.		
(ii) Over the theoretical quantities of materials so computed a variation shall be allowed as specified in Schedule 'F'.		
For Non-Scheduled items, decision of the Superintending Enginee regarding theoretical quantities of materials which should have been actually used, shall be final and binding on the contractor.		
The said action under this Clause is without prejudice to the right of the Corporation to take action against the contractor under any other conditions of contract for not doing the work according to the prescribed specifications.		
CLAUSE 39		
The work (whether fully constructed or not) and all materials, machines, tools & plants, scaffolding, temporary buildings and other things connected therewith shall be at the risk of the contractor until the work has been delivered to the Engineer-in-Charge and a certificate from him to that effect obtained. In the event of the work or any materials properly brought to the site for incorporation in the work being damaged or destroyed in consequence of hostilities or warlike operation, the contractor shall when ordered (in writing) by the Engineer-in-Charge to remove any debris from the site, collect and properly stack or remove in store all serviceable materials salvaged from the damaged work and shall be paid at the contract rates in accordance with the provision of this agreement for the work of clearing the site of debris, stacking or removal of serviceable material and for reconstruction of all works ordered by the Engineer-in-Charge, such payments being in addition to compensation upto the value of the work originally executed before being damaged or destroyed and not paid for.		
In case of works damaged or destroyed, but not already measured and paid for, the compensation shall be assessed by the Engineer-in-Charge upto Rs. 2,00,000 and by the next higher officer concerned for a higher amount. The contractor shall be paid for the damages/destruction suffered and for restoring the material at the rate based on analysis of rates tendered for in accordance with the provision of the contract. The certificate of the Engineer-in-Charge regarding the quality and quantity of materials and the purpose for which they were collected shall be final and binding on all parties to this contract.		
binding on all parties to this contract.		

	<ul><li>(b) for any material etc. not on the site of the work or for any tools, plant, machinery, scaffolding, temporary building and other things not intended for the work</li><li>In the event of the contractor having to carry out reconstruction as aforesaid, he shall be allowed such extension of time for its completion, as is considered reasonable by the Engineer-in-Charge.</li></ul>		
	CLAUSE 40		
Apprentices Act Provisions to be Complied With	The contractor shall comply with the provisions of the Apprentices Act, 1961 and the rules and orders issued thereunder from time to time. If he fails to do so, his failure will be a breach of the contract and the Chief Engineer / Superintending Engineer may, in his discretion, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.		
	CLAUSE 41		
Release of Security Deposit after Labour Clearance	Release of Security Deposit of the work shall not be made till the contractor produces a clearance deposit after labour certificate from the Labour Officer. As soon as the work is virtually complete, the contractor shall apply for the Clearance Certificate to the Labour Officer under intimation to the Engineer-in-Charge. The Engineer-in-Charge, on receipt of the said communication, shall write to the Labour Officer to intimate, if any complaint is pending against the contractor in respect of the work. If no complaint is pending, on record till after 3 months after completion of the work and/or no communication is received from the Labour Officer to this effect till six months after the date of completion, it will be deemed to have received the clearance certificate and the Security Deposit will be released, if otherwise due.		

# **Section - VI**

# (MODEL RULES FOR THE PROTECTION OF HEALTH AND SANITARY ARRANGEMENTS FOR WORKERS)

# **Model Rules**

## For the Protection of Health and Sanitary Arrangements for Workers Employed by Central Warehousing Corporation or its Contractors

#### 1. APPLICATION

These rules shall apply to all buildings and construction works in charge of Central Warehousing Corporation in which twenty or more workers are ordinarily employed or are proposed to be employed in any day during the period when the contract work is in progress.

#### 2. **DEFINITION**

Work place means a place where twenty or more workers are ordinarily employed in connection with construction work on any day during the period when the contract work is in progress.

#### 3. FIRST-AID FACILITIES

- (i) At every work place, there shall be provided and maintained, so as to be easily accessible during working hours, First-Aid Boxes at the rate of not less than one box for 150 contract labour or part thereof ordinarily employed.
- (ii) The First-Aid Box shall be distinctly marked with a red cross on white background and shall contain the following equipments :
  - (a) For work-places in which no. of contract labour employed does not exceed 50 -
    - (1) 6 small sterilised dressings
    - (2) 3 medium size sterilised dressings
    - (3) 3 large size sterilised dressings
    - (4) 3 large sterilised burn dressings
    - (5) 1 (30 ml) bottle containing a two per cent alcoholic solution of iodine
    - (6) 1 (30 ml) bottle containing Salvolatile having the dose and mode of administration, indicated on the label
    - (7) 1 snakebite lancet
    - (8) 1 (30 gm) bottle of potassium permanganate crystals
    - (9) 1 pair scissors
    - (10) 1 copy of the first-aid leaflet issued by the Director General, Factory Advice Service and Labour Institutes, Govt. of India
    - (11) 1 bottle containing 100 tablets (each of 5 gm) of aspirin
    - (12) Ointment for burns
    - (13) A bottle of suitable surgical antiseptic solution
  - (b) For work places in which the no. of contract labour exceed 50 -
    - (1) 12 small sterilised dressings
    - (2) 6 medium size sterilised dressings
    - (3) 6 large size sterilised dressings
    - (4) 6 large size sterilised burn dressings
    - (5) 6 (15 gm) packets sterilised cotton wool
    - (6) 1 (60 ml) bottle containing a two per cent alcoholic solution iodine

- (7) 1 (60 ml) bottle containing Salvolatile having the dose and mode of administration, indicated on the label
- (8) 1 roll of adhesive plaster
- (9) 1 snake bite lancet
- (10) 1 (30 gm) bottle of potassium permanganate crystals
- (11) 1 pair scissors
- (12) 1 copy of the first-aid leaflet issued by the Director General Factory Advice Service and Labour Institutes /Government of India
- (13) A bottle containing 100 tablets (each of 5 gm) of aspirin
- (14) Ointment for burns
- (15) A bottle of suitable surgical antiseptic solution
- (iii) Adequate arrangements shall be made for immediate recoupment of the equipment when necessary.
- (iv) Nothing except the prescribed contents shall be kept in the First-aid box.
- (v) The First-Aid Box shall be kept in the charge of a responsible person who shall always be readily available during the working hours of the work place.
- (vi) A person in charge of the First-aid box shall be a person trained in First-aid treatment in the work places where the number of contract labour employed is 150 or more.
- (vii) In work places where the number of contract labour employed is 500 or more and hospital facilities are not available within easy distance from the works; First-aid posts shall be established and run by a trained compounder. The compounder shall be on duty and shall be available at all hours when the workers are at work.
- (viii) Where work places are situated in places which are not towns or cities, a suitable motor transport shall be kept readily available to carry injured person or person suddenly taken ill to the nearest hospital.

#### 4. DRINKING WATER

- (i) In every work place, there shall be provided and maintained at suitable places, easily accessible to labour, a sufficient supply of cold water, fit for drinking.
- (ii) Where drinking water is obtained from an intermittent public water supply, each work place shall be provided with storage where such drinking water shall be stored.
- (iii) Every water supply or storage shall be at a distance of not less than 15 metre from any latrine drain or other source of pollution. Where water has to be drawn from an existing well, which is within such proximity of latrine, drain or any other source of pollution, the well shall be properly chlorinated before water is drawn from it for drinking. All such wells shall be entirely closed in and be provided with a trap door which shall be dust & water proof.
- (iv) A reliable pump shall be fitted to each covered well, the trap door shall be kept locked and opened only for cleaning or inspection, which shall be done at least once a month.

#### 5. WASHING FACILITIES

- (i) In every work place, adequate and suitable facilities for washing shall be provided and maintained for the use of contract labour employed therein.
- (ii) Separate and adequate cleaning facilities shall be provided for the use of male and female workers.
- (iii) Such facilities shall be conveniently accessible and shall be kept in clean and hygienic condition.

#### 6. LATRINES AND URINALS

- (i) Latrines shall be provided in every work place on the following scale, namely :
  - (a) Where females are employed, there shall be at least one latrine for every 25 females.
  - (b) Where males are employed, there shall be at least one latrine for every 25 males. Provided that, where the number of males or females exceeds 100, it shall be sufficient if there is one latrine for 25 males or females as the case may be upto the first 100 and one for every 50 thereafter.
- (ii) Every latrine shall be under cover and so partitioned off as to secure privacy and shall have a proper door and fastenings.
- (iii) Construction of Latrines : The inside walls shall be constructed of masonry or some suitable heat-resisting non-absorbent materials and shall be cement washed inside and outside at least once a year, Latrines shall not be of a standard lower than borehole system.
- (iv) (a) Where workers of both sexes are employed, there shall be displayed outside each block of latrine and urinal, a notice in the language understood by the majority of the workers "For Men Only" or "For Women Only" as the case may be.
  - (b) The notice shall also bear the figure of a man or of a woman, as the case may be.
- (v) There shall be at least one urinal for male workers upto 50 and one for female workers upto 50 employed at a time, provided that where the number of male or female workmen, as the case may be, exceeds 500, it shall be sufficient, if there is one urinal for every 50 males or females upto the first 500 and one for every 100 or part thereafter.
- (vi) (a) The latrines and urinals shall be adequately lighted and shall be maintained in a clean and sanitary condition at all times.
  - (b) Latrines and urinals other than those connected with a flush sewage system, shall comply with the requirements of the Public Health Authorities.
- (vii) Water shall be provided by means of tap or otherwise, so as to be conveniently accessible in or near the latrines and urinals.
- (viii) Disposal of Excreta : Unless otherwise arranged for by the local sanitary authority, arrangements for proper disposal of excreta by incineration at the work place shall be made by means of a suitable incinerator. Alternately excreta may be disposed of by putting a layer of night soil at the bottom of a pucca tank prepared for the purpose and covering it with a 15 cm layer of waste or refuse and then covering it with a layer of earth for a fortnight (when it will turn to manure).
- (ix) The contractor shall at his own expense, carry out all instructions issued to him by the Engineer-in-Charge to effect proper disposal of night soil and other conservancy work in respect of the contractor's workmen or employees on the site. The contractor shall be responsible for payment of any charges which may be levied by Municipal or Cantonment Authority for execution of such on his behalf.

#### 7. **PROVISION OF SHELTER DURING REST**

At every place there shall be provided, free of cost, four suitable sheds, two for meals and the other two for rest, separately for the use of men and women labour. The height of each shelter shall not be less than 3 metres (10 ft) from the floor level to the lowest part of the roof. These shall be kept clean and the space provided shall be on the basis of 0.6 sqm (6 sft) per head.

Provided that the Engineer-in-Charge may permit, subject to his satisfaction, a portion of the building under construction or other alternative accommodation, to be used for the purpose.

#### 8. CRECHES

- At every work place, at which 20 or more women worker are ordinarily employed, there shall be provided two rooms of reasonable dimensions for the use of their children under the age of six years. One room shall be used as a play room for the children and the other as their bedroom. The rooms shall be constructed with specifications as per Clause 19H (ii) a, b & c.
- (ii) The rooms shall be provided with suitable and sufficient openings for light and ventilation. There shall be adequate provision of sweepers to keep the places clean.
- (iii) The contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the bed room.
- (iv) The contractor shall provide one Ayaa to look after the children in the Creche when no. of women workers does not exceed 50 and two when the no. exceeds 50.
- (v) Use of the rooms earmarked as Creche shall be restricted to children, their attendants and mothers of the children.

#### 9. CANTEENS

- (i) In every work place where the work regarding the employment of contract labour is likely to continue for six months and where in contract labour, numbering one hundred or more are ordinarily employed, an adequate canteen shall be provided by the contractor for the use of such contract labour.
- (ii) The canteen shall be maintained by the contractor in an efficient manner.
- (iii) The canteen shall consist of at least a dining hall, kitchen, storeroom, pantry and washing places separately for workers and utensils.
- (iv) The canteen shall be sufficiently lighted at all times when any person has access to it.
- (v) The floor shall be made of smooth and impervious materials and inside walls shall be lime washed or colour washed at least once in each year. Provided that the inside walls of the kitchen shall be lime-washed every four months.
- (vi) Premises of the canteen shall be maintained in a clean and sanitary condition.
- (vii) Waste water shall be carried away in suitable covered drains and shall not be allowed to accumulate so as to cause a nuisance.
- (viii) Suitable arrangements shall be made for the collection and disposal of garbage.
- (ix) The dining hall shall accommodate at a time 30 per cent of the contract labour working at a time.
- (i) Floor area of the dining hall, excluding the area occupied by the service counter and any furniture except tables and chairs shall not be less than one square metre (10 sqft) per diner to be accommodated as prescribed in Sub-Rule 9.
- (ii) (a) A portion of the dining hall and service counter shall be partitioned off and reserved for women workers in proportion to their number.
  - (b) Washing places for women shall be separate and screened to secure privacy.
- (xii) Sufficient tables, stools, chairs or benches shall be available for the number of diners to be accommodated as prescribed in Sub-Rule 9.
- (xiii) (a) 1. There shall be provided and maintained sufficient utensils, crockery, furniture and any other equipment, necessary for the efficient running of the canteen.
  - 2. The furniture utensils and other equipment shall be maintained in a clean and hygienic condition.
  - (b) 1. Suitable clean clothes for the employees serving in the canteen shall be provided and maintained.

- 2. A service counter, if provided, shall have top of smooth & impervious material.
- 3. Suitable facilities including an adequate supply of hot water shall be provided for the cleaning of utensils & equipments.
- (xiv) Food stuffs and other items to be served in the canteen shall be in conformity with the normal habits of the contract labour.
- (xv) The charges for food stuffs, beverages and any other items served in the canteen shall be based on 'No Profit, No Loss' and shall be conspicuously displayed in the canteen.
- (xvi) In arriving at the price of foodstuffs and other article served in the canteen, the following items shall not be taken into consideration as expenditure namely :
  - (a) Rent of land and building
  - (b) Depreciation and maintenance charges for the building & equipments provided for the canteen
  - (c) Cost of purchase, repairs and replacement of equipments including furniture crockery, cutlery and utensils
  - (d) Water charges and other charges incurred for lighting and ventilation
  - (e) Interest and amounts spent on the provision and maintenance of equipments provided for the canteen
- (xvii) Accounts pertaining to the canteen shall be audited once every 12 months by registered accountants and auditors.

#### **10. ANTI-MALARIAL PRECAUTIONS**

The contractor shall at his own expense, conform to all anti-malarial instructions given to him by the Engineer-in-Charge including the filling up of any borrow pits which may have been dug by him.

**11.** The above rules shall be incorporated in the contracts and in notices inviting tenders and shall form integral part of the contracts.

#### 12. AMENDMENTS

Government may, from time to time, add to or amend these rules and issue directions, it may consider necessary for the purpose of removing any difficulty which may arise in the administration thereof.

#### **13.** COVID- CONSTRUCTION SITES PROTOCOLS

Contractor shall maintain health safety of their employees, labour, workers, vendors deployed by them at the site of work and shall follow all guidelines & protocol issued by State & Central Govt. with respect of COVID. Contractor shall ensure vaccination of workers deployed for the job at construction site. All protocols related to the Covid covering preventive measure, health advisory etc as issued by local administration, Govt. shall be followed without any additional claim or compensation.

# **Section - VII**

# (Contractor's Labour Regulations)

# CWC's/CPWD's Contractor's Labour Regulations THESE REGLATIONS SHALL MUTATIS-MUTANDIS APPLY TO THE WORK OF THE CENTRAL WAREHOUSING CORPORATION

#### 1. SHORT TITLE

These regulations may be called the CPWD / PWD (DA) Contractors' Labour Regulations.

#### 2. **DEFINITIONS**

- (i) Workman means any person employed by C.P.W.D. / PWD (DA) or its contractor directly or indirectly through a sub-contractor with or without - knowledge of the Central Public Works Department / PWD (DA) to do any skilled, semiskilled or unskilled manual, supervisory, technical or clerical work for hire or reward, whether the terms of employment are expressed or implied, but does not include any person :
  - (a) Who is employed mainly in a managerial or administrative capacity; or
  - (b) Who, being employed in a supervisory capacity draws wages exceeding five hundred rupees per mensem or exercises either by the nature of the duties attached to the office or by reason of powers vested in him, functions mainly of managerial nature; or
  - (c) Who is an out worker, that is to say, person to whom any article or materials are given out by or on behalf of the principal employers to be made up cleaned, washed, altered, ornamental finished, repaired adopted or otherwise processed for sale for the purpose of the trade or business of the principal employers and the process is to be carried out either in the home of the out worker or in some other premises, not being premises under the control and management of the Principal Employer.

No person below the age of 14 years shall be employed to act as a workman.

- (ii) **Fair Wages** means wages whether for time or piece work, fixed and notified under the provisions of the Minimum Wages Act from time to time.
- (iii) **Contractors** shall include every person who undertakes to produce a given result other than a mere supply of goods or articles of manufacture through contract labour or who supplies contract labour for any work and includes a sub-contractor.
- (iv) **Wages** shall have the same meaning as defined in the Payment of Wages Act.
- **3.** (i) Normally working hours of an adult employee should not exceed 9 hours a day. The working day shall be so arranged that inclusive of interval for rest, if any, it shall not spread over more than 12 hours on any day.
  - (ii) When an adult worker is made to work for more than 9 hours on any day or for more than 48 hours in any week, he shall be paid over time for the extra hours put in by him at double the ordinary rate of wages.
  - (iii) (a) Every worker shall be given a weekly holiday normally on a Sunday, in accordance with the provisions of the Minimum Wages (Central) Rules 1960 as amended from time to time irrespective of whether such worker is governed by the Minimum Wages Act or not.
    - (b) Where the minimum wages prescribed by the Govt. under the Minimum Wages Act are not inclusive of the wages for the weekly day of rest, the worker shall be entitled to rest day wages at the rate applicable to the next preceding day, provided he has worked under the same contractor for a continuous period of not less than 6 days.

(c) Where a contractor is permitted by the Engineer-in-Charge to allow a worker to work on a normal weekly holiday, he shall grant a substituted holiday to him for the whole day on one of the five days immediately before or after the normal weekly holiday and pay wages to such worker for the work performed on the normal weekly holiday at overtime rate.

#### 4. DISPLAY OF NOTICE REGARDING WAGES ETC.

The contractor shall, before he commences his work on contract, display and correctly maintain and continue to display and correctly maintain in a clear & legible condition in conspicuous places on the work, notices in English and in the local Indian languages spoken by the majority of the workers giving the minimum rates of wages fixed under Minimum Wages Act, the actual wages being paid, the hours of work for which such wage are earned, wages periods, dates of payments of wages and other relevant information as per **Appendix-G-III**.

#### 5. PAYMENT OF WAGES

- (i) The contractor shall fix wage periods in respect of which wages shall be payable.
- (ii) No wage period shall exceed one month.
- (iii) The wages of every person employed as contract labour in an establishment or by a contractor where less than one thousand such persons are employed shall be paid before the expiry of seventh day and in other cases before the expiry of tenth day after the last day of the wage period in respect of which the wages are payable.
- (iv) Where the employment of any worker is terminated by or on behalf of the contractor, the wages earned by him shall be paid before the expiry of the second working day from the date on which his employment is terminated.
- (v) All payment of wages shall be made on a working day at the work premises and during the **working** time and on a date notified in advance and in case the work is completed before the expiry of the wage period, final payment shall be made within 48 hours of the last working day.
- (vi) Wages due to every worker shall be paid to him direct by contractor through bank or ECS or online transfer to his Bank account.
- (vii) All wages shall be paid through Bank or ECS or online transfer
- (viii) Wages shall be paid without any deductions of any kind except those specified by the Central Government by general or special order in this behalf or permissible under the Payment of Wages Act, 1956.
- (ix) A notice showing the wages period and the place and time of disbursement of wages shall be displayed at the place of work and a copy sent by the contractor to the Engineer-in-Charge under acknowledgment.
- (x) It shall be the duty of the contractor to ensure the disbursement of wages through bank account of labour.
- (xi) The contractor shall obtain from the Junior Engineer or any other authorised representative of the Engineer-in-Charge as the case may be, a certificate under his signature at the end of the entries in the "Register of Wages" or the "Wage-cum-Muster Roll" as the case may be in the following form :

"Certified that the amount shown in Column No. \_\_\_\_\_ has been paid to the workman concerned **through his/her bank account** on \_/\_/\_\_\_ at \_\_\_\_."

#### 6. FINES AND DEDUCTIONS WHICH MAY BE MADE FROM WAGES

(i) The wages of a worker shall be paid to him without any deduction of any kind except the following :

- (a) Fines
- (b) Deductions for absence from duty i.e. from the place or the places where by the terms of his employment he is required to work. The amount of deduction shall be in proportion the period for which he was absent.
- (c) Deduction for damage to or loss of goods expressly entrusted to the employed person for custody, or for loss of money or any other deduction which he is required to account, where such damage or loss is directly attributable to his neglect or default.
- (d) Deduction for recovery of advances or for adjustment of overpayment of wages, advances granted shall be entered in a register.
- (e) Any other deduction which the Central Government may from time to time allow.
- (ii) No fines should be imposed on any worker save in respect of such acts and omissions on his part as have been approved of by the Chief Labour Commissioner.

<u>Note</u>: An approved list of Acts and Omissions for which fines can be imposed is enclosed at **Appendix-G-X**.

- (iii) No fine shall be imposed on a worker and no deduction for damage or loss shall be made from his wages until the worker has been given an opportunity of showing cause against such fines or deductions.
- (iv) The total amount of fine which may be imposed in any one wage period on a worker shall not exceed an amount equal to three paise in a rupee of the total wages, payable to him in respect of that wage period.
- (v) No fine imposed on any worker shall be recovered from him by instalment, or after the expiry of sixty days from the date on which it was imposed.
- (vi) Every fine shall be deemed to have been imposed on the day of the act or omission in respect of which it was imposed.

#### 7. LABOUR RECORDS

- (i) The contractor shall maintain a **Register of persons employed** on work on contract in Form XIII of the CL (R&A) Central Rules 1971 (**Appendix-G-IV**).
- (ii) The contractor shall maintain a Muster Roll register in respect of all workmen employed by him on the work under Contract in Form XVI of the CL (R&A) Rules 1971 (**Appendix-G-V**).
- (iii) The contractor shall maintain a Wage Register in respect of all workmen employed by him on the work under contract in Form XVII of the CL (R&A) Rules 1971 (**Appendix-G-VI**).
- (iv) Register of Accident The contractor shall maintain a register of accidents in such form as may be convenient at the work place but the same shall include the following particulars :
  - (a) Full particulars of the labourers who met with accident
  - (b) Rate of Wages
  - (c) Sex
  - (d) Age
  - (e) Nature of accident and cause of accident
  - (f) Time and date of accident
  - (g) Date and time when admitted in Hospital
  - (h) Date of discharge from the Hospital
  - (i) Period of treatment and result of treatment

- (j) Percentage of loss of earning capacity and disability as assessed by Medical Officer
- (k) Claim required to be paid under Workmen's Compensation Act
- (I) Date of payment of compensation
- (m) Amount paid with details of the person to whom the same was paid
- (n) Authority by whom the compensation was assessed
- (o) Remarks
- (v) The contractor shall maintain a Register of Fines in the Form XII of the CL (R&A) Rules 1971 (Appendix-G- XI)
- (vi) The contractor shall display in a good condition and in a conspicuous place of work the approved list of Acts & Omissions for which fines can be imposed (Appendix-G-X)
- (vii) The contractor shall maintain a Register of Deductions for damage or loss in Form XX of the CL (R&A) Rules 1971 (**Appendix-G-XII**)
- (viii) The contractor shall maintain a Register of Advances in Form XXIII of the CL (R&A) Rules 1971 (**Appendix-G-XIII**)
- (ix) The contractor shall maintain a Register of Overtime in Form XXIII of the CL (R&A) Rules 1971 (**Appendix-G-XIV**)

#### 8. ATTENDANCE CARD-CUM-WAGE SLIP

- (i) The contractor shall issue an Attendance Card-cum-Wage Slip to each workman employed by him in the specimen form at (**Appendix-G-VII**).
- (ii) The Card shall be valid for each wage period.
- (iii) The contractor shall mark attendance of each workman on the card twice each day, once at the commencement of the day and again after the rest interval, before he actually starts work.
- (iv) The Card shall remain in possession of the worker during the wage period under reference.
- (v) The contractor shall complete the Wage Slip portion on the reverse of the card at least a day prior to the disbursement of wages in respect of the wage period under reference.
- (vi) The contractor shall obtain signature or thumb impression of the worker on the Wage Slip at the time of disbursement of wages and retain the card with himself.

#### 9. EMPLOYMENT CARD

The contractor shall issue an Employment Card in Form XIV of the CL (R&A) Central Rules 1971 to each worker within three days of the employment of the worker (**Appendix-G-VIII**).

#### **10. SERVICE CERTIFICATE**

On termination of employment for any reason whatsoever, the contractor shall issue to the workman whose services have been terminated, a Service Certificate in Form XV of the CL (R&A) Central Rules 1971 (**Appendix-G-IX**).

#### **11. PRESERVATION OF LABOUR RECORDS**

All records required to be maintained under Regulations Nos. 6 & 7 shall be preserved in original for a period of three years from the date of last entries made in them and shall be made available for inspection by the Engineer-in-Charge or Labour Officer or any other officers authorised by the Ministry of Urban Development in this behalf.

#### 12. POWER OF LABOUR OFFICER TO MAKE INVESTIGATIONS OR ENQUIRY

The Labour Officer or any person authorised by Corporation on their behalf shall have power to make enquires with a view to ascertaining and enforcing due and proper observance of Fair Wage Clauses and the Provisions of these Regulations. He shall investigate into any complaint regarding the default made by the contractor or subcontractor in regard to such provision.

#### **13. REPORT OF LABOUR OFFICER**

The Labour Officer or other persons authorised as aforesaid shall submit a report of result of his investigation or enquiry to the Executive Engineer concerned indicating the extent, if any, to which the default has been committed with a note that necessary deductions from the contractor's bill be made and the wages and other dues be paid to the labourers concerned. In case an appeal is made by the contractor under Clause 13 of these regulations, actual payment to labourers will be made by the Executive Engineer after Chief Engineer / Superintending Engineer has given his decision on such appeal.

The Executive Engineer shall arrange payments to the labour concerned within 45 days from the receipt of the report from the Labour Officer or the Chief Engineer / Superintending Engineer, as the case may be.

#### 14. APPEAL AGAINST THE DECISION OF LABOUR OFFICER

Any person aggrieved by the decision and recommendations of the Labour Officer or other person so authorised may appeal against such decision to the Chief Engineer / Superintending Engineer concerned within 30 days from date of decision, forwarding simultaneously a copy of his appeal to the Executive Engineer, but subject to such appeal, the decision of the officer shall be final and binding upon the contractor.

#### 15. PROHIBITION REGARDING REPRESENTATION THROUGH LAWYER

- (i) A workman shall be entitled to be represented in any investigation or enquiry under these regulations by :
  - (a) An officer of a registered Trade Union of which he is a member.
  - (b) An officer of a federation of Trade Unions to which the Trade Union referred to in Clause (a) is affiliated.
  - (c) Where the employer is not a member of any registered Trade Union, by an officer of a registered trade union, connected with the industry in which the worker is employed or by any other workman employed in the industry in which the worker is employed.
- (ii) An employer shall be entitled to be represented in any investigation or enquiry under these regulations by :
  - (a) An officer of an association of employers of which he is a member.
  - (b) An officer of a Federation or Associations of Employers to which association referred to in Clause (a) is affiliated.
  - (c) Where the employer is not a member of any association of employers, by an officer of association of employer connected with the industry in which the employer is engaged or by any other employer, engaged in the industry in which the employer is engaged.
- (iii) No party shall be entitled to be represented by a legal practitioner in any investigation or enquiry under these regulations.

#### **16. INSPECTION OF BOOKS AND SLIPS**

The contractor shall allow inspection of all the prescribed labour records to any of his workers or to his agent at a convenient time and place after due notice is received or

to the Labour Officer or any other person, authorised by the Central Government on his behalf.

#### **17. SUBMISSIONS OF RETURNS**

The contractor shall submit periodical returns as may be specified from time to time.

#### **18. AMENDMENTS**

The Central Government may from time to time add to or amend the regulations and on any question as to the application / interpretation or effect of those regulations, the decision of the Superintending Engineer concerned shall be final.

#### ADDITIONAL PROVISIONS FOR LABOUR

**19. Apprentices Act :** The Contractor shall be responsible to ensure compliance with the provisions of the Apprentices Act, 1961 and the Rules and Orders issued thereunder from time to time in respect of apprentices directly or through petty Contractors or sub-contractors employed by him for the purpose of carrying out the Contract.

If the Contractor directly or through petty Contractors or sub-contractors fails to do so, his failure will be a breach of the contract and the Corporation may, in its discretion, rescind the contract. The Contractor shall also be liable for any pecuniary liability arising on account of any violation of the provisions of the Act.

20. Provisions of Payments of Wages Act : The Contractor shall comply with the provisions of the Payment of Wages Act, 1936 and the rules made thereunder in respect of all employees employed by him either directly or through petty Contractors or sub-contractors in the works. If in compliance with the terms of the contract, the Contractor directly or through petty Contractors or sub-contractors shall supply any labour to be used wholly or partly under the direct orders and control of the Engineer whether in connection with the works to be executed hereunder or otherwise for the purpose of the Engineer, such labour shall nevertheless be deemed to comprise persons employed by the Contractor and any moneys which may be ordered to be paid by the Engineer shall be deemed to be moneys payable by the Engineer on behalf of the Contractor and the Engineer may on failure of the Contractor to repay such money to the Corporation deduct the same from any moneys due to the Contractor in terms of the contract. The Corporation shall be entitled to recover the same from Contractor's bills/Security Deposit or any other dues of Contractor with the Govt, of India all moneys paid or payable by the Corporation by way of compensation of aforesaid or for costs of expenses in connection with any claim thereto and the decision of the Engineer upon any question arising out of the effect or force of this Clause shall be final and binding upon the Contractor.

#### 21. Provisions of Contract Labour (Regulation and Abolition) Act, 1970 :

- **21.(1)** The Contractor shall comply with the provision of the Contract Labour (Regulation and Abolition) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules 1971 as modified from time to time, wherever applicable and shall also indemnify the Corporation from and against any claims under the aforesaid Act and the Rules.
- **21.(2)** The Contractor shall obtain a valid license under the aforesaid Act as modified from time to time before the commencement of the work and continue to have a valid license until the completion of the work. Any failure to fulfil the requirement shall attract the penal provision of the Act.
- Provisions of Employees Provident Fund and Miscellaneous Provisions Act, 1952
   The Contractor shall comply with the provisions of Para 30 & 36-B of the Employees

Provident Fund Scheme, 1952; Para 3 & 4 of Employees' Pension Scheme, 1995; and Para 7 & 8 of Employees Deposit Linked Insurance Scheme, 1976; as modified from time to time through enactment of "Employees Provident Fund & Miscellaneous Provisions Act, 1952", wherever applicable and shall also indemnify the Corporation from and against any claims under the aforesaid Act and the Rules.

# 23. Provisions of "The Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996" and "The Building and Other Construction Workers' Welfare Cess Act, 1996" :

The tenderers, for carrying out any construction work, shall get themselves registered with the Registering Officer under Section-7 of the Building and Other Construction Workers Act, 1996 and Rules made thereto by the concerned State Govt., and submit Certificate of Registration issued by Registering Officer of the concerned State Govt. (Labour Dept.). The Cess shall be deducted from contractor's bills as per provisions of the Act.

- 24. **Reporting of Accidents :** The Contractor shall be responsible for the safety of all employees directly or through petty Contractors or sub-contractor employed by him on the works and shall report serious accidents to any of them however and wherever occurring on the works to the Engineer or the Engineers Representative and shall make every arrangements to render all possible assistance.
- **25. Provision of Workmen's Compensation Act :** In every case in which by virtue of the provisions of Section 12 Sub-Section (1) of the Workmen's Compensation Act 1923, Contractor is to abide by the provisions of various labour laws in terms of above clause.
- **26. Corporation not to Provide Quarters for Contractors :** No quarters shall normally be provided by the Corporation for the accommodation of the Contractor or any of his staff employed on the work. In exceptional cases where accommodation is provided to the Contractor at the Corporation's discretion, recoveries shall be made at such rates as may be fixed by the Corporation for the full rent of the buildings and equipments therein as well as charges for electric current, water supply and conservancy.
- **27. Labour Camps :** The Contractor shall at his own expense make adequate arrangements for the housing, supply of drinking water and provision of latrines and urinals for his staff and workmen, directly or through the petty Contractors or sub-contractors and for temporary creche (Bal-Mandir) where 50 or more women are employed at a time. Suitable sites on Corporation land, if available, may be allotted to the Contractor for the erection of labour camps, either free of charge or on such terms and conditions that may be prescribed by the Corporation. All camp sites shall be maintained in clean and sanitary conditions by the Contractor at his own cost.
- **28. Compliance to Rules for Employment of Labour :** The Contractor(s) shall conform to all laws, bye-laws rules and regulations for the time being in force pertaining to the employment of local or imported labour and shall take all necessary precautions to ensure and preserve the health and safety of all staff employed directly or through petty contractors or sub-contractors on the works.
- **29. Preservation of Peace :** The Contractor shall take requisite precautions and use his best endeavours to
  - (i) Prevent any riotous or unlawful behaviour by or amongst his workmen and other employed directly or through the petty Contractors or sub-contractors on the works and for the preservation of peace and protection of the inhabitants and
  - (ii) Security of property in the neighbourhood of the works. In the event of the Corporation requiring the maintenance of a Special Police Force at or in the vicinity of the site during

the tenure of works, the expenses thereof shall be borne by the Contractor and if paid by the Corporation shall be recoverable from the Contractor.

- **30. Sanitary Arrangements :** The Contractor shall obey all sanitary rules and carry out all sanitary measures that may from time to time be prescribed by the Corporation Medical Authority and permit inspection of all sanitary arrangements at all times by the Engineer, the Engineer's Representative or the Medical Staff of the Corporation. Should the Contractor fail to make the adequate sanitary arrangements, these will be provided by the Corporation and the cost thereof recovered from the Contractor.
- **31. Outbreak of Infectious Disease :** The Contractor shall remove from his camp such labour and their families as refuse protective inoculation and vaccination when called upon to do so by the Engineer or the Engineer's Representative on the advice of the Corporation Medical Authority. Should cholera, plague, or other infectious disease break out, the Contractor shall burn the huts, beddings, clothes and other belongings of or used by the infected parties and promptly erect new huts on healthy sites as required by the Engineer, failing which within the time specified in the Engineer's requisition, the work may be done by the Corporation and the cost thereof recovered from the Contractor.
- **32. Medical Facilities at Site :** The Contractor shall provide medical facilities at the site as may be prescribed by the Engineer on the advice of the Corporation's Medical Authority in relation to the strength of the Contractor's resident staff and workmen.

# **REGISTER OF MATERNITY BENEFITS [Clause 19F]**

Name and Address of the Contractor(s)

Name and Location of the Work

Name of the Employee	Father's/Husband's Name	Nature of Employment	Period of Actual Appointment	Date on which Notice of Confinement Given
1	2	3	4	5

#### Date on which Maternity Leave Commenced and Ended

Date of	In case of I	Delivery	In case of Miscarriage						
Delivery	Commenced	Ended	Commenced	Ended					
6	7	8	9	10					

#### Leave Pay Paid to the Employee

In case of	Delivery	In case of M	iscarriage	Domarka
Rate of Leave Pay	Amount Paid	Rate of Leave Pay	Remarks	
11	12	13	14	15

#### APPENDIX – G-II

#### **SPECIMEN FORM OF THE REGISTER**

# REGARDING MATERNITY BENEFIT ADMISSIBLE TO THE CONTRACTOR'S LABOUR IN CENTRAL WAREHOUSING CORPORATION WORKS

Name and address of the contractor \_\_\_\_\_

Name and location of the work \_\_\_\_\_

- 1. Name of the woman and her husband's name
- 2. Designation
- 3. Date of appointment
- 4. Date with months and years in which she is employed
- 5. Date of discharge/dismissal, if any
- 6. Date of production of certificates in respect of pregnancy
- 7. Date on which the woman informs about the expected delivery
- 8. Date of delivery/miscarriage/death
- 9. Date of production of certificate in respect of delivery/miscarriage
- 10. Date with the amount of maternity/death benefit paid in advance of expected delivery
- 11. Date with amount of subsequent payment of maternity benefit
- 12. Name of the person nominated by the woman to receive the payment of the maternity benefit after her death
- 13. If the woman dies, the date of her death, the name of the person to whom maternity benefit amount was paid, the month thereof and the date of payment
- 14. Signature of the contractor authenticating entries in the register
- 15. Remarks column for the use of Inspecting Officer

#### APPENDIX – G-III

# **Labour Board**

*	Name of Work	
*	Name of Contractor	
*	Address of Contractor	
*	Name and Address of Corporate Office	
*	Name and Address of CWC Labour Officer	
*	Name of Labour Enforcement Officer	
*	Address of Labour Enforcement Officer	

SL	Category	Minimum Wage Fixed	Actual Wage Paid	Number Present	Remarks

- Weekly Holiday
- ✤ Wage Period
- Date of Payment of Wages
- Working Hours
- Rest Interval

#### **APPENDIX – G-IV**

#### FORM XIII [See Rule 75]

#### **Register of Workman Employed by Contractor**

Name & Address of Contractor \_\_\_\_\_

Name & Address of Establishment under which Contract is Carried on \_\_\_\_\_\_

Nature & Location of Work \_\_\_\_\_

Name & Address of Principal Employer \_\_\_\_\_

SL	Name & Surname of Workman	Age & Sex	Father' s/ Husband' s Name	Nature of Employment/ Designation	Permanent Home Address of the Workman (Village and Tehsil, Taluk and District)	Local Address	Date of Commencement of Employment	Signature or Thumb Impression of the Workman	Date of Termination of Employment	Reasons for Termination	Remarks
1	2	3	4	5	6	7	8	9	10	11	12

#### APPENDIX -- G- V

# **FORM XVI** [(See Rule 78 (2) (a)]

## **MUSTER ROLL**

*	Name & Address of Contractor
*	Name & Address of Establishment under which Contract is Carried on
*	Nature & Location of Work

Name & Address of Principal Employer \_\_\_\_\_\_ For the Month/Fortnight \_\_\_\_\_\_

SL	Name of Workman	Sex	Father's/Husband's Name			Remarks			
		UCA		1	2	3	4	5	Renarko
1	2	3	4		-	5	-	-	6

#### **APPENDIX – G- VI**

**FORM XVII** [See Rule 78 (2) (a)]

## **REGISTER OF WAGE**

Name & Address of Contractor \_\_\_\_\_  $\Leftrightarrow$ 

Name & Address of Establishment under which Contract is Carried on \_\_\_\_\_\_  $\Leftrightarrow$ 

- Nature & Location of Work  $\Leftrightarrow$
- Name & Address of Principal Employer \_\_\_\_\_\_ Wage Period : Monthly / Fortnightly \_\_\_\_\_\_  $\Leftrightarrow$

									Wages	Earned		(Indicate		o nan	or his
SL	Name of Workman	SL in the Register ( Workman	Designation / Nature Work done	No. of Days Worked	Unit of Work Done	Daily Rate of Wages / Rate	Basic Wages	Dearness Allowance	Over-time	Other Cash Payments (Indicate Nature)	Total	Deduction, if any (Ind Nature)	Net Amount Paid	Signature / Thumb Impression of Workman	Initials of Contractor o Representative
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

# WAGE CARD

Wage Card No.	
Name & Address of Contractor	Date of issue
Name and Location of Work	Designation
Name of Workman	Month / Fortnight
Rate of Wages	_

Time	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Morning																															
Evening																															
Initial																															

Received from \_\_\_\_\_\_ on account of my wages.

Signature

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#### APPENDIX – G-VII-B

(Reverse)

#### FORM XIX

[See Rule 78(2) (b)]

## WAGES SLIP

Name and Address of Contractor Name and Father's / Husband's Name of Workman Nature and Location of Work \_\_\_\_\_ For the Week / Fortnight / Month Ending \_\_\_\_\_ 1. No. of Days Worked 2. No. of Units Worked in case of Piece Rate Workers \_\_\_\_\_ 3. Rate of Daily Wages/piece Rate \_\_\_\_\_ 4. Amount of Overtime Wages 5. Gross Wages Payable \_\_\_\_\_ 6. Deduction, if any \_\_\_\_\_ 7. Net Amount of Wages Paid \_\_\_\_\_

> Initial of the Contractor or His Representative

#### APPENDIX –G- VIII

#### FORM XIV

[See Rule 76]

# **EMPLOYMENT CARD**

Name a	and Address of Contractor									
Name a	me and Address of Establishment under which Contract is carried on									
Name o	of Work and Location of Work									
Name a	and Address of Principal Employer									
1.	Name of the Workman									
2.	SL in the Register of Workman Employed									
3.	Nature of Employment / Designation									
4.	Wage Rate (with particulars of unit in case of piece work)									
5.	Wage Period									
6.	Tenure of Employment									
7.	Remarks									

Signature of Contractor

#### APPENDIX – G-IX

FORM XV [See Rule 77]

# SERVICE CERTIFICATE

Name & Address of Contractor
Nature & Location of Work
Name & Address of Workman
Age or Date of Birth
Identification Mark
Father's / Husband's Name
Name and Address of Establishment in/under which Contract is carried on
Name and Address of Principal Employer

SL	Total Period for which Employed		Nature of Work	Rates of Wage (with Particulars of	Remarks
	From	То	Done	Unit in case of Piece Work)	Reillarks
1	2	3	4	5	6

Signature

# LIST OF ACTS AND OMISSIONS FOR WHICH FINES CAN BE IMPOSED

{In accordance with Rule 7 (v) of CPWD's Contractor's Labour Regulations, to be displayed prominently at the site of Work, both in English and local Language}

- 1. Wilful insubordination or disobedience, whether alone or in combination with other
- 2. Theft, fraud or dis-honesty in connection with the contractors beside a business or property of Central Warehousing Corporation
- 3. Taking or giving bribes or any illegal gratifications
- 4. Habitual late attendance
- 5. Drunkenness, fighting, riotous or disorderly or indifferent behaviour
- 6. Habitual negligence
- 7. Smoking near or around the area where combustible or other materials are locked
- 8. Habitual indiscipline
- 9. Causing damage to work in the progress or to property of the Central Warehousing Corporation or of the Contractor
- 10. Sleeping on duty
- 11. Malingering or slowing down work
- 12. Giving of false information regarding name, age, father's name etc.
- 13. Habitual loss of wage cards, supplied by the employers
- 14. Unauthorised use of employer's property of manufacturing or making of unauthorised particles at the work place
- 15. Bad workmanship in construction and maintenance by skilled workers which is not approved by the Corporation and for which the contractors are compelled to undertaken rectifications
- 16. Making false complaints and/or misleading statements
- 17. Engaging on trade within the premises of the establishments
- 18. Any unauthorised divulgence of business affairs of the employees
- 19. Collection or canvassing for collection of any money within the premises of an establishment unless authorised by the employer
- 20. Holding meeting inside the premises without previous sanction of the employers
- 21. Threatening or intimidating any workman or employee during the working hours within the premises

# **APPENDIX – G-XI**

# FORM XII

[See Rule 78 (2)(d)]

# **REGISTER OF FINES**

Name & Address of Contractor \_\_\_\_\_\_

Name & Address of Establishment in/under which Contract is carried on \_\_\_\_\_\_

Name & Location of Work \_\_\_\_\_\_

Name & Address of Principal Employer \_\_\_\_\_

SL	Name of Workman	Father's / Husbands Name	Designation / Nature of Employment	Act / Omission for which Fine Imposed	Date of Offence	Whether Workman Showed Cause Against Time	Name of Person in whose Presence Employee's Explanation was Heard	Wage Periods and Wages Payable	Amount of Fine Imposed	Date on which Fine Realised	Remarks
1	2	3	4	5	6	7	8	9	10	11	12

# FORM XX

[See Rule 78 (2)(d)]

# **REGISTER OF DEDUCTION FOR DAMAGE OR LOSS**

Name & Address of Contractor \_\_\_\_\_\_

Name & Address of Establishment in/under which Contract is carried on \_\_\_\_\_\_

Name & Location of Work \_\_\_\_\_\_

Name & Address of Principal Employer \_\_\_\_\_\_

		s Name	of	Loss	SS	ved on	s s d	osed		Date of Recovery		
SL	Name of Workman	Father's /Husband's N	Designation/ Nature o Employment	Particulars of Damage or	Date of Damage or Loss	Whether Workman showed Cause against Deduction	Name of Person in Whose Presence Employee's Explanation was Heard	Amount of Deduction Imposed	No. of Instalments	First Instalment	Last Instalment	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13

# **APPENDIX –G- XIII**

# FORM XXII

[See Rule 78 (2)(d)]

# **REGISTER OF ADVANCE**

Name & Address of Contractor \_\_\_\_\_

Name & Address of Establishment in/under which Contract is carried on \_\_\_\_\_\_

Name & Location of Work \_\_\_\_\_

Name & Address of Principal Employer \_\_\_\_\_\_

SL	Name of Workman	Father's / Husband's Name	Designation/ Nature of Employment	Wage Period and Wages Payable	Date & Amount of Advance Given	Purpose(s) for which Advance Made	No. of Instalments by Which Advance to be Repaid	Date & Amount of each Instalment Repaid	Date on which Last Instalment was Repaid	Remarks
1	2	3	4	5	6	7	8	9	10	11

# FORM XXIII

[See Rule 78 (2)(e)]

# **REGISTER OF OVER TIME**

Name & Address of Contractor \_\_\_\_\_

Name & Address of Establishment in/under which Contract is carried on \_\_\_\_\_\_

Name & Location of Work \_\_\_\_\_\_

Name & Address of Principal Employer \_\_\_\_\_\_

SL	Name of Workman	Father's/Husband's Name	Sex	Designation/ Nature of Employment	Date on which Overtime Worked	Total Over Time Worked or Production in Case of Piece Rated	Normal Rate of Wages	Overtime Rate of Wages	Overtime Earnings	Rate on which Overtime <del>Wages</del> Paid	Remarks
1	2	3	4	5	6	7	8	9	10	11	12

# **FORM 31**

# **INDENTURE FOR SECURED ADVANCES**

(Ref : Para 10.2.20 and 10.2.22 of CPW A Code)

{For use in cases in which the contract is for finished work and the contractor has entered into an agreement for execution of a certain specified quantity of work in a given time}

THIS INDENTURE made the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_ BETWEEN \_\_\_\_\_\_ (hereinafter called the Contractor which expression shall where the context so admits or implies, be deemed to include his executors administrators and assigns) of the one part and the WAREHOUSING CORPORATION (hereinafter called the Corporation which expression shall where the context so admits or implies, be deemed to include his successors in office and assigns) of the other part.

WHEREAS by an agreement dated \_\_/\_\_/ (hereinafter called the said agreement), the Contractor has agreed AND WHEREAS the Contractor has applied to the Corporation that he may be allowed advances on the security of materials absolutely belonging to him and brought by him to the site of the works, the subject of the said agreement for use in the construction of such of the works as he has undertaken to execute at rates fixed for the finished work (inclusive of the cost of materials and labour and other charges) AND WHEREAS, the Corporation has agreed to advance to the Contractor the sum of Rupees \_\_\_\_\_\_\_ on the security of materials, the quantities and other particulars of which are detailed in Accounts of Secured Advances, attached to the Running Account Bill for the said works signed by the Contractor on \_\_\_\_\_\_ and the Corporation has reserved to himself the option of making any further advance or advances on the security of other materials brought by the Contractor to the said works.

Now THIS INDENTURE WITNESSETH that in pursuance of the said agreement and in consideration of the sum of Rupees \_\_\_\_\_\_ on or before the execution of these presents, paid to the Contractor by the Corporation (the receipt whereof the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as aforesaid the Contractor doth hereby covenant and agree with the Corporation and declare as follows :

- (1) That the said sum of Rupees \_\_\_\_\_\_, so advanced by the Corporation to the Contractor as aforesaid and all or any further sum or sums advanced as aforesaid shall be employed by the Contractor in or towards expediting the execution of the said works and for no other purpose whatsoever.
- (2) That the materials detailed in the said Account of Secured Advances which have been offered to and accepted by the Corporation as Security are absolutely the Contractor's own property and free from encumbrances of any kind and the contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the Contractor indemnifies the Corporation against all claims to any materials in respect of which an advance has been made to him as aforesaid.
- (3) That the materials detailed in the said Account of Secured Advances and all other materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereinafter called the said materials) shall be used by the Contractor solely in the execution of the said works in accordance with the directions of the Chief Engineer / Superintending Engineer, Corporate Office (hereinafter called the Chief Engineer / Superintending Engineer) and in the term of the said agreement.
- (4) That the Contractor shall make at his own cost all necessary and adequate arrangements for the proper watch, safe custody and protection against all risks of the said materials and that until used in construction as aforesaid, the said materials shall remain at the site of the said works in the Contractor's custody and on his own responsibility and shall at all times be open to inspection by the Chief Engineer / Superintending Engineer or any officer authorised by him. In the event of the said materials or any part thereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof, the Contractor will forthwith replace the same with other materials of like quality or repair and make good the same as required by the Chief Engineer / Superintending Engineer.

- (5) That the said materials shall not on any account be removed from the site of the said works except with the written permission of the Chief Engineer / Superintending Engineer or an officer authorised by him on that behalf.
- (6) That the advances shall be repayable in full when or before the Contractor receives payment from the Corporation of the price payable to him for the said works under the terms & provisions of the said agreement. Provided that if any intermediate payments are made to the Contractor on account of work done than on the occasion of each such payment the Corporation will be at liberty to make a recovery from the Contractor's bill for such payment by deducting there from the value of the said materials then actually used in the construction and in respect of which recovery has not been made previously, the value for this purpose being determined in respect of each description of materials at the rates at which the amounts of advances made under these presents were calculated.
- (7) That if the Contractor shall at any time make any default in the performance or observance in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing to the Corporation shall immediately on the happening of such default be repayable by the Contractor to the Corporation together with interest thereon at twelve per cent per annum from the date or respective dates of such advance or advances to the date or epayment and with all costs charges, damages & expenses incurred by the Corporation in or for the recovery thereof or the enforcement of this security or otherwise by reason of the default of the Contractor and the Contractor hereby covenants and agrees with the Corporation to repay and pay the same respectively to him accordingly.
- (8) That the Contractor hereby charges all the said materials with the repayment to the Corporation of the said sum of Rupees \_\_\_\_\_\_ and any further sum or sums advanced as aforesaid and all costs charges, damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the powers contained therein if and whenever the covenant for payment and repayment herein before contained shall become enforceable and the money owing shall not be paid in accordance therewith, the Corporation may at any time thereafter adopt all or any of the following courses as he may deem best :
  - (a) Seize and utilize the said materials or any part thereof in the completion of the said works on behalf of the Contractor in accordance with the provisions in that behalf contained in the said agreement debiting the Contractor with the actual cost of effecting such completion and the amount due in respect of advances under these presents and crediting the Contractor with the value of work done as if he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the Contractor he is to pay same to the Corporation on demand.
  - (b) Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable or payable to the Corporation under these presents and pay over the surplus (if any) to the Contractor.
  - (c) Deduct all or any part of the moneys owing out of the Security Deposit or any sum due to the Contractor under the said agreement.
- (9) That except in the event of such default on the part of the Contractor as aforesaid, interest on the said advance shall not be payable.
- (10) That in the event of any conflict between the provisions of these presents and the said agreement, the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents, the settlement of which has not been herein before expressly provided for the same, shall be finally resolved as per provisions of Clause 25 of the contract.

In witness whereof the said \_\_\_\_\_\_ and \_\_\_\_\_ by the order and under the direction of the Corporation have hereunto set their respective hands the day and year first above written.

Signed, sealed and delivered by \_\_\_\_\_, the said Contractor in the presence of -

Witness Name \_\_\_\_\_

Signed by \_\_\_\_\_\_ by the order and direction of the Corporation / Engineer-in-Charge of the Corporation in the presence of –

Signature \_\_\_\_\_

Witness Name \_\_\_\_\_

Address \_\_\_\_\_

# SAFETY CODE

- 1. Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used, an extra Mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well, suitable footholds and hand-hold shall be provided on the ladder and the ladder shall be given an inclination not steeper than 1/4 to 1 (1/4 horizontal and 1 vertical).
- 2. Scaffolding of staging more than 3.6 m (12 ft) above the ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached or bolted, braced and otherwise secured at least 90 cm (3 ft) high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
- 3. Working platforms, gangways and stairways should be so constructed that they should not sag unduly or unequally, and if the height of the platform or the gangway or the stairway is more than 3.6 m (12 ft) above ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened as described in Para 2. above.
- 4. Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of person or materials by providing suitable fencing or railing whose minimum height shall be 90 cm (3 ft).
- 5. Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9m (30 ft) in length while the width between side rails in rung ladder shall in no case be less than 29 cm (11½") for ladder upto and including 3 m (10 ft) in length. For longer ladders, this width should be increased at least ¼" for each additional 30 cm (1 foot) of length. Uniform step spacing of not more than 30 cm shall be kept.

Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites or work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall provide all necessary fencing and lights to protect the public from accident and shall be bound to bear the expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit; action or proceedings to any such person or which may, with the consent of the contractor, be paid to compensate any claim by any such person.

- 6. (a) Excavation and Trenching All trenches 1.2 m (4 ft) or more in depth, shall at all times be supplied with at least one ladder for each 30 m (100 ft) in length or fraction thereof. Ladder shall extend from bottom of the trench to at least 90 cm (3 ft) above surface of the ground. Side of the trenches which are 1.5 m (5 ft) or more in depth shall be stepped back to give suitable slope or securely held by timber bracing, so as to avoid the danger of sides collapsing. The excavated materials shall not be placed within 1.5 m (5 ft) of the edges of the trench or half of the depth of the trench, whichever is more. Cutting shall be done from top to bottom. Under no circumstances, undermining or undercutting shall be done.
  - (b) Safety Measures for Digging Bore Holes –
  - (i) If the bore well is successful, it should be safely capped to avoid caving and collapse of the bore well. The failed and the abandoned ones should be completely refilled to avoid caving and collapse
  - (ii) During drilling, sign boards should be erected near the site with the address of the drilling contractor and the Engineer in-charge of the work
  - (iii) Suitable fencing should be erected around the well during the drilling and after the installation of the rig on the point of drilling, flags shall be put 50 m around the point of drilling to avoid entry of people
  - (iv) After drilling the bore well, a cement platform (0.5 m x 0.5 m x 1.2 m) 0.6 m above ground level and 0.6 m below ground level should be constructed around the well casing

- (v) After completion of the bore well, contractor should cap the bore well properly by welding steel plate, cover the bore well with drilled wet soil and fix thorny shrubs over the soil. This should be done even while repairing the pump
- (vi) After bore well is drilled, the entire site should be brought to the ground level.
- 7. Demolition Before any demolition work is commenced and also during the progress of the work,
  - (i) All roads and open areas adjacent to the work site shall either be closed or suitably protected
  - (ii) No electric cable or apparatus which is liable to be a source of danger or a cable or apparatus used by the operator shall remain electrically charged
  - (iii) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.
- 8. All necessary personal safety equipment, as considered adequate by the Engineer-in-Charge should be kept available for the use of the person employed on the site and maintained in a condition suitable for immediate use and the contractor should take adequate steps to ensure proper use of equipment by those concerned.

The following safety equipment shall invariably be provided -

- (i) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
- (ii) Those engaged in white washing and mixing or stacking of cement bags or any material which is injurious to the eyes, shall be provided with protective goggles.
- (iii) Those engaged in welding works shall be provided with welder's protective eye shields.
- (iv) Stone Breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
- (v) When workers are employed in sewers and manholes, which are in active use, the contractors shall ensure that the manhole covers are opened and ventilated at least for an hour before the workers are allowed to get into the manholes and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public. In addition, the contractor shall ensure that the following safety measure are adhered to :
  - (a) Entry for workers into the line shall not be allowed except under supervision of the Site Engineer or any other higher officer.
  - (b) At least 5 to 6 manholes upstream and downstream should be kept open for at least 2 to 3 hours before any man is allowed to enter into the manhole for working inside.
  - (c) Before entry, presence of Toxic gases should be tested by inserting wet lead acetate paper which changes colour in the presence of such gases and gives indication of their presence.
  - (d) Presence of Oxygen should be verified by lowering a detector lamp into the manhole. In case, no Oxygen is found inside the sewer line, workers should be sent only with Oxygen Kit.
  - (e) Safety belt with rope should be provided to the workers. While working inside the manholes, such rope should be handled by two men standing outside to enable him to be pulled out during emergency.
  - (f) The area should be barricaded or cordoned off by suitable means to avoid mishaps of any kind. Proper warning signs should be displayed for the safety of the public, whenever cleaning works are undertaken during night or day.
  - (g) No smoking or open flames shall be allowed near the blocked manhole being cleaned.
  - (h) The malba obtained on account of cleaning of blocked manholes and sewer lines should be immediately removed to avoid accidents on account of slippery nature of the malba.
  - (i) Workers should not be allowed to work inside the manhole continuously. He should be given rest intermittently. The Engineer-in-Charge shall decide the time upto which a worker may be allowed to work continuously inside the manhole.
  - (j) Gas masks with Oxygen Cylinder should be kept at site for use in emergency.
  - (k) Air-blowers should be used for flow of fresh air through the manholes. Whenever called for, portable air blowers are recommended for ventilating the manholes. The Motors for these shall be vapour proof and of totally enclosed type. Non-sparking gas engines also could be used, but

they should be placed at least 2 m away from the opening and on the leeward side protected from wind, so that they will not be source of friction on any inflammable gas that might be present.

- (I) Workers engaged for cleaning the manholes/sewers should be properly trained before allowing to work in the manhole.
- (m) Workers shall be provided with Gumboots or non-sparking shoes, bump helmets and gloves, non-sparking tools, safety lights, gas masks and portable air blowers (when necessary). They must be supplied with barrier cream for anointing the limbs before working inside the sewer lines.
- (n) Workmen descending a manhole shall try each ladder stop or rung carefully before putting his full weight on it to guard against insecure fastening due to corrosion of the rung, fixed to manhole well.
- (o) If a man has received a physical injury, he should be brought out of the sewer immediately and adequate medical aid should be provided to him.
- (p) The extents to which these precautions are to be taken, depend on individual situation, but decision of the Engineer-in-Charge regarding the steps to be taken in this regard in an individual case, will be final.
- (vi) Contractor shall not employ men and women below the age of 18 years on the work of painting with products containing lead in any form. Wherever men above the age of 18 are employed on the work of lead painting, following precautions should be taken :
  - (a) No paint containing lead or lead products shall be used except in the form of paste or readymade paint.
  - (b) Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint is dry rubbed and scrapped.
  - (c) Overalls shall be supplied by the contractors to the workmen and adequate facilities shall be provided to enable the working painters to wash during and on the cessation of work.
- (vii) Workmen executing work on scaffolds or other structures above specified height shall be provided with full body harness and fall arresters.
- 9. An additional Clause (viii)(i) of CPWD's Safety Code (iv) the Contractor shall not employ women and men below the age of 18 on the work of painting with product containing lead in any form, wherever men above the age of 18 are employed on the work of lead painting, the following principles must be observed for such use:
  - (iii) White lead, sulphate of lead or product containing these pigment, shall not be used in painting operation except in the form of pastes or paint ready for use.
  - (iv) Measures shall be taken, wherever required in order to prevent danger arising from the application of paint in the form of spray.
  - (v) Measures shall be taken, wherever practicable, to prevent danger arising out of from dust, caused by dry rubbing down and scraping.
  - (vi) Adequate facilities shall be provided to enable working painters to wash during and on cessation of work.
  - (vii) Overall shall be worn by working painters during the whole of working period.
  - (viii) Suitable arrangement shall be made to prevent clothing put off during working hours, being spoiled by painting materials.
  - (ix) Cases of lead poisoning and suspected lead poisoning shall be notified and shall be subsequently verified by medical man, appointed by competent authority of Central Warehousing Corporation.
  - (x) The Central Warehousing Corporation may require, when necessary, medical examination of workers.
  - (xi) Instructions with regard to special hygienic precautions to be taken in the painting trade shall be distributed to working painters.
- 10. When the work is done near any place where there is risk of drowning, all necessary equipments should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision, should be made for prompt first aid treatment of all injuries likely to be obtained during course of the work.

- 11. Use of hoisting machines and tackle including their attachments, anchorage and supports shall conform to the following standards or conditions :
  - (i) (a) These shall be of good mechanical construction, sound materials and adequate strength and free from patent defects and shall be kept repaired and in good working order.
    - (b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength and free from patent defects.
  - (ii) Every Crane Driver or Hoisting Appliance Operator shall be properly qualified and no person under the age of 21 years should be in-charge of any hoisting machine including any scaffolding winch or give signals to operator.
  - (iii) In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load, each safe working load and the condition under which it is applicable, shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.
  - (iv) In case of departmental machines, the safe working load shall be notified by the Electrical Engineer-in-Charge. As regards contractor's machines, the contractors shall notify the safe working load of the machine to Engineer-in-Charge whenever he brings any machinery to site of work and get it verified by the Electrical Engineer concerned.
- 12. Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards. Hoisting appliances should be provided with such means as will reduce to the minimum the risk of accidental descent of the load. Adequate precautions should be taken to reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, wearing apparel, such as gloves, sleeves and boots as may be necessary should be provided. The worker should not wear any rings, watches and carry keys or other materials which are good conductors of electricity.
- 13. All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work.
- 14. These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the Safety Code shall be named therein by the contractor.
- 15. To ensure effective enforcement of the rules & regulations relating to safety precautions, the arrangements made by the contractor shall be open to inspection by the Labour Officer or Engineer-in-Charge of the department or their representatives.
- 16. Notwithstanding the above Clauses from (1) to (15), there is nothing in these to exempt the contractor from operations of any other Act or Rule in force in the Republic of India.

# APPLICATION FORM BY CONTRACTOR FOR SEEKING EXTENSION OF TIME

(Refer : Clause 5)

1.	Name of Contractor	
2.	Name of Work as given in the Agreement	
3.	Agreement no.	
4.	Estimated Amount put Tender	
5.	Date of Commencement of Work as per Agreement	
6.	Period Allowed for Completion of work as per Agreement	
7.	Date of Completion Stipulated in Agreement	

8. Period for which Extension of Time, if has been given by Authority in Schedule 'F' previously

Extensions	Letter no. 9 Date	Extension Granted			
Extensions	Letter no. & Date	Months	Days		
(a) 1 <sup>st</sup> Extension					
(b) 2 <sup>nd</sup> Extension					
(c) 3 <sup>rd</sup> Extension					
(d) 4 <sup>th</sup> Extension					
(e) Total extension previously given					

- 9. Reasons for which extension have been previously given (copies of the previous applications should be attached)
- 10. Period for which extension applied for
- 11. Hindrances on account of which extension is applied for with dates on which hindrances occurred and the period for which these are likely to last (for causes under Clause 5.2/5.3)

Submitted to the Authority indicated in Schedule 'F' with copy to the Engineer-in-Charge and Chief Engineer / Superintending Engineer.

Signature of Contractor Dated \_\_/\_\_/\_\_\_

# **APPENDIX – G-XVIII**

Reference : Clause 5 Registered Acknowledgement Due

# **PROFORMA FOR TIME EXTENSION**

No			Dated :	
То				
	Sub :	(i)		(name of work)
	500.	(ii)	Acceptance letter no	
	Ref :	(iii)	Understanding/Agreement no	

Dear Sir,

- **1.** The stipulated date for completion of the work mentioned above is \_\_\_\_\_\_. From the progress made so far and the present rate of progress, it is unlikely that the work will be completed by the above date (or 'However, the work was not completed on this date').
- 2. Expecting that you may be able to complete the work if some more time is given, the competent authority, although not bound to do so, hereby extends the time for completion from \_\_\_\_\_\_ to
- **3.** Please note that an amount equal to the liquidated damages for delay in the completion of the work after the expiry of \_\_\_\_\_\_ (give here the stipulated date for completion with/without any liquidated damage fixed earlier) will be recovered from you as mentioned in Clause 5 of General Conditions of Contract for the extended period, notwithstanding the grant of this extension. You may proceed with the work accordingly.
- **4.** The above extension of the completion date will also be subject to the further condition that no increase in rates on any account will be payable to you.
- **5.** Please intimate within a week of the receipt of this letter your acceptance of the extension of the conditions stated above.
- 6. Please note that in the event of your declining to accept the extension on the above said conditions or in the event of your failure after accepting or acting upto this extension to complete the work by \_\_\_\_\_\_ (here mention the extended date), further action will be taken in terms of Clause 3 of General Conditions of Contract.

Yours faithfully

For and on behalf of the Corporation

# **Notice for Appointment of Arbitrator**

[Refer Clause 25]

То

The Managing Director, Central Warehousing Corporation, CORPORATE OFFICE, 4/1, Siri Institutional Area, August Kranti Marg, Hauz Khas, New Delhi - 110016.

Dear Sir,

In terms of Clause 25 of the Agreement, particulars of which are given below, I/we hereby give notice to you to appoint an Arbitrator for settlement of disputes mentioned below :

- 1. Name of applicant
- 2. Whether applicant is Individual/Prop. Firm/Partnership Firm/Ltd. Co.
- 3. Full address of the applicant
- 4. Name of the work and contract number in which arbitration sought
- 5. Name of the Office which entered into contract
- 6. Contract amount in the work
- 7. Date of contract
- 8. Date of initiation of work
- 9. Stipulated date of completion of work
- 10. Actual date of completion of work (if completed)
- 11. Total number of claims made
- 12. Total amount claimed
- 13. Date of intimation of final bill (if work is completed)
- 14. Date of payment of final bill (if work is completed)
- 15. Amount of final bill (if work is completed)
- 16. Date of request made to Engineer-in-charge for decision
- 17. Date of receipt of Engineer-in-charge's decision
- 18. Date of appeal to you
- 19. Date of receipt of your decision.

Specimen Signatures of the Applicant (only the person/authority who signed the contract should sign)

I/We certify that the information given above is true to the best of my/our knowledge. I/We enclose following documents.

1. Statement of Claims with amount of Claims

2.

Yours faithfully

(Signature)

Copy in duplicate to :

1. The Engineer-in-Charge

APPENDIX –G- XX {Reference Clause 3.1} Registered Acknowledgement Due

# SHOW CAUSE NOTICE

Office of Superintending Engineer / Chief Engineer, \_\_\_\_\_ / CWC

(Without Prejudice)

M/s \_\_\_\_\_

Dear Sir,

То

Sub. - Name of Work : \_\_\_\_\_

Contract Agreement No. :

In spite of repeated instructions to you by the subordinate offices as well as by this office in various letters of even no. \_\_\_\_\_\_, dated \_\_\_\_\_\_; you have failed to start work / show adequate progress / submit detailed programme / \_\_\_\_\_\_ (*strike out whichever is not applicable*) for completing the work.

- 2. Your attention is invited to this office/Chief Engineer's office letter no. \_\_\_\_\_\_, dated \_\_\_\_\_ in reference to your representation, dated \_\_\_\_\_\_ (*strike out, if not applicable*).
- 3. As you have failed to abide by the instructions issued to commence the work/to show adequate progress of work, you are hereby given \_\_ (\_\_\_\_\_) days' notice *(minimum 15 days)* in accordance with Clause 3.1 of CWC's General Conditions of Contract to commence works / to make good the progress, failing which further action as provided in Clause 3.2 of the CWC's General Conditions of Contract, viz. to terminate your Contract and complete the balance work without your participation, will be taken.

Kindly acknowledge receipt.

Yours faithfully

For and on behalf of the Corporation

<u>Note</u>: While determining the contract under any of the Sub-Clause (i) to (xi) of Clause 3.1; for causes other than the causes as mentioned above (viz. start work, show adequate progress, submit detailed programme, insolvency etc.), suitable modifications in the letter may be made.

**APPENDIX –G- XXI** {Reference Clause 3.2} Registered Acknowledgement Due

# **TERMINATION NOTICE**

Office of Superintending Engineer / Chief Engineer,	/ CWC
(Without Prejudice)	

Dear Sir(s),

 Sub.
 - Name of Work
 :

 Contract Agreement No.
 :
 \_\_\_\_\_\_

<u>contract rigiteement noi</u> .

Show Cause Notice under Clause 3.1 of CWC's General Conditions of Contract was served upon you under this office letter no. \_\_\_\_\_\_, dated \_\_/\_/20\_\_; but no reply has been given by you so far / your reply vide letter no. \_\_\_\_\_\_ received in response has been considered carefully, but not found to the satisfaction of the Engineer-in-Charge *and* you have also taken no action to commence the work / show adequate progress / submit detailed programme / \_\_\_\_\_\_ (*strike out whichever is not applicable and the arguments/facts claimed by the contractor be indicated in brief*).

Therefore, under powers delegated under Clause 3.2, I \_\_\_\_\_\_ the Engineer-in-Charge for the aforesaid work under the aforesaid agreement, for and on behalf of the President of India, hereby –

- (i) Determine/Terminate the contract as aforesaid upon which determination your Earnest Money Deposit, Security Deposit already recovered and Performance Guarantee stand absolutely forfeited to the Govt. and shall be absolutely at the disposal of Govt., and
- (ii) Take out such part of the work out of your hand, as remains unexecuted, for giving it to another contractor to complete the work, and you shall have no claim to compensation for any loss sustained by you by reasons of your having purchased or procured any materials or entered into any engagements or made any advances on account of or with a view to the execution of the work or the performance of the contract.
- (iii) You are also hereby served with Notice to the effect that the work executed by you will be measured up on \_\_/\_\_/20\_\_\_ for which you are asked to attend for joint measurement, failing which the work will be measured by the department unilaterally in your absence and result of measurement will be final & will be binding on you.
- (iv) You shall not be allowed to participate in the tendering process for the balance work.

This is without prejudice to Govt.'s right to take action under any other Clauses or Sub-Clauses of the agreement and to realize Govt. dues and losses & damages whatsoever under such Clauses or Sub-Clauses.

Kindly acknowledge receipt.

Yours faithfully

For and on behalf of the Corporation

<u>Note</u>: While determining the contract under any of the Sub-Clause (i) to (xi) of Clause 3.1; for causes other than the causes as mentioned above (viz. start work, show adequate progress, submit detailed programme, insolvency etc.), suitable modifications in letter may be made.

# **CHAPTER-III**

# SECTION -VIII (TECHNICAL CONDITIONS / SPECIFICATIONS)

# GENERAL

#### SCOPE

These Specifications establish and define the materials and constructional requirements for engineering construction works in brief.

#### EQUIVALENCY OF STANDARDS AND CODES, MEASUREMENTS & MATERIALS

Wherever reference is made in the contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the contract. In case, no reference is made for any particular work, relevant IS/BIS Codes will be followed.

- 1.2.1 Providing and operating necessary measuring & testing devices and materials including all consumables are included in the Scope of Work. No separate measurement or payment for testing the work shall be made, but rates quoted for various items shall be deemed to include cost of such tests, which are required to ensure achievement of specified quality.
- 1.2.2 All materials shall be of standard quality, manufactured by renowned concerns, conforming to Indian Standards and shall have certification work from Bureau of Indian Standards as far as possible, unless otherwise approved by Engineer. The contractor shall get all materials approved by Engineer prior to procurement and use. The contractor shall furnish manufacturer's certificates, for materials supplied by him when asked for. Further to that he shall get materials tested from an approved Test House, if asked for by the Engineer. Cost for all the tests and test certificates shall be borne by the contractor. No separate payment shall be made for the testing. The Engineer shall have the right to determine whether all or any of the materials are suitable. Any materials procured or brought to site and not conforming to specifications and satisfaction of the Engineer shall be rejected and the contractor shall have to remove the same immediately from site at his own expense & without any claim for compensation due to such rejection.
- 1.2.3 All goods and materials to be incorporated in the works shall be new, unused, of the most recent or current models and incorporate all recent improvements in design & materials, unless provided otherwise in the contract.
- 1.2.4 Wherever referred to in this tender document, only the latest revision of Specifications, Codes of Practice and other publications of the Indian Standards shall be applicable.

# A. EXCAVATION:

#### 1) CLASSIFICATION OF SOILS FOR EARTH WORK IN EXCAVATION

The earth work shall be classified under the following categories and measured separately for each category.

- i. **All kinds of soils**: Generally any strata, such as sand, gravel, loam, clay, mud, black cotton moorum, shingle, river or nallah bed boulders, siding of roads, paths etc. and hard core, macadam surface of any description (water bound, grouted tarmac etc.), lime concrete, mud concrete and their mixtures which for excavation yields to application of picks, showels, jumper, scarifiers, ripper and other manual digging implements.
- ii. **Ordinary rock**: Generally any rock which can be excavated by splitting with crow bars or picks and does not require blasting, wedging or similar means for excavation such as lime stone, sand stone, hard laterite, hard conglomerate and unreinforced cement concrete below ground level. If required light blasting may be resorted to for loosening the materialsbut this will not in any way entitle the material to be classified as "Hard rock".
- iii. **Hard rock**: Generally any rock or boulder for the excavation of which blasting is required such as quartzite, granite, basalt, reinforced cement concrete (reinforcement to be cut through but not separated from concrete) below ground level and the like.

2) **Engineer-in-Charge** will furnish all necessary drawings showing the areas to be excavated, filled, sequence of priorities etc. Contractor shall follow such drawings strictly.

# 3) Excavation Category:

- a) Excavation in Open area/ Wide Excavation:
- Excavation exceeding 1.5 m in width and 10 sqm on plan and exceeding 30 cm in depth.
- Excavation for basements, water tanks etc.
- Excavation in trenches exceeding 1.5 m in width and 10 sqm on plan

# b) <u>Surface Excavation.</u>

- Excavations exceeding 1.5 m in width and 10 sqm. on plan but not exceeding 30 cm. in depth in all types of soils and rocks shall be described as surface excavation
- c) Excavation in foundation & Trenches.
  - This shall comprise excavation not exceeding 1.5 m in width or 10 sqm on plan and to any depth in trenches (excluding trenches for pipes, cables, conduits etc.)

# 4) <u>General</u>

Contractor shall provide all tools, plants, instruments, qualified supervisory personnel, labor, materials, and temporary works, consumables, any and everything necessary, whether or not such items are specifically stated herein, for completion of the Work.

Contractor shall set properly all lines and establish levels for various works such as earthworkin excavation for levelling, basement, foundations, plinth filling, roads, drains, cable trenches, pipelines etc.

The area to be excavated / filled shall be cleared of fences, trees, plants, logs, slumps, bush, vegetation, rubbish slush etc. and other objectionable matter. If any roots or stumps of trees are found during excavation, they shall also be removed. The material so removed shall be burnt or disposed off as directed by Engineer. Where earth fill is intended, the area shall be stripped of all loose/soft patches, top soil containing deleterious matter/materials before fill commences. Final cleaning shall be done with removal of all rubbish up to the distance of 50.0 m all around outside the periphery of building.

# 5) Relics, Objects of Antiquity, Etc.

All gold, silver, oil minerals archaeological and other findings of importance, all precious stones, coins, treasures, relics, antiquities and other similar things which may be found in or upon the site shall be the property of Engineer-in-Charge and Contractor shall dully preserve the same to the satisfaction of Engineer-in-Charge and from time to time deliver the same to such person or persons as Engineer-in-Charge may from time to time authorize or appoint to receive the same.

# 6) Site Clearance:

Before the start of work, the area of the Site shall be cleared of all shrubs, vegetation, grass, bush wood, stumps, saplings etc of girth up to 30cm measured at a height of one metre above ground level. All the building shall be laid out to ensure that the layout plan fits at site. Trees if any live within construction site layout shall be shifted to other safe place as directed by Engineer in charge (at extra cost). After completion of the work, the entire area of the site shall be cleared from all debris, unwanted materials / equipment and level / slope of ground as required at site up to peripheral roads. The debris and unwanted material shall be disposed off away from the site without any extra cost.

# 7) Site Levels:

After site clearance and before commencement of excavation or filling, the contractor shall take levels in both longitudinal and transverse directions of the building at regular intervals as directed by Engineer in charge at site for the entire layout where the new work is to be executed. A record of these levels shall be signed jointly by Contractor and the Engineer-in-charge. These records shall be submitted to the Engineer-in-charge and shall be used in deciding the NGL, PL, FFL and measurement of earth work.

# 8) <u>Setting out of works:</u>

The contractor shall set out the works and shall provide & fix all setting out apparatus required and solely be responsible for the true and perfect setting out the same and for correctness of the position, levels, dimensions and alignment of all buildings as per the drawings. The contractor shall take in writing the approval of the Engineer-in-charge for setting out and levels before starting the construction works. These approvals shall be recorded and signed by the Engineer-in-charge and contractor.

A masonry pillar to serve as a bench mark will be erected at a suitable point in the area, which is visible from the largest area. This bench mark shall be constructed and connected with the standard bench mark as approved by the Engineer-in-Charge. Necessary profiles with strings stretched on pegs, bamboos or 'Burjis' shall be made to indicate the correct formation levels before the work is started.

# 9) Surface Dressing:

The surface area to be occupied by the building shall be cleared of all debris, shrubs and plants, grass etc. The roots of trees and saplings shall be removed to a depth of 60cm below ground level or 30 cm below formation level or 15 cm below sub grade level, whichever is lower, and the holes or hollows filled up with the earth, rammed and leveled. All roots and organic material shall be cleared from the filling area inside the building.

# 10)Important Note:

The works mentioned above viz Site clearance, site levels, setting out and Surface dressing are part of contractor scope and shall be done by Contractor without any extra cost or payment from CWC.

However, Major works like or large scale/Dense jungle clearance , Surface excavation, Shifting and /or Cutting of Trees (more than 300 mm dia in girth at height of 1 meter above ground) or any major clearance requiring shifting of CWC stored material, Existing structures and services such as old buildings, culverts, fencing, water supply pipe lines, sewers, power cables, communication cables, drainage pipes etc. within or adjacent to the area etc. , if required to be diverted/removed, shall be diverted/dismantled as per directions of the Engineer-inform site of work, and shall be payable extra as per agreed Bill of quantities and schedule of rates.

# 11) Excavation in Trenches and Over Areas:

- I. All excavation operations manually or by mechanical means shall include excavation and 'getting out' the excavated materials.
- II. During the excavation the natural drainage of the area shall be maintained. Excavation shall be done from top to bottom. Undermining or undercutting shall not be done.
- III. In firm soils, the sides of the trenches shall be kept vertical upto a depth of 2 metres from the bottom. For greater depths, the excavation profiles shall be widened by allowing steps of 50 cms on either side after every 2 metres from the bottom. Alternatively, the excavation can be done so as to give slope of 1:4 (1 horizontal: 4 vertical). Where the soil is soft, loose or slushy, the width of steps shall be suitably increased or sides sloped or the soil shored up as directed by the Engineer-in- Charge. It shall be the responsibility of the contractor to take complete instructions in writing from the Engineer-in-Charge regarding the stepping, sloping or shoring to be done for excavation deeper than 2 metres
- IV. The earth work in excavation shall be done as per the required depths, width & length shown in approved Excavation Plan /drawings and in line of site levels and alignments in all sorts of soils as directed by Engineer in charge. Nothing extra, from the dimensions shown in approved excavation plan, shall be payable for excavation done for working space for labor. Only neat line excavation as per drawing shall be payable. Roots or trees met with during the excavation shall be cut and removed. Excavated earth

shall be stacked at least 3 m away from the trenches or as per the Engineer's instructions, so that it may not damage the sides of the excavated trenches. The sides of the excavated trenches shall be in straight line and bottom uniformly levelled watered, consolidated and ready for termite treatment. The maximum lead for stacking the earth shall be 200 m, unless otherwise categorically specified in the item description.

- I. Earth work in excavation in any type of soil existing at site for foundations of rafts, columns and walls / half brick walls / from existing ground level shall be as indicated on the drawings. The finish floor level of building shall be as per drawings and shall be approved by the Engineer-in-charge after fixing of same at Site by Contractor. The work shall be executed at site as per the levels approved by the Engineer-in-charge.
- II. Immediately after the excavation of the foundation work, concreting therein and before covering the same the record of the levels as actually executed at site shall be recorded in the measurement books and jointly signed and dated by the Engineer-in-charge & Contractor -
- III. If trenches or foundations are excavated beyond the specified dimensions due to bad workmanship of contractor, the extra excavation shall be filled with selected good earth ensuring adequate compaction duly watered, consolidated and rammed at the cost of contractor.
- IV. Explosives of any form shall not be used for any construction activity. Where hard rock is met with and blasting operations are considered necessary, the contractor shall obtain the approval of the Engineerin-Charge in writing for resorting to blasting operation. In ordinary rock blasting operations shall not be generally adopted. However, the contractor may resort to blasting with the permission of the Engineerin-charge, but nothing extra shall be paid for such blasting operations.
- V. From the date when the Contractor starts work under this contract, or from the required contract date, whichever is earlier, the Contractor shall assume all responsibilities for earth and rock banks. Such responsibility shall continue to the date when all work under the contract is completed and approved by Engineer-in-Charge. The contractor shall provide sheeting, shoring and bracing required for the support of earth and rock banks during construction. Sheeting, shoring and bracing shall be maintained in place until immediately before filling or backfilling then shall be removed by stages as the filling or backfilling progresses. Engineer-in-Charge reserves the right to specify shoring or bracing as may be deemed necessary by them.
- VI. Any settlement or washing away of filled or backfilled areas, and earth and rock banks, that may occur from the action of the elements, or any other cause, prior to acceptance of work, shall be repaired and grades re- established to the required elevations and slopes, at no additional cost.
- VII. Excavation where directed by the Engineer-in- Charge shall be securely barricaded and provided with proper caution signs, conspicuously displayed during the day and properly illuminated with red lights and/or written using fluorescent reflective paint as directed by engineer in charge during the night to avoid accident.
- VIII. The Contractor shall take adequate protective measures to see that the excavation operations do not damage the adjoining structures or dislocate the services. Water supply pipes, sluice valve chambers, sewerage pipes, manholes, drainage pipes and chambers, communication cables, power supply cables etc. met within the course of excavation shall be properly supported and adequately protected, so that these services remain functional. However, if any service is damaged during excavation shall be restored in reasonable time.
  - IX. Excavation shall not be carried out below the foundation level of the adjacent buildings until underpinning, shoring etc. is done as per the directions of the Engineer-in-Charge for which payment shall be made separately. Contractor will be responsible if he has not taken precaution for the safety of the people, property or neighbor's property caused by his negligence during the constructional operations or unsafe excavation.
  - X. Any damages done by the contractor to any existing work shall be made good by him at his own cost. Existing drains pipes, culverts, overhead wires, water supply lines and similar services encountered during the course of execution shall be protected against damage by the contractor. The contractor shall not store material or otherwise occupy any part of the site in manner likely to hinder the operations of such services.
  - XI. To the extent available, selected surplus spoils from excavated materials shall be used as backfill. Fill material shall be free from clods, salts, sulphates, and organic & other foreign material. All clods of earth shall be broken or removed. Where excavated material is mostly rock, the boulders shall be broken into pieces not larger than 150 mm size, mixed with properly graded fine material consisting of moorum or earth to fill up the voids and the mixture used for filling.
- XII. As soon as the work in foundations has been accepted and measured, the spaces around the foundations, structures, pits, trenches etc. shall be cleared of all debris and filled with earth in layers 15 cm to 20 cm, each layer being watered, rammed and properly consolidated before the succeeding one is laid. Each layer shall be consolidated to the satisfaction of Engineer-in-Charge.

- XIII. Trench width in case of excavation in trenches for pipes, cables etc.
  - Upto one metre depth the authorized width of trench for excavation shall be arrived at by adding 25 cm to the external diameter of pipe (not socket/ collar) cable, conduit etc. Where a pipe is laid on concrete bed/ cushioning layer, the authorized width shall be the external diameter of pipe (not socket/ collar) plus 25 cm or the width of concrete bed/ cushioning layer whichever is more.
  - For depths exceeding one metre, an allowance of 5 cm per metre of depth for each side of the trench shall be added to the authorized width (that is external diameter of pipe plus 25 cm) for excavation. This allowance shall apply to the entire depth of the trench. In firm soils the sides of the trenches shall be kept vertical upto depth of 2 metres from the bottom. For depths greater than 2 metres, the excavation profiles shall be widened by allowing steps of 50 cm on either side after every two metres from bottom.
  - Where more than one pipe, cable, conduit etc, are laid, the diameter shall be reckoned as the horizontal distance from outside to outside of the outermost pipes, cable, conduit etc.
  - Where the soil is soft, loose or slushy, width of trench shall be suitably increased or side sloped or the soil shored up as directed by the Engineer-in-Charge. It shall be the responsibility of the contractor to take complete instructions in writing from the Engineer-in-Charge regarding increase in the width of trench. Sloping or shoring to be done for excavation in soft, loose or slushy soils.

# 12) FILLING

- I. The excavated stacked earth (other than Black cotton soil or disposable soil as decided by Engineer in charge) shall be filled in trenches, sides of foundations and under floor in layers of 200mm thick and balance shall be disposed off by uniform spreading within the site as directed by the Engineer-in- Charge. The Filling with excavated earth shall be done in regular horizontal layers and all lumps and clods exceeding 8 cm in any direction shall be broken. Each layer shall be watered and consolidated with steel rammer or ½ tonne roller.
- II. The Selected earth supplied and used for filling shall be free from all roots, grass, shrubs, rank vegetation, brushwood, tress, sapling and rubbish. Sand , supplied for filling shall be clean and free from dust organic and foreign matter and its grading shall be within the limits of grading zone IV or V as specified in Section 3 'Mortars' of CPWD specifications of work.
- III. In case of filling under floor /open area with excavated available or supplied good earth etc., every third and top must layer shall also be consolidated with power roller of minimum 8 tonnes. Wherever depth of filling exceeds 1.5 metre vibratory power roller shall be used to consolidate the filing unless otherwise directed by Engineer-in-charge. The top and sides of filling shall be neatly dressed. The contractor shall make good all subsidence and shrinkage in earth fillings, embankments, traverses etc. during execution and till the completion of work unless otherwise specified.
- IV. Filling in trenches for foundations, pipes etc shall be commenced soon after the Concrete/Masonry works in foundations etc, joints of pipes, cables, conduits etc. have been tested and passed. The space around the footing, pedestals, foundation masonry, pipes, cables conduits etc. shall be cleared of all debris, brick bats etc. Where the trenches are excavated in hard/ soft soil, the filling shall be done with earth on the side and top of pipes in layers not exceeding 20 cm in depth. Each layer shall be watered, rammed and consolidated. All clods and lumps of earth exceeding 8 cm in any direction shall be broken or removed before the excavated earth is used for filling. In case of excavation trenches in ordinary/ hard rock, the filling upto a depth of 30cm above the crown of pipe, cable, conduits etc. shall be done with fine material like earth, moorum or pulverized/ decomposed rock according to the availability at site. The remaining filling shall be done with boulders of size not exceeding 15cm mixed with fine material like decomposed rock, moorum or earth as available to fill up the voids, watered, rammed and consolidated in layers not exceeding 30cm. Excavated material containing deleterious material, salt peter earth etc. shall not be used for filling. Ramming shall be done with iron rammers where feasible and with blunt ends of crow bars where rammers cannot be used. Special care shall be taken to ensure that no damage is caused to the pipes, Cables, Conduits etc. laid in the trenches.

# 13) **Lead**

Lead for deposition/disposal of excavated material, shall be within a lead of 200m unless specifically mentioned in Tender items. The Deposition/disposal shall be as directed by Engineer-in-Charge. Only leads beyond 200m shall be considered as extra lead if not specifically mentioned in tender items and the Contractor shall be paid extra. For the purpose of measurement of lead the area to be excavated or filled or area on which excavated material is to be deposited/disposed off shall be divided into suitable blocks and for each of the blocks, the distance between centerlines shall be taken as the lead which shall be measured, as far as practically possible, by the shortest straight line route on the plan and not the actual route taken by Contractor. No extra compensation is admissible on the grounds that the lead including that for borrowed materials had to be transported over marshy or katcha land/route.

# B. CONDITIONS FOR WATER:

Unless specifically mentioned in Schedule –F, The contractor shall make his own arrangement for providing water for construction and drinking purpose. Water charges shall not be recovered on account of it. Contractor shall get the water tested from any laboratory approved by the Engineer-in-charge at regular interval as per the CPWD Specifications. All expenses towards collection of samples, packing transportation except testing charges etc. shall be borne by the contractor.

# **C. FORM WORK**

- I. The supply, erection, workmanship, stripping, measurement, and scope of works covered under the rates etc. shall be in general as per CPWD Specifications unless specifically mentioned in tender document.
- II. Rates in tender items shall be valid for all heights for carrying out Centering, and shuttering for all RCC /PCC works, wall finishing works etc wherever required for construction works in Warehouse and no extra cost shall be paid unless specifically mentioned in tender BOQ.
- III. Where it is not specifically stated in the description of the item that form work shall be paid for separately, the rate of the RCC item shall be deemed to include the cost of form work.
- IV. No deductions from the shuttering due to the openings/ obstructions shall be made if the area of each openings/ obstructions does not exceed 0.4 square metre. Nothing extra shall be paid for forming such openings.
- V. Only M.S. Centering/shuttering and scaffolding material unless & otherwise specified shall be used to give an even finish of concrete surface. However, marine-ply shuttering in as per site requirement may be used on specific request from contractor to be approved by the Engineer-in-charge.
- VI. Centring and shuttering for all concrete and reinforced concrete wherever required shall be in steel and / or plywood to produce a smooth and uniform finish on all exposed surfaces. However, all props, bracings, scaffolding etc., shall be in steel. The entire responsibility of planning, design, erection and safety of formwork shall lie with the Contractor.
- VII. Extra for shuttering in curved profile: For shuttering curved in elevation the steel/ply shuttering shall be fabricated to achieve the curved profile as per the architectural drawings and nothing extra shall be payable on this account.
- VIII. In order to keep the floor finish as per architectural drawings and to provide required thickness of the flooring as per specifications, the level of top surface of RCC shall be accordingly adjusted at the time of its centering, shuttering and casting for which nothing extra shall be paid to the Contractor.
  - IX. As per general engineering practice, level of floors in toilets/bath, balconies, shall be kept 12 to 20mm lower than general floor as required. Shuttering should be adjusted accordingly. Nothing extra is payable on this account.

- X. Steel shuttering as approved by the Engineer-in-charge only shall be used by the contractor. Minimum size of shuttering plates shall be 600mm x 900mm except for the case when closing pieces required to complete the shuttering panels. Dented, broken, cracked, twisted or rusted shuttering plates shall not be allowed to be used on the work. The shuttering plates shall be cleaned properly with electrically driven sanders to remove any cement slurry or cement mortar or rust. Proper shuttering oil or de-bonding compound shall be applied on the surface of the shuttering plates in the requisite quantity before assembly of steel reinforcement.
- XI. For the execution of centring and shuttering, the contractor shall use propriety "Reebole" chemical mould release agent of FOSROC or equivalent as shuttering oil as approved by Engineer-in-charge and nothing extra shall be paid on this account.

# D. REINFORCEMENT STEEL.

- **I.** The TMT bars shall conform to IS 1786 pertaining to Fe 415 D or Fe 500 D or Fe grade of steel as specified in Tender Item/ Drawing.
- II. In case of Construction in seismic zone III and above, unless specifically mentioned in technical drawings, steel reinforcement of Grade Fe 415 D shall be used. However, high strength deformed steel bars, produced by thermo mechanical treatment process of grade Fe 415, Fe 500 and Fe 550 having elongation more than 14.5. % and conform to other requirements of Fe 415 D, Fe 500 D and Fe 550 D respectively of IS 1786 may also be used for reinforcement.
- III. The supply, storage at site, assembly, erection, placement in position into formwork, workmanship including bend, hook, overlap, welding, anchoring, cover, testing, acceptable quality parameters and test results, permissible tolerance, measurement, and scope of rates etc. shall be in general as per CPWD Specifications unless specifically mentioned in tender document or Construction Drawings.
- IV. Reinforcement bars shall be placed in position as shown in the drawings or as directed by the Engineer-in-charge. The bars crossing one another shall be tied together at every intersection with two strands of annealed steel wire 0.9 to 1.6 mm thickness twisted tight to make the skeleton of the steel work rigid so that the reinforcement does not get displaced during deposition of concrete.
- V. Tack welding in crossing bars shall also be permitted in lieu of binding with steel wire if approved by Engineer-in-charge.
- VI. Reinforcement including authorized spacer bars and lappages shall be measured in length of different diameter, as actually (not more than as specified in the drawings.) used in the work nearest to a centimeter and their weight calculated on the basis of standard weight given in clause 6.2 of IS 1786. In case actual unit weight of the bars is less than standard unit weight, but within variation, in such cases weight of reinforcement shall be calculated on the basis of actual unit weight. Wastage and unauthorized overlaps shall not be paid for.
- VII. Annealed steel wire required for binding or tack welding shall not be measured, its cost being included in the rate of reinforcement.
- VIII. The contractor shall provide approved type of support for maintaining the bars in position and ensuring required spacing and correct cover of concrete to reinforcement as called for in the drawings, spacer blocks of required shape and size. Chairs and spacer bars shall be used in order to ensure accurate positioning of reinforcement. Spacer blocks shall be cast well in advance with approved proprietary pre-packed free flowing mortars (Conbextra as manufactured by M/s Fosroc Chemicals India Ltd., or equivalent as approved by the Engineer-in-charge at his discretion) of high early strength and same colour as surrounding concrete, Pre-cast cement mortar / concrete blocks / blocks of polymer shall not be used as spacer blocks unless specially approved by the Engineer-in-charge, rate of RCC items is inclusive of cost of such cover blocks.

# E. RCC WORK

- i. All mixed design concrete shall be executed by Concrete Batch Mix Plant of suitable capacity, to be installed by Contractor at site. In special cases RMC shall be allowed by Engineer on written request of the contractor but the RMC should also be from a plant of appropriate capacity. No extra payment shall be allowed on account of Concrete from batch mix plant or RMC.
- ii. In case of Nominal Mix concrete also, weight basis batching shall only be allowed.

- iii. Mixer having arrangement of weighing water for controlling W.C. ratio should only be used in all PCC and RCC works where there is no provision for Ready Mix Concrete in tender items.
- iv. Any cement slurry if added over base surface (or for continuation of concreting) for bond, its cost shall be deemed to have been included in the respective items, unless otherwise, explicitly stated and nothing extra shall be payable nor extra cement considered in the cement consumption on this account.
- v. Unless otherwise specified for the item, the maximum water cement ratio for any grade of concrete shall not be more than 0.5. The contractor shall within 15 days of issue of letter for commencement of the work, submit the mix design for various grades of concrete along with 7days crushing strength reports and within 40 days submit 28 days crushing strength reports, for the samples for the mix. Nothing extra shall be payable on account of admixing any chemical admixture for achieving any characteristic for the concrete. Concreting shall be commenced only after the approval of the mix design by the Engineer-in-Charge.
- vi. Wherever required the M.S. inserts shall be provided during the casting of RCC / PCC for which nothing extra shall be payable. As far as possible the contractor shall plan that the concreting is carried out during day shift.
- vii. It is important to maintain the water cement ratio constant at its correct value. To this end, determination of moisture contents in both fine and coarse aggregates shall be made as frequently as possible, the frequency for a given job being determined by the Engineer-in-Charge according to weather conditions. The amount of the added water shall be adjusted to compensate for any observed variations in the moisture contents. For the determination of moisture content in the aggregates, IS 2386 (Part 3) may be referred to. To allow for the variation in mass for aggregate due to variations in their moisture content, suitable adjustments in the masses of aggregates shall be made.
- viii. The concrete shall be deposited in its final position in a manner to preclude segregation of ingredients. In deep trenches and footings concrete shall be placed through chutes or as directed by the Engineer-in-Charge. In case of columns and walls, the shuttering shall be so adjusted that the vertical drop of concrete is not more than 1.5 metres at a time.
- ix. The surface which is to receive plaster or where it is to be joined with brick masonry wall, shall be properly roughened immediately after the shuttering is removed, taking care to remove the laitance completely without disturbing the concrete. The roughening shall be done by hacking. Before the surface is plastered, it shall be cleaned and wetted so as to give bond between concrete and plaster.
- x. On the basis of mandatory lab tests, in case of actual average compressive strength being less than specified strength but upto 70% of specified strength, the rate payable shall be in the same proportion as actual average compressive strength bears to specified compressive strength. In case average compressive strength is less than 70% of the specified strength, the work represented by the sample shall be rejected.
- xi. However, on the basis of mandatory field tests, where they prevail, the rates of the work represented by samples showing actual compressive strength less than specified strength shall be worked out as per relevant guideline of CPWD Specifications. In addition, Engineer-in-charge may order for additional tests (see Appendix 'B' of chapter 5 of CPWD Specifications) to be carried out at the cost of contractor to ascertain if the portion of structure where in concrete represented by the samples had been used, can be retained on the basis of these tests. Engineer-in-Charge may take further remedial measured as necessary to retain the structure at the risk and cost of the contractor.
- xii. If at any stage of the work, during or after placing the concrete in the structure the work is found defective such concrete shall be removed and work be done with fresh concrete and adequate rigid forms at the cost of the contractor. The contractor shall be liable to bear the cost for the cement concrete thus dismantled.
- xiii. The construction work shall be done with proper and assured system of curing duly identified areas with dates marked in paint. In hot weather the contractor shall take relevant care to cover the work with wet gunny bags/hessian cloth or use continuous ponding of water on surface so as to keep the surface wet.
- xiv. Hard stone aggregate of different sizes shall be crushed or broken from hard stone conforming to CPWD Specifications for work subject to Para below. Where CPWD Specifications for R.C.C. or any item or work are silent, the provisions of the latest Code of BIS for plain and reinforced cement concrete for general building construction I.S. 456-2000 or the concerned I.S. specifications or Code of practice shall apply.
- xv. When an R.C.C. slab or a flat slab is projected beyond the wall/beam line, the payment for such

projected part of the R.C.C. work shall be made under the corresponding item of R.C.C. slab/flat slab. Payment for centering & shuttering of the projected portion shall also be made under the item of centering & shuttering for the slab/flat slab. Nothing shall be paid for the edge shuttering of the slab/flat slab projection or otherwise. All exposed edges shall be finished as per specifications without extra payment.

# F. BRICK WORKS

- I. Type of the Bricks to be used in Masonry works in foundation and superstructure i.e Common Burnt Clay Bricks/ Fly Ash Lime Bricks / Clay Fly Ash Bricks/ Tile Brick/ Brick Bats Calcium Silicate Bricks/CC Block/AAC Block etc. shall be strictly as mentioned in Tender Item and Construction drawings.
- II. Unless specifically mentioned in Construction Drawing or Tender Item, Bricks used shall have compressive strength not less than 7.5 MPa. In case bricks of compressive strength 7.5 MPa are not available and the structure is not of load bearing nature, then use of less compressive strength bricks can be relaxed as per CPWD specification, at reduced rate as worked out by the Engineer in-charge.
- III. All brick Masonry work shall be done with the available size of F.P.S. Bricks. The measurement of the brick work would be done in the multiples of the half brick. Above three bricks, the brick work would be measured as per the actual thickness.
- IV. The 'Modular bricks' shall only be used where use of same is specifically mentioned in the relevant items.
- V. The material Specifications, dimensions, permissible tolerance, testing, acceptable quality parameters, test results, workmanship, erection and placement procedures, measurement of works and scope of works covered under rates etc all in general shall be as per CPWD Specifications with up to date correction slips unless specifically mentioned in tender documents.
- VI. Top courses of all plinths, parapets, steps and top of walls below floor and roof slabs shall be laid with brick on edge, unless specified otherwise. Brick on edge laid in the top courses at corner of walls shall be properly radiated and keyed into position to form cut (maru) corners. Where bricks cannot be cut to the required shape to form cut (maru) corners, cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) equal to thickness of course shall be provided in lieu of cut bricks.
- VII. No deductions or additions shall be done and no extra payment made for the following : Where minimum area is defined for deduction of an opening, void or both, such areas shall refer only to opening or void within the space measured.
  - a. Ends of dissimilar materials (that is, joists, beams, lintels, posts, girders, rafters, purlins, trusses, corbels, steps, etc.); up to 0.1 m2 in section;
  - b. Opening up to 0.1 Sqm in area (see Note);
  - c. Wall plates, bed plates, and bearing of slabs, chajjas and the like, where thickness does not exceed 10 cm and bearing does not extend over the full thickness of wall;
  - d. Cement concrete blocks as for hold fasts and holding down bolts;
  - e. Iron fixtures, such as wall ties, pipes upto 300 mm diameter and hold fasts for doors and windows; and
  - f. Chases of section not exceeding 50 cm in girth.
  - g. Bearing portion of drip course, bearing of moulding and cornice.

**Note:** In calculating area of an opening, any separate lintel or sills shall be included with the size of the opening but end portions of lintel shall be excluded. Extra width of rebated reveals, if any, shall also be excluded.

# G. FLOORING

- I. Final finished flooring with Marble/Granite/Stone/Ceramic/Vitrified/CC etc shall be done in pattern, layout out, sizes, thickness as shown in Construction drawings and Tender items other wise as directed by Engineer in charge.
- II. The supply, material Specifications, dimensions, permissible tolerance, testing, acceptable quality parameters, test results, workmanship, erection and placement procedures, measurement of works and scope of works covered under rates etc all in general shall be as per CPWD Specifications with up to date correction slips unless specifically mentioned in tender documents.
- III. Sample of Marble /Granite/Ceramic/Vitrified/CC Tile or any other material to be used in finish flooring shall be got approved by Contractor from Engineer in charge.
- IV. Gang saw cut granite floor slabs.

- V. Wherever the tender schedule provide for mirror polished granite slab flooring using Gang saw cut granite slabs. The size of such gang saw cut granite slabs shall not be less than 1.5m x 2.4m. The granite block shall be gang saw cut using water cutting process. The polishing of the cut stone slabs should be automatic machine polished to highly even surface without any undulations. Manual polished and kerosene cutting process slabs shall not be accepted and shall be rejected.
- VI. Proper gradient shall be given to flooring for toilets, verandah, kitchen, courtyard etc. so that the wash water flows towards the direction of floor trap. Any reverse slop if found, these shall be made good by the contractor by ripping open the floor/grading concrete and nothing extra shall be paid for such rectifications. Slope in Office, warehouse floor shall be as indicated in drawings otherwise as directed by Engineer in charge.
- VII. Final Finish flooring shall be laid over a well prepared base and sub base flooring of material & specifications as mentioned in tender items and shown in Construction Drawings.
- VIII. Sub base floor shall be laid over well prepared sub grade.

# **H. SUBGRADE**

- i. Where the pavement / Warehouse Floor is to be laid on surface obtained after cutting the soil, the sub-grade for pavement shall be prepared as per specifications relevant to item in BOQ for achieving not less than 97% of dry density as per IS : 2720 Part VIII at no extra cost or otherwise as per the procedure mentioned hereafter.
  - The sub-grade shall be excavated to a depth of 0.5 meter, watered and compacted in layers not exceeding 250mm thickness, dressing to required camber and profile and consolidation with vibratory roller of 80 to 100 KN static weight so as to achieve not less than 97% of dry density as per IS : 2720 Part VIII. However, before relaying and compacting the loosened material the surface below this level shall be suitably consolidated as directed by the Engineer but with a minimum six passes of vibratory roller. If the next 15 cm below this level does not have a relative compaction of 90%, it shall be compacted until not less than 95% dry density is obtained. Rate for work of this nature shall be covered in the item of preparation of sub-grade.
- ii. Where the pavement is to be laid on fill and height of proposed fill is less than 0.5 meter, the procedure for sub-grade preparation as mentioned above shall be followed.
- iii. Where the pavement is to be laid on fill and the height of <u>proposed fill is more than 0.5 meter</u>, <u>preparation of sub-grade is not required at these locations</u>, however, in such locations original ground level shall be compacted by rolling as directed by the Engineer as much as possible but with a minimum of six passes of vibratory roller of 80 to 100 KN static weight. No separate payment shall be made for this, as same shall covered in item of earth work in excavation and / or filling.

#### iv. Control Tests on Borrow Material

Soil suitable for consolidation under O.M.C. conditions should preferably have the following characteristics:

• Minimum percentage of clay -10%; Liquid limit- 14; Plasticity index-4; Percentage of silt should not exceed-50%; free from Peat, muck and organic soils which are unsuitable.

The Engineer-in-Charge may, however, relax these requirements taking into account availability of materials, cost of transportation and other relevant factors.

#### I. WBM /WMM

WBM/WMM wherever to be used as sub base/base course in road/warehouse floor etc. shall be laid in proper gradient, compacted thickness as shown in construction drawings. The supply, stacking, procedure for laying in position, testing, acceptance within tolerance limit, measurement and scope of work covered under rates shall be as per the guideline of relevant CPWD specifications for these works.

# J. STRUCTURAL STEEL WORKS IN COLUMN-BEAM FRAMES/ROOF TRUSS/MEZZANINE FLOOR

i. The scope of work also includes preparation& submission of shop Drawings/ Fabrication drawings, connection details of joints including all bolted / welded and riveted joints as per

design and obtaining approval for all the drawings from Engineer in charge. The agency shall prepare all the required shop drawings needed for correct and accurate erection of Steel Structure work. The design shall be strictly in accordance with the "Design Specifications" and building drawings.

- ii. Engineer in charge reserves the right to review any/all or none of the drawings, Review<sub>by</sub> Engineer in charge shall not relieve the contractor of his responsibility for correct drawing and execution of the works.
- iii. The Final GFC drawings shall directly adhere to the reviewed comments and general arrangement and shall incorporate all the comments/suggestions given by Department/Engineer In charge without any extra cost to the department and any implication on the time schedule for the completion of the work.
- iv. If there is any difference in opinion or changes to be made with regard todrawings/specifications as per the recommendation of Engineer in Charge, The Contractor shall agree to be bound by the same without any extra cost.

# Specification for steel works

- i. The work in general shall be carried out as per CPWD specifications and the relevant Indian Standards a list of which are mentioned in the particular specifications.
- ii. The fabrication and erection of the steel members shall be as per General Specification IS : 800 and stipulations contained in the other relevant standards.
- iii. The contractor shall prepare and submit the fabrication drawings, indicating the complete details of all members, detail of joints, weld sizes, length of welds, cleats holes etc. The fabrication work shall be commenced only after the fabrications drawings are approved. A scheme for fabrication and erection of the various members shall also be furnished and got approved. However such approval shall not absolve the contractor for the safety of the structure and its components during fabrication, erection and service.
- iv. The contractor shall submit manufacturer's test certificate for all the material procured by him indicating clearly the identification marks etc. The Engineer-in-charge may get samples of the materials tested for their conformity to the standards. No payments shall be made for the materials, which are used for testing.
- v. Normally Fabrication shall be carried at site of work but To advance the progress, Contractor may do fabrication works at their shop with approval of Engineer in charge. The fabrication shop of the contractor, shall have all facilities required for carrying out the fabrication work.
- vi. The material shall conform to the following specifications.
  - Structural steel rolled sections: IS 2062 Grade "A" up to 20 mm thickness, IS 2062 Grade "B" above 20 mm thickness.
  - Pipes etc. : IS 1161/1233
  - Chequered plates : IS 3502
- vii. Steel sections from the main manufacturers such as SAIL, TISCO, RINL or JINDAL only shall be permitted to be used. **The steel members shall be in single piece end to end without any intermediate joints unless specifically approved by the Engineer-in- charge.** The contractor shall get the name of manufacturer approved before placing the order. The material should be free from defects. If any defect is noticed at the time of manufacturing the same should be rejected. Re-rolled material shall not be permitted.
- viii. Welding materials shall confirm to IS : 814 & AWS E 6013 for thickness upto 20 mm and MWSE 7018 above 20 mm.
- ix. Bolts and nuts shall be as per IS : 1363 & IS : 1367. Washers shall be as per IS : 2016, IS : 5372 and IS : 5374.
- x. The bending of plates and sections shall be carried out on appropriate machines.
- xi. Cutting may be effected by sheering, cropping, sawing or by gas cutting by mechanically controlled torch. Gas cutting by hand and electric arc cutting shall not be permitted.
- xii. All cut edges shall be ground before they are welded.

- xiii. The accuracy at contact surfaces and tolerances shall be as per relevant IS standards.
- xiv. Bolt holes shall be drilled. Enlarging the holes by filling, hand drilling using flame etc.are not permitted.
- xv. The welders qualified as per procedure given in the IS standards shall only be engaged for doing the welding work.
- xvi. The welding procedure as proposed by the contractor shall be got approved inadvance from the Engineer-in-charge.
- xvii. The welds shall be subjected to visual examination, mechanical tests on samples, dye penetration tests, other non-destructive tests like radiographic/ ultrasonic tests etc.
- xviii. Internal surfaces of boxed / back-to-back members should be treated with primer.
- xix. The edges of chequered plate shall be made smooth and no burrs or jagged ends shall be left.
- xx. The structural steel required conforming to IS: 2062 shall normally be procured from the main steel producers viz. TATA, SAIL and RINL (Vizag). Tubes to be supplied by Contractor, confirming to IS 1161, shall normally be of Make TATA, APPOLO.
- xxi. In case of difficulties in getting required quantities of materials from the main producers, permission may be given as a special case to procure the materials from the secondary producers having ISI registration by Engineer in charge if the contractors approach the Engineer-in-charge with the efforts made by them in getting the materials with full justification details.
- xxii. Fabricated structural member's viz., columns, beams and purlins along with the base plates and cleats etc. shall be provided with zinc chromate steel primer coating after fabrication unless specifically mentioned otherwise in Tender Items and Specifications.
- xxiii. The quantity of the steel for structural members for the purpose of payment shall be worked out by adopting the unit weight given in the relevant IS code for tubes, angles. Channels, flats and plates etc. If the actual weight of the member is less than that specified in the code beyond the minus tolerance permissible then the materials shall be rejected. Payment on weight basis would be made as per the theoretical or actual weight whichever is less.
- xxiv. Weight of cleats, brackets, packing pieces bolts nuts, washer's distance pieces separators diaphragm gussets (taking overall square dimensions) fish plates etc. shall be added to the weight of respective items unless otherwise specified. No deduction shall be made for skew cuts.

# K. ADDITIONAL CONDITIONS FOR PRE FAB STRUCTURE IN STEEL:

i. Wherever Tender Items mentioned the Prefab Structures or Pre-Engineered Building System (PEB), The scope of work for Fabrication, Supply and Erection of Pre-Engineered Building System (PEB) is as defined in the following sections under the contract which includes manufacture, supply and erection of Structural Steel System and all accessories as per design, drawings and as per direction of Engineer-in- Charge.

# ii. Condition for Specialized Agency for PEB Structure:

In case the Main contractor is himself not a PEB Manufacturer, He will obtain the approval of Engineer in charge for selection and appointing the PEB Manufacturer/Supplier for this contract. The Engineer-in-Charge or his authorized representative shall visit the factory of PEB manufacturer and will grant the approval for Supply of PEB system based on the experience, availability of CNC machines for fabrication, cutting/welding etc and production capacity of the manufacturer. EIC or his representative will also visit the factory of PEB Manufacturer during manufacturing of PEB components for quality checks. The PEB components shall be brought to site from factory only after the satisfactory test results and quality checks asper the direction of Engineer in Charge.

- iii. After the completion of work, the contractor shall submit to the Engineer-in-Charge. 3 sets of "As Built" drawings along with CAD copies as specified elsewhere.
- iv. The contractor shall make available all worksheets/supporting data/design details to Engineer in

Charge as so desired.

v. The contractor shall clarify to Engineer In Charge any queries regarding specifications, rates, etc as and when requested/ required. Rate of analysis for the rates quoted shall also be furnished by the Tenderer If desired by Engineer In Charge.

# vi. The following are the minimum requirements of tests on welds.

- Visual examination : 100%
- Dye penetration test: 30 % after back gouging and after final finish.
- Mechanical test: 1 test each on a column and beam members.
- Radiography test: 2% of welds.

Where radiography test is not possible ultrasonic test shall be carried out. The acceptance criteria shall be as per IS specifications and as decided by the Engineer-in- charge.

- vii. Apart from the IS Codes mentioned above, all other relevant codes such as American standards (AISC, MBMA, AISI & AWS specifications) related to the specific job under consideration and / or referred to in the above mentioned codes may be followed wherever applicable, if the specifications for the same are not available in the relevant IS codes.
- viii. When Contractor scope of works includes supply of Prefab/PEB structural steel system, NO Fabrication at site shall be allowed except erection works and minor steel works like nonstructural steel works.

# L. DOOR/WINDOWS/VENTILATOR WORKS

- i. The supply of materials viz Rolling Shutters/Mild Steel doors/T sections doors/windows/ Aluminum/UPVC Sections for doors / windows/ ventilators/ partitions, Wooden paneled/ flush doors/ cupboard shutters/ PVC /FRP shutters/ frames/ Pressed steel frames/ all type of fittings/glazing/paneling /decorative polish/veneering/Wire gauge/expanded metal mesh/MS grills/Chqd plate/Handrails etc including their storage at site, procedure of installations, workmanship, testing, acceptance within tolerance limit, measurement and scope of work covered under rates for these works shall be as per relevant CPWD specifications unless specifically mentioned otherwise in tender documents, drawings.
- ii. Wood work shall not be painted, oiled or otherwise treated before it has been approved by the Engineer-in-Charge.
- iii. Aluminum Fittings shall be anodized to natural matt finish or dyed anodic coating not less than grade AC 10 of IS 1868. Mild steel Fittings shall be bright finish black stone enameled or copper oxidized (black finish), nickel chromium plated or as specified. Brass Fittings shall be finished bright satin finish or nickel chromium plated or copper oxidised or as specified.
- iv. All fittings and fixtures of doors, windows, ventilators shall be got approved from the Engineer-in-Charge before procurement well in advance and the approved samples shall be kept at site till completion of the work.
- v. Wooden flush door shutter/ PVC/FRP /Fire rated door shutters, as specified shall be obtained from factories to be approved by the Engineer- in-charge. The contractor shall inform well in advance to the Engineer- in-charge the name and address of the factory where from he intends to get the shutters manufactured. The contractor will place order for manufacturing of shutters only after written approval of the Engineer- in- charge in this regard is given. The contractor is bound to recommend name(s) of another factory from the approved list in case the factory already proposed by the contractor is not found competent to manufacture quality shutters.
- vi. Shutters samples shall be first submitted and got approved by Engineer in charge Shutters will however, be accepted only if they meet the specified tests/technical requirements
- vii. <u>Rolling Shutters:</u> The shaft of rolling shutters shall be of M.S. Pipe heavy duty 40 mm. nominal bore, 48.3 mm outer dia, thickness 4.05 mm and weight of pipe shall be 4.43 Kg./metre. At least three springs made of H.T. steel grade 2 of I.S. 4454/1967of 27.5 mm. length shall be used in each shutter. The guide channels of minimum 60 mm depth shall be made of 3.15 mm thick M.S. strips Lock rail at bottom shall be of 3.15 mm thickness with M.S. angle 35 mm x 35 mm x 5 mm welded at the bottom and brackets for fixing the M.S. pipe on wall shall be of M.S. plate 3.15 mm thick. Top cover of shutters shall be made out of M.S. Plate 1-25 mm thick sliding bolt for lock rail

shall be made of M.S. flats not less than 50 mm x 6 mm size at both ends with inside and outside locking arrangement. Further details if any not covered by general specifications of Delhi CPWD specifications 2009 Volume I and details described above shall be as per IS specifications No.6248 of 1971/revision (latest)

The contractor shall arrange one more spring than the total required number, for testing purpose. The Engineer-in-Charge shall select at random one spring to be sent for test regarding grade of H.T. steel wire used in the springs. No extra payment shall be made for the additional spring arranged.

The rates to the quoted for supplying and fixing rolling shutter should include making necessary chases in masonry and making good the same for fixing of side guide etc.

# M. FINISHING

- i. The work shall be carried out to provide a smooth finish with pleasing appearance in high standards of workmanship and quality of material up to the satisfaction of Engineer in charge.
- ii. The supply of materials for finishing works and their storage, procedure of applications, testing, acceptance within tolerance limit, measurement and scope of work covered under rates for these works shall be as per relevant CPWD specifications unless specifically mentioned otherwise in tender documents, drawings.
- iii. For all exposed brick work or tile work double scaffolding independent of the work having two sets of vertical supports shall be provided. The supports shall be sound and strong, tied together with horizontal pieces over which scaffolding planks shall be fixed. For all other work in buildings, single scaffolding shall be permitted. In such cases the inner end of the horizontal scaffolding pole shall rest in a hole provided only in the header course for the purpose. Only one header for each pole shall be left out. Such holes for scaffolding shall, however, not be allowed in pillars/columns less than one metre in width or immediately near the skew backs of arches. The holes left in masonry works for scaffolding purposes shall be filled and made good before plastering.
- iv. For external and under coat plaster work, the fine aggregate shall conform to grading IV. For finishing coat Plaster work the fine aggregate conforming to grading zone V shall be used unless specified otherwise.
- v. The plaster shall be kept wet for a period of at least 7 days. During this period, it shall be suitably protected from all damages at the contractor's expense by such means as the Engineer-in-Charge may approve. The dates on which the plastering is done shall be legibly marked on the various sections plastered so that curing for the specified period thereafter can be watched.
- vi. Wherever scaffolding is necessary for Whitewash /Painting works, it shall be erected on double supports tied together by horizontal pieces, over which scaffolding planks shall be fixed. No ballies, bamboos or planks shall rest on or touch the surface which is being white washed. Where ladders are used, pieces of old gunny bags shall be tied on their tops to avoid damage or scratches to walls.
- vii. For White wash /waterproofing cement paint on new work, three or more coats shall be applied till the surface presents a smooth and uniform finish through which the plaster does not show. The finished dry surface shall not show any signs of cracking and peeling nor shall it come off readily on the hand when rubbed. For old work, after the surface has been **prepared**, a coat of white wash/cement paint shall be applied over the patches and repairs. Then a single coat or two or more coats of white wash/cement paint as stipulated in the description of the item shall be applied over the entire surface. The white washed surface should present a uniform finish through which the plaster patches do not appear.
- viii. Distempering: If the wall surface plaster has not dried completely, cement primer shall be applied before distempering the walls. But if distempering is done after the wall surface is dried completely, distemper primer shall be applied. Oil bound distemper is not recommended to be applied, within six months of the completion of wall plaster. However, newly plastered surfaces if required to be distempered before a period of six months shall be given a coat of alkali resistant priming Paint conforming to IS 109 and allowed to dry for at least 48 hours before distempering is commenced.
- ix. The color code and make of Painting material on exterior or interior finish shall be first approved by Engineer in charge. Contractor shall submit all possible combinations, physical samples on size 300x300 mm over wall for approval of color without any extra cost.
- x. The Primer, Synthetic Enamel paint, distemper etc., of as approved by the Engineer- in- charge and of low VOC (unless specified otherwise), shall only be used and brought to the site of workin the

original sealed containers.

- xi. The material brought to the site of work shall be sufficient for at least 30 days of work.
- xii. The material shall be kept under the joint custody of contractor and representative of the Engineerin-charge. The empty containers shall not be removed from the site till the completion of the work without permission of the Engineer-in-charge.
- xiii. Contractor shall submit the copies of invoices of Painting material purchased by them for incorporation in to the contract works.

# N. WATER SUPPLY, INSTALLATIONS AND DRAINAGE

- i. The contractor shall furnish all labor, material and equipment, transportation and incidental necessary for supply, installation, testing and commissioning of the complete Plumbing / system as described in the Specifications, Tender Items and as shown on the drawings. This also includes any material, equipment, appliances and incidental work not specifically mentioned herein or noted on the Drawings/Documents as being furnished or installed, but which are necessary and customary to be performed under this contract.
- ii. The Plumbing / Sanitary system shall comprise of following:
  - a. Sanitary and water supply Fixtures and Fittings.
  - b. Internal and External Water Supply.
  - c. Internal and External Drainage
  - d. Approval from Local Authorities
  - e. Balancing, testing & commissioning.
  - f. Test reports and completion drawings
- iii. The contractor shall procure and install all pipes, its fittings, joints/bends/tees /sockets /nipples including shut-off valve etc as specified.
- iv. The contractor shall ensure that senior and experienced plumbers are assigned exclusively for this work. Such plumber(s) should have valid license from the local authorities. The project management shall be done through modern technique. For quality control & monitoring of workmanship, contractor shall assign at least one engineer who would be exclusively responsible for ensuring strict quality control, adherence to specifications and ensuring top class workmanship for the installation.
- v. The work shall be in conformity with the Bye-laws, Regulations and Standards of the local authorities concerned. But if these Specifications and drawings call for a higher standard of materials and / or workmanship than those required by any of the above regulations and standards, then these Specifications and drawings shall take precedence over the said regulations and standards. However, if the drawings and specifications require something which violates the Bye-laws and Regulations, then the Bye-laws and Regulations shall govern the requirement of this installation.
- vi. The contractor shall obtain all permits/ licenses and pay for any and all fees required for the inspection, approval and commissioning of their installation. However, all receipted amount shall be reimbursed on production of proof of payment.
- vii. The Plumbing drawings are to be given by the contractor for obtaining approval from Engineer-in-charge. The Plumbing / Sanitary Drawings given by the Engineer in- Charge or issued with tenders are diagrammatic only and indicate arrangement of various systems and the extent of work covered in the contract. These Drawings indicate the points of supply and of termination of services and broadly suggest the routes to be followed. Under no circumstances shall dimensions be scaled from these Drawings. The contractor shall follow these drawings in preparation of his shop drawings, and for subsequent installation work.
- viii. The contractor shall examine all architectural, structural, plumbing, electrical and other services drawings and check the as-built works before starting the work, report to the Engineer In-Charge any discrepancies and obtain clarification. Any changes found essential to coordinate installation of his work with other services and trades, shall be made with prior approval of the Engineer In-Charge without additional cost to the department.
- ix. All the shop drawings shall be prepared on computer through AutoCAD System basedon Architectural drawings and site measurements. Contractor shall furnish, for the approval of Engineer-in-charge, the two sets of detailed shop drawings of complete work and materials including layouts / Typical toilets drawings showing exact location of supports, flanges, bends, tee connections, reducers, detailed piping drawings showing exact location and type of supports, valves, fittings etc; external insulation details for pipe insulation etc.

- x. These shop drawings shall contain all information required to complete the work. These drawings shall contain details of construction, size, arrangement, operating clearances, performance characteristics and capacity of all items of equipment, also the details of all related items of work by other contractors. Each shop drawing shall contain tabulation of all measurable items of equipment/materials/works and progressivecumulative totals from other related drawings to arrive at a variation-in-quantity statement at the completion of all shop drawings. Minimum 3 sets of drawings shall be submitted after final approval along with CD. When he makes any amendments in the above drawings, the contractor shall supply two fresh sets of drawings with the amendments duly incorporated along with check prints, for approval. The contractor shall submit further 3 sets of shop drawings to the Engineer In-charge and all other agencies. No material or equipment may be delivered or installed at the job site until the contractor has in his possession, the approved shop drawing for the particular material/equipment / installation.
- xi. Shop drawings shall be submitted for approval four weeks in advance of planned delivery and installation of any material to allow the Engineer-in-charge ample time for scrutiny. Noclaims for extension of time shall be entertained because of any delay in the work due to his failure to produce shop drawings at the right time, in accordance with the approved programme.
- xii. Samples of all materials like valves, pipes and fittings etc. shall be submitted to the Engineer In-Charge prior to procurement for approval and retention by Engineer In-Charge and shall be kept in their site office for reference and verification till the completion of the Project. Wherever directed, a mockup or sample installation shall be carried out for approval before proceeding for further installation without any extra cost.
- xiii. Approval of shop drawings shall not be considered as a guarantee of measurements or of building dimensions. Where drawings are approved, said approval does not mean that the drawings supersede the contract requirements, nor does it in any way relieve the contractor of the responsibility or requirement to furnish material and perform work as required by the contract.
- xiv. All materials and equipment shall conform to the relevant Indian Standards and shall be of the approved make and design. Makes shall be in conformity with list of approved manufacturers.
- xv. Balancing of all water systems and all tests as called for the CPWD Specifications shallbe carried out by the contractor through a specialist group, in accordance with the Specifications and ASPE / ASHRAE Guidelines and Standards. The installation shall be tested and shall be commissioned only after approval by the Engineer-in-charge. All tests shall be carried out in the presence of the representatives of the Engineer-in-charge and nothing extra shall be payable on this account.
- xvi. The contractor shall submit "completion plans of services" for water supply, internal installations and building drainage work within 15 days of the date of completion. These drawings shall be submitted in the form of two sets of CD"s and four portfolios (300 x 450 mm) each containing complete set of drawings on approved scale indicating the work as installed. These drawings shall clearly indicate complete plant/toilet room layouts, piping layouts and sequencing of automatic controls, location of all concealed piping, valves, controls and other services. In case the contractor fails to submit the completion plans as aforesaid, security deposit shall not be released and these shall be got prepared at his risk and cost
- xvii. The CCI/CI/PVC pipe and GI pipe etc. wherever necessary shall be fixed to RCC columns, beams etc. with rawl plugs and nothing extra shall be paid for this.
- xviii. The variation in consumption of material shall be governed as per CPWD Specification and clauses of the contract to the extent applicable.
- xix. Rates quoted shall be inclusive of all work and items given in the above mentioned specifications and Schedule of Quantities and applicable for the work under floors, in shafts or at ceiling level at all heights and depths. All rates are inclusive of cutting holes and chases in RCC and masonry work and making good the same unless specifically mentioned otherwise. Rates are inclusive of pre testing and on site testing of the installations, materials and commissioning
- xx. Cleaning and Disinfection of Pipelines:- On completion of hydraulic tests and before a pipe is disinfected, it shall be proved to be free from obstruction, debris and sediment by scouring or by any other process which the Engineer-in-charge may prescribe. Upon satisfactory completion of testing and cleaning, the pipelines shall be disinfected as order. Chlorine solution shall be applied at the charging point as the pipeline is being filed and dosing shall be continued until the pipelineis full and at least 50 parts of chlorine per million parts of

water have been made available and distributed evenly. If ordinary bleaching powder is used, proportions will 150 gms of power to 1000 litre of water. If a proprietary brand is used, the proportion shall be as specified by the manufacturer. The treated water shall be left in pipeline for a period as directed but not exceeding 24 hours chlorine residual tests shall be taken at various pointsalong the pipeline. The disinfection process shall be repeated until the sample of water taken from the pipeline are declared fit for human consumption by a recognized laboratory.

xxi. The supply of Input materials and their storage, procedure for laying in position, testing, acceptance within tolerance limit, measurement and scope of work covered under rates for water supply, sanitation, drainage works shall be as per the guideline of relevant CPWD specifications unless specifically mentioned otherwise in tender documents, drawings.

# **O. CONSTRUCTION & EXPANSION JOINTS**

i. Construction joints in PCC, RCC and Light Weight Concrete works etc., shall be provided only at places as per approved structural drawings. It shall not in any manner structurally or functionally affect the structure. If, any additional construction joint is required to be provided, it shall be done with approval of the Engineer-in-Charge. The centering, shuttering, strutting etc., required for the construction joint shall be provided as per the CPWD Specifications. Nothing extra shall be payable on this account.

#### TREATMENT TO THE CONSTRUCTION JOINTS AND RECTIFICATION OF DEFECTS.

- ii. All care shall be taken to minimize the number of construction joints in the rafts, floors, and walls as well as in the levelling course of PCC at base. Still, wherever the construction joints are provided, these shall be slightly opened up and then suitably filled with cement mortar 1:3 (1 cement: 3 fine sand) after applying a bond coat of cement slurry. The aluminum nipples shall be fixed in the cavity and crevices, if required. Then cement slurry of w/c ratio 0.5 shall be pressure grouted through these nipples as required, which shall then be suitably cut. Nothing extra shall be payable on this account.
- iii. All care shall be taken to avoid any honey combed concrete or any cavity. Still, if any honey combed concrete or cavity in RCC/CC works is encountered the same shall berectified by removing all loose concrete by chiselling. The chipped concrete surface shall be cleaned and made dust free by blowing compressed air and then washed **tenvh**water (but without excess water). Then a bond coat of polymer modified cement slurry @ 2.2 kg of cement per sq. m. of concrete surface, in two coats, shall be applied as specified. The second coat shall be applied immediately within 15-20 minutes of application of the first coat. A coat of polymer modified cement plaster of mix 1:3 (1 cement: 3 fine sand) of the required thickness shall be applied as specified bfill the cavity if the required thickness is less than 20 mm. If the required thickness is more than 20 mm. the cavity shall be filled by concrete of relevant grade after providing the required centering and shuttering. The surface shall then be moist cured for minimum 7 days. Nothing extra shall be payable on this account.

#### **Expansion Joint**

- i. General Seismic / separation joints shall be provided where shown on the drawings. They shall be constructed with in gap between the adjoining parts for the works of the width specified in the drawings.
- ii. The contractor shall ensure that no debris is allowed to enter and be lodged in seismic and separation joints.
- iii. Seismic or separation joints shall be provided with approved 50mm thickness of compressible filer board, backer rod and polysulphide sealant compound etc.,
- iv. Board to be used in expansion joint shall be of best approved quality and shall be got approved before use. It shall have minimum density of 95 kg/cum, Non staining with less than 1% water absorption and compression recovery of 93% minimum as per the specifications.

# **Method of Application**

- v. 50mm thick expansion board having sufficient width directed by Engineer-in-charge shall be provided in expansion joint before filling and finishing the expansion joint with sealant.
- vi. The expansion joint shall be cleaned and made dry completely. All loose materialsshall also be removed. The joints gap shall be made uniform in width and depth after cleaning the joints. The backup materials of best quality shall be provided in position in order to produce the size of joint i.e. width and depth. The primer part of I and II shall be mixed thoroughly together in required proportion as prescribed by manufacture specification, so that a uniform mixture obtained. The mixed solution shall be applied to two sides of the joint that it covers the sides complete.
- vii. Disturbed edges of RCC members near expansion joints shall be finished with rich mortar without any extra work includes providing required width of expansion board in the joints and measurement of expansion board only shall be taken.

Sampling criteria

Following test carried out at every 100 sqmt.

- (i) Density
- (ii) Water absorption
- (iii) Compression recover

# P. CONSTRUCTION SITE LAB:

- i. The contractor shall arrange and provide at the site of work all the equipments for field testing as required like :-
  - balances, sieves, slump cone, dial gauges,
  - graduated measuring cylinders, steel tapes, vernier calipers, micrometer screw gauges, plumb bobs, spirit levels ,
- Total station survey equipment, magnifying glass, screw drivers, plastic bags for samples, etc.
- ii. Allowing establishing the site laboratory by the contractor shall not absolve the contractor from fulfilling the criteria of getting the tests done in an independent laboratory. The decision of the Engineer-in-Charge of allowing any test in the site laboratory or any other laboratory shall be final and binding on the contractor and no claim of any kind whatsoever shall be entertained from the contractor on this account.

# Q. OTHER IMPORTANT-MISCLLANEOUS

 (i) Even if the certain items of work are carried out by the specialized sub-contractors the responsibility for the work shall however rest with the main contractor only.
 Procurement Storage and Payment of Cement Steel Bitumen etc.

# Procurement, Storage and Payment of Cement, Steel, Bitumen etc.

- (ii) The contractor shall procure Portland Pozzolana Cement (PPC) as per IS-1489 Part-I in all the works except Cement Concrete Pavement works, wherein Ordinary Portland Cement (OPC) of Grade 43 (IS:269:2015) and/or 53 Grade (IS: IS:269:2015) shall be used. The PPC & OPC to be used shall be of approved make, as specified in the list of Approved Makes (enclosed with Technical Specifications).
- (iii) The contractor shall procure steel reinforcement bars conforming to IS 1786:2008 pertaining Fe415D or Fe500D, structural steel conforming to IS-808 and bitumen should conform to IS : 702 and 703 as per the item/drawing from manufacturers of approved make, as specified in the list of Approved Makes (enclosed with Technical Specifications).
- (iv) The storage of cement should be done by contractor as per IS:4082-1996 (recommendation on stacking & storage of construction materials at site). Sheds having capacity as decided by Engineer-in-Charge to store the cement shall be provided by contractor for which no extra payment shall be made. All such sheds/store, after completion of work shall be removed by contractor at its cost and site shall be cleared.
- (v) Cement & steel reinforcement shall be brought at site in bulk supply of approx. 50 tonnes & 10 tonnes respectively or more or as decided by the Engineer-in-charge. Each bag of cement must weigh 50 kg, subject to variation as per BIS code, bearing manufacturer's name & ISI marking.
- (vi) The contractor shall be responsible for the watch & ward, safety of the Cement store/shed, Bitumen & Steel. The contractor shall facilitate inspection of the same by the Engineer-in-charge at any time. Material supplied by the contractor should be in countable position and properly stacked.
- (vii)Steel reinforcement shall be stored by the contractor at site of work in such a way as to prevent distortion & corrosion and nothing extra shall be paid on this account. Bars of different sizes & lengths shall be stored separately to facilitate easy counting & checking.

For checking nominal mass, tensile strength, bend test, re-bend test etc. specimen of sufficient length shall be cut from each size of the bar at random at frequency

Size (dia.) of Bar	For Consignment below 100 T	For Consignment over 100 T		
Under 10 mm	One sample for each 25 tonnes or part thereof	One sample for each 40 tonnes or part thereof		
10 mm to 16 mm	One sample for each 35 tonnes or part thereof	One sample for each 45 tonnes or part thereof		
Over 16 mm	One sample for each 45 tonnes or part thereof	One sample for each 50 tonnes or part thereof		

not less than that specified below:

- (viii) Proper daily record of cement, steel, paint and bitumen consumption shall be maintained at site by the Contractor. The register shall be duly signed by the Contractor/authorised representative of contractor and the same will be checked by the Site Engineer / Engineer-in-charge from time to time. In case, concrete is being obtained from RMC plant, record of cement of the same shall be kept, based on the computerized receipt of mix proportion of each lot. Actual issue and consumption of cement & steel on work shall be regulated and proper accounts maintained, as per provision of the Terms and conditions of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in Clause 38 of the General conditions of contract and shall be governed by conditions laid therein.
- (ix) Payment for steel reinforcement shall be made on the basis of standard weight of the bars used as per approved drawings. in case weight of bars is more than or less than the standard weight, but within the tolerance limits, as specified in BIS; the payment will be restricted to lesser weight in case of steel having less weight than the specified & standard weight, in case steel having more weight than specified.
- (x) Cement, Steel & Bitumen brought to site and remaining unused after completion of work shall not be removed from site without written permission of the Engineer-incharge.
- (xi) No claim whatsoever shall be entertained by CWC on account of delay in nonavailability of these materials in the market.
- (xii)Cladding of cement and rusting of steel should be avoided to the maximum extent possible. For such cladding of cement and/or rusting of steel, which may render the same unusable, the contractor shall be responsible to make good such quantities, the loss at his own cost.

# TECHNICAL CONDITIONS AND SPECIFICATIONS FOR ELECTRICAL WORKS

#### **1.** Tender Drawings and Construction Drawings :

- 1.1 These drawings are meant for Tenderer's guidance only. "Approval for Construction" drawings will be furnished to the contractor during the progress of work to supplement the bid drawings. Construction drawings will be revised and fresh copies issued to the contractor from time to time to incorporate any change to be adopted in the work as per final design to suit any change to be adopted in the work as per final design to suit any change to be adopted in the work as per final design to suit any change to be adopted in the work. Hence, "Approved for Construction" drawings will be furnished progressively during the progress of work, broadly conforming to construction schedule.
- 1.2 HT/LT main panel, other major equipments, other Distribution Board drawings and cable route shall be submitted by the contractor for approval of CWC / Consultant before starting fabrication, manufacture.
- 1.3 Details shown either on the drawings or stated in the Specification shall prevail upon drawings in case of doubts. However, in case of ambiguity, the more stringent shall be applicable.
- **1.4 Conformity to IE Act, IE Rules and Standards :** All Electrical works shall be carried out in accordance with the provisions of Indian Electricity Act, 2003 and Indian Electricity Rules, 1956 amended up-to-date (date of call of tender unless otherwise specified).

## 1.5 Earthing

Earthing shall be carried out as per IS rules 3043 code of practice for earthing with latest amendments and as per specification and site requirement.

# 2.0 Guarantee

The tenderer shall guarantee the equipments offered for satisfactory performance for a period of 12 months from the date of commissioning and handing over the installation to the employer against defects arising out of faulty design, material & workmanship. The tenderer should make good all the defects free of costs during the guarantee period and replace or repair the defective equipments/parts fee of cost promptly and satisfactorily.

### 3.0 Inspection & Testing

The purchase representative shall be free of visit the manufacturers work at all reasonable times to witness and inspect the testing of equipments. It is duty of the tenderer to see all the equipments supplied are tested as per relevant IS/BS specifications. The contractor shall furnish three copies of manufacturer's test certificate for the routine and type test conducted on the equipments offered. If necessary the contractor shall arrange to conduct all the routine tests at the manufacturer's premises in presence of CWC representative. On receipt of the equipments/materials at site, the tenderer shall offer equipments/materials for inspection of electrical engineer and get approved before installation.

#### 4.0 Pre-Commissioning Tests of Equipment

HT/LT switchgear, Transformer LT cables and DG set shall be subjected to the precommissioning tests as per approved Performa by employer. The pre-commissioning test report shall be sent to the Consultant/CWC for approval for electrical installation/license for releasesanctioned load.

# 5.0 Approval of Drawings

The drawings for HT Panels and LT Panels, High Mast, DG set and cable layout shall be offered by the tenderer for approval of CWC and manufacturing/laying of these items can be taken in hand only after approval of the drawings by CWC. The tenderer shall also supply three copies of approved drawings for LT switchgear and transformers (both the dimensional and schematic) alongwith 3 copies route drawings & earthling positions etc.

- **6.0** The contractor shall provide all kinds of facilities for inspection of the works by the Engineer of CWC.
- **7.0** The electrical work shall conform to CPWD General Specifications for external with up-to-date amendments and for internal electrification works with up-to-date amendments.
- **7.1** The electrical works other than internal & external electrification like DG Set, Substation, High Mast, Fire Detection & Alarm system, Heating, Ventilation & Air Conditioning System (HVAC) and Lifts & Escalators shall conform to latest CPWD's General Specifications with up-to-date amendments.

#### 8. Liaisoning / Approval Work with Statutory Authorities

It will be responsibility of the contractor to do liaisoning work for obtaining necessary approvals / clearances for electrical load sanction and power supply connection etc. to energizing the terminal, the statutory charges as per the State Electricity Board demand note will be paid by the CWC.

# **ANNEXURE**

S. Nr.	Name of Material	Make
	Civil Items	
1 (a)	Cement (Portland Pozzolana Cement)	ACC, Ultra Tech., J. P. Rewa, Vikram, Shree Cement, Lafarge cement, Mycem cement, Birla cements, Prism Cement, Ambuja Cement& Cement Corporation of India, JK Laxmi, Dalmia or Reputed manufacturers of Major plants approved by Engineer-in Charge whose cement confirming to latest IS Specification
1 (b)	Cement (Ordinary Portland Cement)	Gujarat Ambuja, ACC, JK, Vikram, Shree, Ultratech, Birla Uttam, Binani, Lafarge, Madras Cement (Ramco), India Cement, Jaypee, Dalmia or Reputed manufacturers of Major plants approved by Engineer-in Charge whose cement confirming to latest IS Specification
2	Reinforcement Steel	TATA, SAIL, RINL, JINDAL or BIS approved Licence holder/ manufacturer
3	White Cement	Birla White, JK, Kamdhenu.
4	Ceramic Glazed Tile	Kajaria, Johnson and Somany (all first quality) or equivalent
5	Vitrified Floor Tile	Kajaria, Johnson and Somany (all first quality) or equivalent (Min. 10mm thickness & Grade-V)
6	Atacticpoly-propylene(Membrane sheet)	Fibrex India Ltd, Polygomma Industries Pvt Ltd, and Industrial rubber products. (Minimum thickness 5.0 mm)
7	PVC drain Pipe	Supreme, Prakash, Kissan (Agro) (Min 6.0 kgf pressure or as/ Engineer's Instructions)
8.	CPVC water supply pipe	Astral, Supreme, Prakash & Prince (wall pressure Min 500 psi)
9.	G.I. Pipes	Jindal (Hissar), Prakash Surya, Tata or equivalent
10.	WC	Roca, Kohler and Hindware
11.	Wash Basin	Roca, Kohler and Hindware
12.	Urinal	Roca, Kohler and Hindware
13.	CP fitting	Grohe, Kohler and Hindware
14.	C.I. pipe & fitting	SKF, Electrosteel
15.	Aluminium frame	Jindal, Hindalco
16.	Float glass	Modi, St Gobains or HNGIL
17.	Toughened Glass	GSC, AIS, Assahi
18.	Frameless Glass fitting	Ozone or Dorma
19.	Pre-laminated board	Greenlam, Merino or Kitply
20.	Gypsum Board ceiling	Channels and board make of India Gypsum or Lafarz
21.	Grid Ceiling	Grid and tile of Armstrong make (ULTIMA regular panel and Silhouette Xl 1/8" Reveal)
22.	POP punning	Sakarni, Shri Ram, JK
23.	Acrylic Paint	Asian, ICI (Dulux), Nerolac, Berger, Jhonson & Necolson

S. Nr.	Name of Material	Make
24.	Stainless Steel	Jindal, SAIL, Indian Stainless Steel
25.	G.I. Fittings	UNIK, ZOLOTO, NVR or equivalent
26.	Structural Steel	TATA, SAIL, Jindal, RINL, IISCO or Manufacturer having BIS approved Licence.
27.	Structural Steel- MS pipes only	TATA, Jindal, or Manufacturer having BIS approved Licence.
28.	Stainless Steel Hardware	Hettich, Godrej, Droma
29.	Stainless Steel Bolts, Washers & Nuts	Kundan, Puja, Atul
30.	Chequered Precast Concrete Tile	Hindustan Tiles, Ultra, Swatik Tiles
31.	PVC casing pipe	Kissan (Agro), Appollo& Supreme
32.	Ply board & Ply	Green Ply, Kitply, Century
33.	Laminate	Greenlam, Merino, Century
34.	Wall putty	Birla, JK, Asian
35.	Submersible Pump	Crompton Greaves, Kirloskar, KSB
36.	Galvalume Sheets	TATA Bluescope, JSW colouron, JSW Steel
37.	Self drilling/ tapping Zinc plated screws size 5.5x55mm for Galvalume sheets	HILTI or equivalent

Above makes of equipment are approved subject to their meeting the specifications. The contractor, however, shall seek approval of specific make from Engineer In-charge before commencing the work. The decision of Engineer in-charge shall be final and binding on the contractor in this respect.

# Approved list of Materials/Equipment/Accessories Electrical Items

S.No.	Equipment	IS No.	Approved Makes/ Manufactures
1	LT Panel	Relevant IS	Havells, Neptune, Advance, C&S, Adlec, Geetu Electrical System Pvt. Ltd./ECS, Ghaziabad/Risha Control Engineers Pvt. Ltd./TSR Enterprises, Kolkata
2	МССВ		L&T, Siemens, C&S, GE, Crompton/Schnieder/ABB/Indo- Asian, Havells
3	Floodlight /light fittings	-do-	Bajaj, Crompton, Phillips, Halonix, Havells
4	High Masts		Bajaj, Crompton, Valmont, Phillips
5	XLPE insulated, PVC Sheathed Alu. Conductor armoured/un- armoured power cables (HT & LT)	ISI 7098 (Part I)	M/s Havells , M/s Fort Gloster M/s ICL/Gem Cab, universal, polycab, KEC/KEI, Grandlay
6	Copper conductor cables		Havells/Standard/Finolex/Gem Cab, universal, polycab, Grandlay
7	Cable joints for XLPE LT & HT		Raychem, M-Seal
8	Measuring instruments (Digital)	1248 and 6236 latest	AE, Capital, Neptune/Rishab (L&T)/as per OEM Standard
9	Selector Switch	To relevant ISS	Control Switch Gear/Kaycee/L&T as per OEM standards.
10	Indicating lamps (LED TYPE)/Push Buttons	-do-	Binay/Schneider/L&T/HPL or as per OEM standard
11	Contactor	-do-	L&T/ABB/Schnider/Siemens/Indo- Asian
12	MCB		MDS/ Hager , legrand, ABB/Indo- Asian/Havells
13	Instrument Transformer		AE, Kappa, Alsthom or as per OEM standard
14	Diesel Engine		Cummins/Kirlosker/Kirlosker Green/ KOEL/Caterpiller/Greaves/KEC
15	Alternator		AVK/Stamford/KEC/Crompton Greaves/ KOEL/Kirlosker Green
16	Cable Glands	Relevant IS	Comet/Jainson
17	Cable lugs copper/ Aluminium	Relevant IS	Dowells/Jainson
18	Distribution Boards	Relevant IS	Hager/standard/Legrand/ ABB/Havells
19	Battery	Relevant IS	Exide, Standard Feruk/Cummins /as per OEM standard
20	Transformer	As per latest IS/IS-1180	Kirloskar, Indian Transformer(Gurgaon)/ Kanohar/AMCO/KOTSONS/ Crompton/MEIL

21	HT Panel	AREVA/Kirloskar/Crompton/Tricoli
		te/Adlec/ABB/Schnider/GE
22	Vacuum Circuit Breaker	Kirloskar/AREVA/Crompton/GE
		ABB/Schnider/ Indo-Asian
23	Relay	ABB/Siemens/L&T/English
		Electric/Areva/as per OEM standard.
24	Capacitors	Neptune Ducattai/
		Siemens/Matrix/ABB
25	LED fittings	Crompton/Philips/Bajaj/Orient/Insta
		Power/Halonix/Havells
26	Ceiling fans/Exhaust Fan	Crompton/Havells/GE/Orient/Bajaj
27	Window Air Conditioner &	Toshiba/ Carrier/ Mitsubishi/ Daikin
	Split Air Conditioner	/ Voltas/ Hitachi, / Blue Star/ LG

# Note:

Above makes of equipment are approved subject to their meeting the specifications. The contractor, however, shall seek approval of specific make from Engineer In-charge before commencing the work. The decision of Engineer in-charge shall be final and binding on the contractor in this respect.

Items that are not covered in the above list and are required for execution shall be procured with the approval of Engineer In-charge. The decision of Engineer In-charge shall be final and binding on the contractor in this respect.

# SECTION -IX

# (WORK REGISTERS & TESTING PROFORMAS)

#### SITE ORDERS BOOKS

NAME OF WORK

DATE OF COMMENCEMENT / PERIOD FOR COMPLETION

SL	REMAKRS OF THE INSPECTING OFFICER OR CONTRACTOR	ACTON TAKEN AND BY WHOM	REMARKS
1	2	3	4

# APPENDIX – T-II

# HINDRANCE REGISTER

SL	Nature of Hindrance	Items of Work that Could Not be Executed Due to this Hindrance	Date of Start of Hindrance	Date of Removal of Hindrance	Over- Lapping Period if any	Net Hindrance in Days	Sign of AE	Weightage of the Hindrance	Net Effective Days of Hindrance	Sign of EE	Remarks of Reviewing Officer
1	2	3	4	5	6	7	8	9	10	11	12

# MATERIAL AT SITE ACCOUNTS

Region

✤ Name of Work

✤ Name of Article

Estimate Requirements

✤ Issue Rate

SL	Date of Receipt	Received From	Unit	Qty. Received	Progressive Received Qty.	Date of Issue	To Whom Issued	Qty. Issued	Progressive Issued Qty.	Balance	Remarks
1	2	3	4	5	6	7	8	9	10	11	12

#### **APPENDIX T-IV**

# **CEMENT REGISTER**

Date of Receipts	Quantity Received	Progressive Recd. Quantity	Date of Issue	Quantity Issued	Items of Work For Which Issued	Quantity Returned at the End of The Day	Total Issue	Progressive Total	Daily Balance at Hand	Contractor's Initial	Site Engineer's Initial	Remarks of AE/EE at Periodical Checks
1	2	3	4	5	6	7	8	9	10	11	12	13

# **APPENDIX T-V**

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# **REGISTER FOR RECORDING LEVELS**

SL	Changes	Back Sight	Intermediate Sight	Fore Sight	Height of the Instrument	Reduced Level	Remarks
1	2	3	4	5	6	7	8

# **REGISTER FOR SILT CONTENT OF FINE / COARSE SAND**

SL	Date of Test	Source of Material	Height of Silt After Setting (V1)	Height of Sand After Setting (V2)	%age of Silt Content (V1/V2x100)	Acceptability As Per Specification	Sign. of Site Engineer With Date	Sign. of Contractor With Date	Location Where Sand Used	Remarks / Action Taken
1	2	3	4	5	6	7	8	9	10	11

# **REGISTER FOR SLUMP TEST**

SL	Date of Testing	Item of Work & Location	Vibrator Used Yes/No	Quantity of Water Added per Bag of Cement (Litre)	Height of Specimen After Removal of Mould (mm)	Slump (mm)	Acceptability of Result or Action Taken	Sign of Site Engineer With Date	Sign. of Contractor With Date	Remarks
1	2	3	4	5	6	7	8	9	10	11

# SAMPLE REGISTER

Material & Identification Mark	No. of Samples Collected	Sl. No. of Sample	Place From Where Sample Collected	Qty. of Work/Lot Represented By Each Sample	Test	Field / Lab	Letter No. & Date By Which Sample Sent For Testing	Signature of Official Drawing Sample	Signature of the Contractor	Reference for the Results Received	Remarks
1	2	3	4	5	6	7	8	9	10	11	12

# **REGISTER FOR PARTICLE SIZE DISTRIBUTION FOR COARSE AGGREGATE & FINE AGGREGATE**

SL	Date	Weight of Sample (Gram)	Size of Sieves	Weight Retained on Each Sieve	%Age of Weight Retained	Cumulative %Age of Weight Retained	%Age of Weight Passing	Specified %age of Weight Passing	Sign. of Contractor With Date	Sign. of Site Engineer With Date	Remarks / Action Taken
1	2	3	4	5	6	7	8	9	10	11	12

<u>Note</u> : Size of Sieve should be as per CPWD Manual / BIS Specifications

**APPENDIX T-X** 

# PHYSICAL WEIGHMENT REGISTER

# Tor Steel Bars / Truss Members / Other Misc. Items

SL	Date	Description of Sample	Actual Weight per Unit	Theoretical Weight per Unit	Actual Thickness (Outer Dia.)	Theoretical Thickness (Outer Dia.)	Remarks Accepted / Rejected	Initials of Site Engineer	Contractor Signature
1	2	3	4	5	6	7	8	9	10

**APPENDIX T-XI** 

# **CUBE TEST**

					7 Day	s' Test Res	sult		28 Days	s' Test Re	sult	gth	d By	: the	ĩth	ر م
SL	Date of Collection	Grade of Mix	Mark of Specification	Date of Testing	Load in KN	Compressive Strength (KN/mm <sup>2</sup> )	Average Compressive Strength (KN/mm <sup>2</sup> )	Date of Testing	Load in KN	Compressive Strength (KN/mm <sup>2</sup> )	Average Compressive Strength (KN/mm <sup>2</sup> )	Required Specified Strength	Approx. Qty. Represented By Specimen	Item of Work from Where the Sample is Collected	Sign. of Site Engineer With Date	Contractor's / Contractor' Rep. Sign. With Date
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

#### **APPENDIX T-XII**

# Density Test by Core Cutter Method

# MDD As Per Lab. Test W5 \_\_\_\_\_

SL	Location (C.H.) / Area Represented by the Test	Core Cutter Nos.	Weight of Core Cutter + Weight of Soil (gram) (W1)	Weight of Empty Core cutter (gram) (W2)	Weight of Wet Soil (gram) W= W1-W2	Volume of Core Cutter (in CC) V	Bulk Density (gram/cc) W3= W/V	Moisture Content of compaction layers (M)	Dry Density gram/cc W4 = W3/ (1+M)	Degree of compaction W4/W5	Acceptability Limit	Sign. of Site Engineer with Date	Contractor / Contractor's Representative Signature with Name & Date
1	2	3	4	5	6	7	8	9	10	11	12	13	14

#### **APPENDIX T-XIII**

# TEST FOR THICKNESS AND DENSITY OF THE COMPACTED LAYER

(BY SAND REPLACEMENT METHOD)

# For Asphalt Concrete / Bitumen Macadam / CC Pavement

Lab Test Density in gm/CC \_\_\_\_\_

SL	Date of Test	Qty. Represented by the Test	Location of Holes	Individual (mm)	Average (mm)	G ≫ Weight of Materials Removed from the Carpet Hole	Search Sand taken in Cylinder	B K Weight of Sand Filling in Cone of Cylinder	B & Weight of Sand Remaining in Cylinder	a Predetermined Bulk Density O of Sand	$\frac{M}{D0} = \frac{A^*d^*}{M} W^{-}(W1+W2)$	Remarks / Acceptability	Sign. of Site Engineer	Contractor / Contractor's Representative Signature with Name & Date	Action Taken
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

#### **APPENDIX T-XIV**

# DENSITY TEST REGISTER FOR SOIL - BY SAND REPLACEMENT METHOD

Wt. of Standard Sand in gram/cc (W6) = \_\_\_\_\_

Unit Lab Test MDD in gram/cc (W10) = \_\_\_\_\_

		1		SL
	2	2		Date of Test
	J	3	Qty. I	Represented by the Test
 	т 	4		Location of Holes
	5	5	Individual	
	0	6	Average	
	/	7	(W) gm	Wt. of Material from the Hole
	Ο	8	(Y)	Moisture Content %age
	כ	9	(W1)	Initial Weight of Sand Taken in the Cylinder before Filling in Hole in gm
	10	10	(W2)	Wt. of Sand after Filling in hole in gm
	11	11	(W3) = W1-W2	Wt. of Sand in Hole & Cone (gm)
 	12	12	(W4)	Wt. of Sand in Cone (gm)
	12	13	W5 = (W3-W4)	Wt. of Sand in Hole (gm)
	14	14	(W7) = W5/W6	Volume of Hole in CC
	13	15	(W8) = W/W7	Bulk Density in gm/CC
 	10	16	(W9) = W8/Y	Dry Density in gm/CC
 	1/	17	W9/W10 × 100	Degree of Compaction
	10	18	W9/W10 × 100	Remarks / Acceptability
	19	19	Sign. c	Sign. of Site Engineer with Date
	20	20	Contractor' Signat	actor's / Contractor's Representative Signature with Name & of Date
 	21	21		Action Taken

### **APPENDIX T-XV**

# TEST OF THE BRICK / BRICK TILES FOR COMPRESSIVE STRENGTH

SL	Date of Collection of Sample	Date of Testing	Wt. (in Kg)	No. of Specimen	Size in cm/Area in cm2	Compressive Strength Obtained for Individual Bricks in Kg. per cm2	Average Strength in Kg/cm <sup>2</sup>	Specified Compressive Strength in Kg/cm <sup>2</sup>	Acceptability	Sign. of Site Engineer with Date	Contractor's / Contractor's Representative Signature with Name & Date	Action Taken / Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13

**APPENDIX T-XVI** 

# **ROAD ROLLER REGISTER**

SL	Date	Per	iod	Hours	Description of	Qty. of	Theoretical Qty. /	Signature of	Signature of	Remarks
		From	То		Item Rolled	Area Rolled	Area to be Rolled	Site Engineer	Contractor	
1	2	3	4	5	6	7	8	9	10	11

#### **APPENDIX T-XVII**

# **REGISTER FOR DISMANTLED MATERIAL**

Name of Work \_\_\_\_\_

Name of Division \_\_\_\_\_

SL	Date of Receipt	Ref. to No. & Page of MB	Full Particulars of Material giving Size etc. if any	Opening Balance	Qty. Recd.	Total	Ref. to its Disposal Whether by Write off Sale of Transfer to Other Works	Qty. Issued or Disposed off	Closing Balance	Dated Initial of the Site Engineer	Date of Verification of Balance by Whom Verified	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13

#### **APPENDIX T-XVIII**

# **REGISTER FOR BULKING OF SAND**

SL	Date Of Testing	Particulars of Work Represented by Sample	Qty. of Lot/Qty. of Material	Height of Dry Sand (X)	Height of Sand after Mixing Water (Y)	Bulking of Sand (X/Y-1)x100	Action Taken for Bulkage	Signature of Site Engineer	Signature of Contractor	Remarks
1	2	3	4	5	6	7	8	9	10	11

#### **APPENDIX T-XIX**

DILL PROFURMA	BILL	PRO	FORMA
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{On Letter Head Of Contractor}

Name of Work

Date of Start

Agreement	No.
-----------	-----

Due Date of Completion

Date of Preparation of Bill

Details of Service Provider	Details of Service Receiver		
Name	Name		
Address	Address		
City	City		
State	State		
State Code	State Code		
GSTIN	GSTIN (if Registered)		

Invoice Serial No HSN
-----------------------

Date of Invoice \_\_\_\_\_

Description of Services

SL	Item No.	Description of Items	Unit	Qty. as per Agt.	Rate as per Agt.	Qty. as per Pre. Bill	Qty. as per this Bill	Cumulative Qty.	Amt. as per Previous Bill	Amt. as per this Bill	Cumulative Amount
1.											
2.											
3.											
4.											
							Tot	al			
							Grand	Total			
								Total Taxab	ole Value		
								Tax	Rate		
То	tal Invo	oice Value (ir	n figur	es)				CGST	%		

Total Invoice Value (in words)

Amount of Tax Subject to reverse Charge : Nil

### Signature

SGST

IGST\*

Total Invoice Amount

Name of the Signatory
Designation / Status

\_\_%

%

# SECTION – X (Field Quality Plan) (LIST & PROFORMA OF MANDATORY TESTS)

# LIST OF MANDATORY TESTS

SL	Description of Material	Test	Ref. of IS Code/Specs for Testing	Field / Laboratory Test	Frequency of Testing
1.	<b>Cement</b> (Approved Brand)	Physical & Chemical Properties	IS : 4031	Lab	Initial Test-01 test for each brand of cement. Subsequently, 01 test for 200 MT or part thereof for each brand. Cement should be of approved brand and each lot should be accompanied by manufacturer's test certificates
2.	Reinforcement Steel (Approved Brand)	Physical & Chemical Properties	IS :1786	Lab	Initial Test-01 test for each brand and each dia of reinforcement steel , Subsequently - One test for every 25/35/45 MT or part thereof (As specified in Special condition of Contract Para 6.7) Reinforcement Steel should be of approved brand and each lot should be accompanied by manufacturer's test certificates
3.	Water	PH Value, Chlorides, Sulphates, Alkalinity Test, Acidity Test, Suspended Matter, Organic Matter and Inorganic Matter	IS:3025	Lab	Initial Test- Source approval at commencement of work and Subsequently- every six months or change of source.
4.	Coarse	Gradation	IS 2386 - I	Field / Lab	Minimum one test for every
	Aggregate - Building Works	Deleterious Material	IS 2386 - II	Field / Lab	50 cum or part thereof.
		Specific Gravity	IS 2386 - III	Field / Lab	
		Crushing Value	IS 2386 - IV	Field / Lab	
		Impact Value	IS 2386 - IV	Field / Lab	
		10% Fine Value	IS 2386 - IV	Field / Lab	
5.	Fine Aggregate - Building Works	Organic Impurities	Appendix 'A' of Chapter 3, CPWD Specifications	Field	Minimum one test for every 50 cum or part thereof.

SL	Description of Material	Test	Ref. of IS Code/Specs for Testing	Field / Laboratory Test	Frequency of Testing
		Silt Content	Appendix 'C' of Chapter 3, CPWD Specifications	Field	
		Bulking of Sand	Appendix 'D' of Chapter 3, CPWD Specifications	Field	
		Gradation	Appendix 'B' of Chapter 3, CPWD Specifications	Field / Lab	
6.	Coarse	Gradation	IS 2386 - I	Field / Lab	One test for everyday's work
	Aggregate - Road, Pavement Works	Flakiness and Elongation Index	IS 2386 - I	Field / Lab	Once for each source of supply and subsequently on monthly basis
		Deleterious Material	IS 2386 - II	Lab	Once for each source of supply and subsequently on monthly basis
		Water Absorption	IS 2386 - III	Lab	Once for each source of supply and subsequently on monthly basis
		Los Angeles Abrasion Value/Aggregate Impact Value	IS 2386 - IV	Lab	Once for each source of supply and subsequently on monthly basis
		Soundness	IS 2386 - V	Lab	Before approving the aggregates and every month subsequently.
		Alkali aggregate reactivity	IS 2386-VII, IS:456	Lab	Before approving the aggregates and every month subsequently.
7.	Fine	Gradation	IS 2386 - I	Field / Lab	One test for everyday's work.
	Aggregate - Road, Pavement Works	Deleterious material	IS 2386 - II	Lab	Once for each source of supply and subsequently on monthly basis.
		Water Absorption	IS 2386 - III	Lab	Once for each source of supply and subsequently on monthly basis.
		Silt Content	Appendix 'C' of Chapter 3, CPWD Specifications	Field	Once for each source of supply and subsequently on monthly basis.

SL	Description of Material	Test	Ref. of IS Code/Specs for Testing	Field / Laboratory Test	Frequency of Testing
8.	Slump Test - Building Works		Appendix 'D' of Chapter 4, CPWD Specifications	Field	Minimum one test for every 20 cum of concrete or part thereof
9.	Slump Test - Pavement Works		IS 1199	Field	One test per each dumper load at both Batching Plant Site and Paving Site initially when work starts. Subsequently, sampling may be done from alternate dumper.
10.	Cube Test				
(i)	Reinforced Cement Concrete - Building works	7 days and 28 days Compressive Strength	IS 516	Lab	One sample of six cubes for every 50 cum or part thereof
(ii)	Pavement Quality Concrete (PQC) - Pavement Work	Compressive Strength, Flexure Strength	IS 516	Lab	2 cube set samples and 2 beam set samples per 150 cum or part thereof for each day production.
11.	Earthwork				
	Control Test on Borrow Pits	Gradation	IS 2720 -IV	Lab	One or two tests per 8000 cum
		Plasticity	IS: 2720-V	Lab	
		Proctor Test	IS 2720- VIII	Lab	
		Maximum Dry Density / OMC	IS 2720-VIII	Lab	
		Deleterious Content		Lab	As and when required by Engineer
		Moisture Content	IS 2720-II	Lab	250 cum
	Embankment under (OMC	Field Density	IS 2720- XXVIII		250 cum
	Conditions)	Moisture Content	IS 2720-II		250 cum
12.	Granular Sub- Base	Gradation	IS 2386-I	Field / Lab	Minimum 1 test per source and additional test after every 1000 cum
		Water Absorption	IS 2386-III	Lab	Minimum 1 test per source and additional test as required by Engineer

SL	Description of Material	Test	Ref. of IS Code/Specs for Testing	Field / Laboratory Test	Frequency of Testing
		Wet Aggregate Impact Value test (if WA > 2%)	IS 5640	Lab	As required by Engineer
		Aggregate Impact Value	IS 2386-IV	Lab	Minimum 1 test per source and additional test after every 2000 cum
		Atterberg's Limit	IS 2720-V	Lab	Minimum 1 test per source and additional test after every 1000 cum
		Maximum Dry Density / OMC	IS 2720-VIII	Lab	Minimum 1 test per source and additional test as required by Engineer
		Moisture Content prior to compaction	IS 2720-II	Field	Minimum 1 test every 400 cum
		Field Density	IS 2720- XXVIII	Field	one test per 2000 Sqm or part thereof
		Deleterious Material	IS 2720- XXVII	Lab	Minimum 1 test per source and additional test as required by Engineer
		CBR	IS 2720-XVI	Lab	Minimum 1 test per source and additional test as required by Engineer
13.	Water Bound Macadam	Gradation	IS 2386-I	Field / Lab	Minimum 1 test per source and additional test after every 500 cum
		Aggregate Value or Aggregate Impact Value	IS 2386-IV or IS5640	Lab	Minimum 1 test per source and additional test after every 500 cum
		Combined Flakiness	IS 2386-I	Lab	Minimum 1 test per source and additional test after every 500 cum
		Los Angles	IS 2386-IV	Lab	Minimum 1 test per source and additional test after every 500 cum or part thereof
14.	Wet Mix Macadam	Gradation	IS 2386-I	Field / Lab	Minimum 1 test per source and additional test after every 500 cum
		Water Absorption	IS 2386-III	Lab	Minimum 1 test per source and additional test as required by Engineer

SL	Description of Material	Test	Ref. of IS Code/Specs for Testing	Field / Laboratory Test	Frequency of Testing
		Soundness (if WA > 2%)	IS 2386-V	Lab	As required by Engineer
		Atterberg's Limit of Portion of Aggregate Passing 425 micron Sieve	IS 2720-V	Lab	Minimum 1 test per source and additional test after every 500 cum or part thereof
		Aggregate Impact Value	IS 2386-IV or IS 5640	Lab	Minimum 1 test per source and additional test after every 500 cum
		Maximum Dry Density / OMC	IS 2720-VIII	Lab	Minimum 1 test per source and additional test as required by Engineer
		Combined Flakiness and Elongation Indices	IS 2386-I	Lab	Minimum 1 test per source and additional test after every 500 cum
		Moisture Content	IS 2720-II	Field	Minimum 3 tests per day
		Field Density	IS 2720- XXVIII	Field	One set of three tests per 2000 sqm or part thereof
15.	Bitumen	As prescribed in IS 73	As prescribed in IS 73	Lab	As required by the Engineer- in-charge
16.	Dense Bituminous	Quality of Binder	IS 73	Lab	As required
	Macadam / Bituminous Concrete	Los Angles Abrasion Value / Aggregate Impact Value	IS 2386-IV	Lab	100 cum
		Stripping Value	IS 6241	Lab	100 cum
		Water Absorption	IS 2386-III	Lab	100 cum
		Flakiness Index	IS 2386-I	Lab	One test for 100 cum.
		Sieve Analysis for Filler	IS 2386-I	Lab	One test for each consignment subject to minimum one test per 5 cum
		Mix Grading	IS 2386-I	Lab	One set of test on individual constituent and mixed aggregates from dryer of each 100 tonnes of mixed subject to a minimum of two sets per plant per day

SL	Description of Material	Test	Ref. of IS Code/Specs for Testing	Field / Laboratory Test	Frequency of Testing
		Stability of Mix	ASTM D- 1559	Lab	Three Marshal Specimen per 100 tonnes of mix, subject to a minimum of two sets being tested per plant per day
		Binder Content		Field	Minimum 2 tests per day
		Thickness, Density of Compacted Layer	Appendix 'B' of CPWD Specification	Field	One test of 3 samples per 500 sqm
17.	Brickwork /	Dimension	Appendix A,	Lab	Minimum one test for ever
	Brick Tiles / Sewer Brick / Burnt Clay	Compressive Strength	B, C & D of Chapter 6 of CPWD	Lab	50000 bricks or part thereof
	Perforated Building	Water Absorption	Specifications	Lab	
	Bricks	Efflorescence		Lab	
18.	18. Stone Work	Water Absorption	IS 1124	Lab	Minimum one test for every 200 sqm / 100 cum or part
	Transverse Strength	IS 1121 - II		thereof	
		Resistance to Wear	IS 1706	-	
		Durability	IS 1126		
19.	Marble	Moisture Absorption	IS 1124	Lab	Minimum one test for every 100 sqm or part thereof
		Hardness Test	Mho's Scale		
		Specific Gravity	IS 1122		
20.	Granite	Moisture	IS 1124	Lab	Minimum one test for every
		Specific Gravity	IS 1122		100 sqm or part thereof
21.	Structural	Tensile Strength	IS 1599	Lab	Minimum one test for every
	<b>Steel</b> (other than PEB)	Bend Test			20 tonnes or part thereof per source and also manufacturer's test certificates for each consignment
22.	Steel Tubular	Tensile Test	IS 1608	Lab	Minimum one test for every 8
	Pipes	Bend Test	IS 2329	-	tonne or part thereof per source and also manufacturer's test certificates for each consignment
		Flattening Test	IS 2328		

SL	Description of Material	Test	Ref. of IS Code/Specs for Testing	Field / Laboratory Test	Frequency of Testing
(i)	M-40/50 Grade Pre-Cast Concrete Paving Blocks	Compressive Strength	As per IS Code 15658	Field / Lab	Minimum one test for every 50000 bricks or part thereof
		Water absorption	As per IS Code 15658	Field / Lab	
		Dimensions	As per IS Code 15658	Field / Lab	
(ii)	Sand for Bedding Layer	Percentage of Deleterious material	IS 2386	Lab	Minimum one test for every 50 cum or part thereof
		Particle Size Distribution	As per Technical specification	Field / Lab	
		Silt Content	As per Appendix 'C' of Chapter 3 of CPWD Specifications	Field	
		Moisture Content	IS 2720	Field	
(iii)	Sand for Joint Filling	Particle Size Distribution	As per Technical Specification	Field / Lab	Minimum one test for every 50 cum or part thereof.

<u>Note</u> : For items not covered above may be dealt with as per the Technical Specifications in the contract / mandatory tests will be carried out as per CPWD's Specifications.

## Quantities of Materials for Areas of Surfacing to be considered For Working out Minimum Period of Road Roller

SL	Material of Surfacing	Quantity / Area
1.	Consolidation of earth subgrade	1860 Sqm
2.	Consolidation of stones soling 15 cm to 22.5 cm thick	170 Cum
3.	Consolidation of brick soling 10 cm to 20 cm thick	230 Cum
4.	Consolidation of wearing coat of stone ballast 7.5 cm to 11.5 cm thick	30 Cum
5.	Consolidation of wearing coat of brick ballast 10 cm thick	60 Cum
6.	Spreading and consolidation of red bajri 6 mm	1860 Sqm
7.	Painting one coat using stone aggregate 12.5 mm nominal size -	930 Sqm
(a)	@ 1.65 $m^3$ per 100 $m^2$ and paving bitumen A-90 or S-90 @ 2.25 $\mbox{Kg}/m^2$ or	
(b)	$@~1.50~m^3$ per 100 $m^2$ and bitumen emulsion or Road tar $@~2.25~\text{Kg}/m^2$	
8.	Painting two coats using -	
(a)	For first coat, stone aggregate 12.5 mm nominal size :	600 Sqm
(i)	@ 1.50 $m^3$ per 100 $m^2$ with paving bitumen A-90 or S-90 @ 2 Kg/m^2 or	
(ii)	$(m=1.35\ m^3\ per\ 100\ m^2\ with\ bitumen\ emulsion\ (m=2\ Kg/m^2)$ or	
(iii)	@ 1.25 m <sup>3</sup> per 100 m <sup>2</sup> with road tar @ 2.25 Kg/m <sup>2</sup>	
(b)	For $2^{nd}$ Coat, stone aggregate 10mm nominal size 0.9 Cum per 100 Sqm with -	600 Sqm
(i)	1 Kg of paving bitumen A-90 or S-90 or bitumen emulsion per Sqm $$ or $$	
(ii)	1.25 Kg of road tar per Sqm	
9.	Re-painting with stone aggregate 10mm nominal size 0.9 Cum per 100 Sqm with -	1670 Sqm
(a)	1 Kg of paving bitumen A-90 or S-90 per Sqm or	
(b)	1.25 Kg of Bitumen emulsion per Sqm	
10.	2 cm premix carpet surfacing using 2.4 $m^3$ of stone aggregate 10 mm nominal size per 100 $m^2$ and binder including tack coat, the binder being hot cut back bitumen or bitumen emulsion specified quantities	930 Sqm
11.	2.5 cm. premix carpet surfacing using 3 $m^3$ of stone aggregate 10 mm nominal size per 100 $m^2$ and binder including tack coat, the binder being hot cut back Bitumen or bitumen emulsion in specified quantities	930 Sqm

SL	Material of Surfacing	Quantity / Area
12.	4 cm thick bitumen concrete surfacing using stone aggregate 3.8 Cum (60% 20 mm nominal size and 40% 12.5 mm nominal size) per 100 m <sup>2</sup> and coarse sand 1.9 Cum per 100 m <sup>2</sup> and hot cut back bitumen over a tack coat of hot cut back bitumen	460 Sqm
13.	4 cm thick bitumen concrete surfacing using stone aggregate 4.8 Cum (60% 25 mm nominal size and 40% 20 mm nominal size) per 100 m <sup>2</sup> and coarse sand 2.4 Cum per 100 Sqm and hot cut back bitumen over a tack coat of hot cut back bitumen	370 Sqm
14.	6 cm thick bitumen concrete surfacing using stone aggregate 5.8 Cum (60% 40 mm nominal size and 40% 25mm nominal size) per 100 Sqm and coarse sand 2.9 Cum per 100 Sqm and hot cut back bitumen over a tack coat of hot cut back bitumen	280 Sqm
15.	7.5 cm thick bitumen concrete surfacing using stone aggregate 7.3 Cum (60% 50mm nominal size and 40% 40 mm nominal size) per 100 Sqm and coarse sand 3.65 Cum per 100 Sqm and hot cut back bitumen over a tack coat of hot cut back bitumen	230 Sqm
16.	2.5 cm bitumastic sheet using stone aggregate 1.65 Cum (60% 12.5 mm nominal size, 40% 10 mm nominal size) per 100 Sqm and coarse sand 1.65 Cum per 100 Sqm and hot cut back bitumen over a tack coat of hot cut back bitumen	750 Sqm
17.	4 cm bitumastic sheet, using stone aggregate 2.6 Cum (60% 12.5 mm nominal size 40% 10 mm nominal size) per 100 Sqm, coarse sand 2.5 Cum per 100 Sqm and hot cut back bitumen over a tack coat of hot bitumen	560 Sqm
18.	Laying full grouted surface using stone aggregate 40 mm nominal size 6.1 Cum per 100 Sqm with binder, binding with 20 mm to 12.5 mm nominal size stone grit. 1.83 Cum per 100 Sqm and seal coat of binder and stone grit 10 mm nominal size, 1.07 Cum per 100 Sqm, the binder being hot bitumen or tar as specified	460 Sqm
19.	Laying full grouted surface using stone aggregate 50 mm nominal size 9.14 Cum per 100 sqm grouting with binder, with stone grit 20 mm to 12.5 mm nominal size, 1.83 Cum per 100 Sqm and seal coat of binder and stone grit 10mm nominal size, 1.07 Cum/100 Sqm	370 Sqm
20.	4 cm thick premix macadam surfacing using stone aggregate 25 mm nominal size 4.57 Cum per 100 Sqm and hot bitumen binding with stone aggregate 12.5 mm nominal size 1.52 Cum per 100 Sqm and seal coat of hot bitumen and stone aggregate 10 mm nominal size 1.07 Cum per 100 Sqm	560 Sqm
21.	5 cm thick premix macadam surfacing with stone aggregate 25 mm nominal size, 6.1 Cum per 100 Sqm and hot bitumen binding with stone aggregate 12.5 mm nominal size 1.52 Cum per 100 Sqm and seal coat of hot bitumen and stone aggregate 10mm nominal size 1.07 Cum per 100 Sqm	460 Sqm

	Central Warehou (A Govt. of Indi					
Name of Work : Construction of 12528 MTC Godown along with Internal Roads, Drains and electrical Installation at CW, Gondia-II (Mah.). Schedule of Quantity						
CLNo			Ilmit	Data	Amount (Do )	
SLNo	Description	Qty	Unit	Rate	Amount (Rs.)	
	A: CIVIL DSR ITEMS Earth work in excavation by mechanical means					
	(Hydraulic excavator)/ manual means over areas					
	(exceeding 30 cm in depth, 1.5 m in width as					
	well as 10 sqm on plan) including getting out and					
	disposal of excavated earth lead upto 50 m and					
	lift upto 1.5 m, as directed by Engineer-incharge.					
1	All kinds of soil	75.90	cum	198.86	15,093.47	
-	Earth work in excavation by mechanical means	75.50	cum	150.00	15,055.17	
	(Hydraulic excavator) / manual means in					
	foundation trenches or drains (not exceeding 1.5					
	m in width or 10 sqm on plan), including dressing					
	of sides and ramming of bottoms, lift upto 1.5					
	m, including getting out the excavated soil and					
	disposal of surplus excavated soil as directed,					
2	within a lead of 50 m.					
	a) All kinds of soil.	1,734.24	cum	277.64	4,81,493.5	
	Supplying and filling in plinth with sand under					
	floors, including watering, ramming,					
3	consolidating and dressing complete.	83.66	cum	2,091.83	1,75,004.2	
	Providing and laying in position cement concrete					
	of specified grade excluding the cost of centering					
4	and shuttering - All work up to plinth level :					
	a) 1:1 <sup>1</sup> / <sub>2</sub> :3 (1 Cement: 1 <sup>1</sup> / <sub>2</sub> coarse sand (zone-					
	III) derived from natural sources : 3 graded					
	stone aggregate 20 mm nominal size derived					
	from natural sources)	421.10	cum	7,533.79	31,72,477.0	
	b) 1:4:8 (1 Cement : 4 coarse sand (zone-III)					
	derived from natural sources : 8 graded stone					
	aggregate 40 mm nominal size derived from	056.20		6 122 00		
	natural sources) c) 1:5:10 (1 cement : 5 coarse sand (zone-III)	856.36	cum	6,122.98	52,43,503.93	
	derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from					
	natural sources)	266.92	cum	5,856.42	15,63,203.5	
	Providing and laying cement concrete in	200.52	Cum	5,030.72	13,03,203.3	
	retaining walls, return walls, walls (any					
	thickness) including attached pilasters, columns,					
	piers, abutments, pillars, posts, struts,					
	buttresses, string or lacing courses, parapets,					
	coping, bed blocks, anchor blocks, plain window					
	sills, fillets, sunken floor etc., up to floor five					
	level, excluding the cost of centering, shuttering					
5	and finishing:					
	a) 1:2:4 (1 Cement : 2 coarse sand (zone-III)					
	derived from natural sources : 4 graded stone					
	aggregate 20 mm nominal size derived from					
	natural sources)	7.64	cum	9,074.26	69,356.3	
	Making plinth protection 50mm thick of cement					
6	concrete 1:3:6 (1 cement : 3 coarse sand (zone-	295.86	sqm	659.77	1,95,197.5	

	1				
	III) derived from natural sources : 6 graded				
	stone aggregate 20 mm nominal size derived				
	from natural sources) over 75mm thick bed of				
	dry brick ballast 40 mm nominal size, well				
	rammed and consolidated and grouted with fine				
	sand, including necessary excavation, levelling &				
	dressing & finishing the top smooth.				
	Providing and laying in position specified grade				
	of reinforced cement concrete, excluding the				
	cost of centering, shuttering, finishing and				
7	reinforcement - All work up to plinth level :				
	a) 1:1.5:3 (1 cement : 1.5 coarse sand (zone-				
	III) derived from natural sources : 3 graded				
	stone aggregate 20 mm nominal size de rived				
	from natural sources)	315.55	cum	8,095.71	25,54,592.98
	Reinforced cement concrete work in walls (any				
	thickness), including attached pilasters,				
	buttresses, plinth and string courses, fillets,				
	columns, pillars, piers, abutments, posts and				
	struts etc. above plinth level up to floor five level,				
	excluding cost of centering, shuttering, finishing				
8	and reinforcement :				
0	a) 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III)				
	derived from natu- ral sources : 3 graded stone				
	aggregate 20 mm nominal size derived from				
	natural sources)	158.18	cum	9,858.11	15,59,347.01
	Reinforced cement concrete work in beams,				
	suspended floors, roofs having slope up to 15°				
	landings, balconies, shelves, chajjas, lintels,				
	bands, plain window sills, staircases and spiral				
	stair cases above plinth level up to floor five				
	level, excluding the cost of centering, shuttering,				
	finishing and reinforcement with 1:1.5:3 (1				
	cement : 1.5 coarse sand(zone-III) derived from				
	natural sources : 3 graded stone aggregate 20				
9	mm nominal size derived from natural sources).	88.07	cum	10,375.21	9,13,765.50
	Centering and shuttering including strutting,				
10	propping etc. and removal of form for				
	a) Foundations, footings, bases of columns, etc.				
	for mass concrete	1,619.37	sqm	298.06	4,82,669.66
	b) Walls (any thickness) including attached	_,,-,-,,,			.,=_,000100
	pilasters, butteresses,				
	plinth and string courses etc.	97.06	cam	648.06	62,900.70
		97.00	sqm	00.05	02,900.70
	c) Suspended floors, roofs, landings, balconies				
	and access			741.04	22 256 27
	platform	31.48	sqm	741.94	23,356.27
	d) Lintels, beams, plinth beams, girders,				
	bressumers and cantilevers	813.43	sqm	588.82	4,78,965.03
	e) Columns, Pillars, Piers, Abutments, Posts and				
	Struts	1,476.84	sqm	778.43	11,49,616.56
	f) Small lintels not exceeding 1.5 m clear span,				
	moulding as in cornices, window sills, string				
	courses, bands, copings, bed plates, anchor				
	blocks and the like	23.12	cam	298.06	6,891.15
		۷.۱۲	sqm	290.00	0,091.13
	Providing, hoisting and fixing up to floor five level				
	precast reinforced cement concrete in small				<b>.</b>
11	lintels not exceeding 1.5m clear span up to floor	29.06	cum	13,145.87	3,81,961.14

	five level, including the cost of required				
	centering, shuttering but, excluding the cost of				
	reinforcement with 1:1.5:3 (1 cement : 1.5				
	· ·				
	coarse sand (zone-III) derived from natural				
	sources : 3 graded stone aggregate 20 mm				
	nominal size derived from natural sources).				
	Steel reinforcement for R.C.C. work including				
	straightening, cutting, bending, placing in				
	position and binding all complete upto plinth				
12					
12	level/above plinth level .				
	a) Thermo-Mechanically Treated bars of grade				
	Fe-500D or more.	47,271.95	kg	86.77	41,01,787.05
	Brick work with non modular fly ash bricks				
	conforming to IS:12894, class designation 10				
	average compressive strength in super structure				
13	above plinth level up to floor V level in :				
15					
	a) Cement mortar 1:6 (1 cement : 6 Coarse				
	sand)	1,279.74	cum	7,429.89	95,08,326.36
	Structural steel work in single section, fixed with				
	or without connecting plate, including cutting,				
	hoisting, fixing in position and applying a priming				
14	coat of approved steel primer all complete.	4,526.83	kg	90.06	4,07,686.67
	Steel work in built up tubular (round, square or	.,020100		50100	1,07,7000107
	rectangular hollow tubes etc.) trusses etc.,				
	including cutting, hoisting, fixing in position and				
	applying a priming coat of approved steel primer,				
	including welding and bolted with special shaped				
15	washers etc. complete.				
	a) Electric resistance or induction butt welded				
	tubes	90,373.19	kg	136.33	1,23,20,577.52
	Note : Pipes of YST-310 Grade will be used in	50,0,0115		100.00	1/20/20/07 / 102
	•				
	this work. 50 % payment of item rates as				
	tendered shall be released after satisfactorily				
	fabrication of trusses including all parts and				
	priming coat etc and ready for erection as per				
	instruction of engineer in charge along with				
	submission of Third party Lab Test reports duly				
	supported with manufacturer test reports and				
	Indemnity Bond. Balance payment shall be done				
	after satisfactorily erection of truss as directed				
	by Engineer in charge.				
	Providing and fixing mild steel round holding				
	down bolts with nuts and washer plates				
16	complete.	2,130.30	kg	85.66	1,82,481.50
	Providing & fixing glass panes with putty and				
	glazing clips in steel doors, windows, clerestory				
17	windows, all complete with :				
1/					
	a) 4.0 mm thick class paper			010 12	
	a) 4.0 mm thick glass panes	77.76	sqm	910.12	70,770.93
	Providing gola 75x75 mm in cement concrete				
	1:2:4 (1 cement : 2 coarse sand : 4 stone				
	aggregate 10 mm and down gauge), including				
	finishing with cement mortar 1:3 (1 cement : 3				
18	fine sand) as per standard design :				
	a) In 75x75 mm deep chase				
		רר סרכ	motro	751 05	07 667 71
		328.22	metre	251.85	82,662.21
19	12 mm cement plaster of mix :	1		1	

	a) 1:6 (1 cement: 6 fine sand)	8,977.08	sqm	272.95	24,50,294.91
20	6 mm cement plaster of mix :				
	a) 1:3 (1 cement : 3 fine sand)	836.41	sqm	244.93	2,04,860.92
21	White washing with lime to give an even shade :				_/0 ./00010_
	a) New work (three or more coats)	5,353.38	sqm	31.41	1,68,149.78
	Finishing walls with 100% Premium acrylic emulsion paint having VOC less than 50 gm/litre				
	and UV resistance as per IS 15489:2004, Alkali				
	& fungal resistance, dirt resistance exterior paint				
22	of required shade (Company Depot Tinted) with silicon additives.				
	a) New work (Two or more coats applied @ 1.43				
	litre/ 10 sqm. Over and including priming coat of				
	exterior primer applied @ 0.90 litre/10 sqm.	4,160.11	sqm	149.49	6,21,894.22
	Painting with synthetic enamel paint of approved				
23	brand and manufacture to give an even shade :				
	a) Two or more coats on new work	3,534.78	sqm	127.23	4,49,730.34
	Preparation and consolidation of sub grade with	•	•		, ,
	power road roller of 8 to 12 tonne capacity after				
	excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating				
	with road roller including making good the				
	undulations etc. and re-rolling the sub grade and				
	disposal of surplus earthwith lead upto 50				
24	metres.	4,552.45	sqm	174.71	7,95,358.02
	Extra for compaction of earth work in embankment under optimum moisture				
	conditions to give at least 95% of the maximum				
25	dry density (proctor density).	5,964.15	cum	19.89	1,18,626.95
	Providing and filling in position rubberized				
	bitumen hot sealing compound for sealing of				
	expansion joints in roads / pavements all complete as per direction of the Engineer-in-				
26	Charge.				
			per		
			cm		
			depth per		
			cm		
			width		
			per		
	a) Using grade 'A' sealing compound conforming to IS: 1834.	3,021.78	metre length	7.26	21,938.12
	Providing, laying, spreading and compacting	,			
	graded stone aggregate (size range 53 mm to				
	0.075 mm ) to wet mix macadam (WMM) specification including premixing the material				
	with water at OMC in for all leads & lifts, laying				
	in uniform layers with mechanical paverfinisher				
	in sub- base / base course on well prepared				
27	surface and compacting with vibratory roller of 8	1 700 00			46 22 000 20
27	to 10 tonne capacity to achievethe desired	1,706.96	cum	2,713.65	46,32,090.38

	density, complete as per specifications and				
	directions of Engineer-in-Charge.				
	B: CIVIL MR ITEMS				
	Filling available excavated earth (excluding rock)				
	in trenches, plinth, sides of foundations etc. in				
	layers not exceeding 20cm in depth,				
	consolidating each deposited layer by ramming				
	and watering, in all lead and lift within CWC				
28	Campus.	825.04	cum	157.90	1,30,273.43
	Brick work with non modular fly ash bricks				
	conforming to IS:12894, class designation 10				
	average compressive strength in foundation and				
29	plinth in:				
	a) Cement mortar 1:6 (1 cement : 6 coarse sand)	920.07	cum	6,304.68	58,00,750.42
	Providing and fixing colour coated galvalume				
	profile sheets (Make- TATA/JSW) with the				
	depth of 30 mm and pitch of corrugation 200 mm				
	(Colour and shape of profile as approved by the				
	Engineer-in-charge), 0.60 mm(TCT) total coated				
	thickness( tolerance as per relevant IS code),				
	material yield strength 550 MPa, galvalume AZ-				
	150 GSM (both side inclusive) with regular				
	modified polyester paint and coating of 20-25				
	micron RMP on exposed surface including primer				
	and 7-10 micron epoxy coating on unexposed				
	surface including primer. The sheet should be				
	supplied in single length as shown in drawing or				
	as desired by engineer in charge and shall be				
	fixed using stainless steel Hex cap headed self				
	drilling/ tapping stainless steel screws M6, 50				
	mm long with 3 mm thick EPDM seal and				
	Stainless steel stitching screw of size 19X2.5 mm				
	excluding the cost of purlins, rafters and trusses				
	and including cutting to size and shape wherever				
	required. All screw should be sealed with silicon				
	sealant.				
	Note: 50 % payment of item rates as tendered				
	shall be released after satisfactorily supply and				
	stacking of sheets in CW campus as per				
	instruction of engineer in charge along with				
	submission of Third party Lab Test reports duly				
	supported with manufacturer test reports and				
	Indemnity Bond. Balance payment shall be done				
	after satisfactorily installation of roofing as				
30	directed by Engineer in charge	6,801.74	sqm	806.80	54,87,643.03
	Providing and fixing colour coated galvalume				
	sheets roofing accessories (Make-				
	TATA/JSW), 0.60 mm total coated thickness				
	(TCT), material yield strength 550 MPa,				
	galvalume AZ-150 GSM (both side inclusive) with				
	regular modified polester paint and coating of				
	20-25 micron rmp on expose surface including				
	primer and 7-10 micron epoxy coating on				
	unexposed surface including primer using				
	stainless steel self drilling/ tapping screws of				
31	size 6x50 mm with 3 mm thick EPDM seal and	252.02	RM	592.70	1,49,372.25
		252.02	INF1	552.70	1, 19, 37 2.23

	· · · · · · · · · · · · · · · · · · ·				
	Stainless steel plain washer complete :				
	Matching Profile ridge (500 - 600mm).				
	Providing and fixing colour coated galvalume				
	sheets roofing accessories (Make-TATA/				
	<b>JSW),</b> 0.60 mm total coated thickness (TCT),				
	material yield strength 550 MPa, galvalume AZ-				
	150 GSM (both side inclusive) with regular				
	modified polester paint and coating of 20-25				
	micron rmp on expose surface including primer				
	and 7-10 micron epoxy coating on unexposed				
	surface including primer using stainless steel				
	self drilling/ tapping screws of size 6x50 mm with				
	EPDM seal and Stainless steel plain washer				
32	complete : Flashing/ Apron (Upto 600mm).	193.60	RM	541.45	1,04,824.72
	Providing and spreading non-metallic floor	195.00		5 11 15	1/0 1/02 11/2
	hardener minimum @ 4.5kg/sqm in floor				
	concrete (as per manufactures specifications and				
	approved by Engineer-in-charge). Nothing extra				
	shall be payable if manufacturer specifies extra				
33	quantity.	5,614.66	SQM	77.60	4,35,697.86
33		5,014.00	SQIM	//.00	4,35,097.00
	Providing and fixing channels for preparing				
	panels of required size and then dewatering of				
	the concrete with vaccum dewatering machine				
	finishing with mechanical trowel with trimix				
	matching (thickness of flooring 75 to 150 mm,				
	along with cutting groove joints at appropriate				
	spacing as per direction of engineer in charge				
	(concrete and steel to be paid separately as per				
34	relevent item)	421.10	cum	564.41	2,37,672.90
	Extra for providing and fixing Aluminium wind				
35	ties of 40 x 6 mm section.	1,320.46	RM	213.65	2,82,116.28
	Manufacturing/ Providing and laying precast				
	inter locking cement concrete paver blocks of				
	grade M-40 and size 200mm X 100mm X 100 mm				
	including providing and laying 50 to 80mm (avg				
	65 mm) thick layer of bedding sand, joint filling				
	with fine sand, compacting with plate compactor				
	and final compaction with vibratory roller etc. as				
	per specification. The item includes all cost of				
	paver blocks i.e., cost of ingredients of paver				
	blocks such as sand, aggregate, cement of high				
	strength OPC cement as per IS 8112-2013, cost				
	of bedding as well as sand filled in joints. The				
	rate shall also include all lead, lifts, materials,				
	machine tools, plants, labour, equipment &				
	testing etc. complete in all respects as directed				
36	by Enineer - in - Charge	4,552.45	sqm	1,251.64	56,98,024.76
	Steel work in single section for door frame, made	1,552.75	54111	1/231.07	50,50,027.70
	of M.S. angle 75x75x6mm, joints mitred, welded				
	with 8 Nos., 30 cm. long lugs of M.S.				
	Angle40X40x6mm to act as hold fasts, complete"				
	as per drg. No.CWC/PG/380/5 applying priming				
	coat of approved steel primer, fixing in Cement				
	Concrete Block of mix 1:2:4 (1 cement : 2 coarse				
	sand : 4 graded stibe aggregate 20mm nominal				
37	size) of 30x30x23 cm. etc.	1,613.28	kg	116.65	1,88,189.11

a) 3X1.5 sqmm	310.00	meter	52.79	16,364.90
PVC insulated copper conductor, single core cable in the existing recessed PVC conduit as required.				
case of recessed conduit as required.	2,072.00	metre	87.98	1,82,294.56
conduit along with accessories in surface/reces including painting in case of surface coduit, or				
steel primer.Using M.S. angels 40x40x6 mm for diagonal braces	107.87	sqm	4,746.15	5,11,957.71
as per drawing No./ CWC/PG/380/5 complete,				
diagonal braces, all necessary fittings like bush				
door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and				
Note- The fixing of glass panes and cement concrete block shall be paid separately under relevant items Providing and fixing 1mm thick M.S. sheet steel	4,612.42	kg	119.75	5,52,337.48
coat of approved steel primer, all complete as per the direction of Engineer-In-charge.				
fixed with holdfast including fixing of necessary butt hinges and screws and applying a priming				
welded by angle iron or MS flat pieces and/or GI				
as per CWC Drawing No. CWC/PG/380/5(For V4)				
Providing and fixing Angle iron frames for doors, windows and ventilators of mild steel Angle				
complete	5,206.15	cum	328.60	17,10,740.94
lead and lift also including ramming and watering of the earth in layers not exceeding 20 cm in				
Excavating, supplying and filling of local earth	_,,			
on the outer side of V4 openings with required	1,213 77	ka	171 04	2,07,602.74
instructions of Engineer- in- charge. The whole				
and priming coat of approved steel primer				
of M.S. Cleats of size 50x50x4 mm size with				
25x4 mm M.S. Flat expanded metal to be fixed with 19x3mm M.S. Beading tack welded, 4 nos.				
than 4.078 kg/sqm and frame made of 25x4 mm M.S. flat sub divided into three equal panels with				
with expanded metal 20x60 mm strands 3.25 mm wide and 1.6 mm thick, weighing not less				
	than 4.078 kg/sqm and frame made of 25x4 mm M.S. flat sub divided into three equal panels with 25x4 mm M.S. Flat expanded metal to be fixed with 19x3mm M.S. Beading tack welded, 4 nos. of M.S. Cleats of size 50x50x4 mm size with holes for 12 mm dia. bolt i/c and manufacture and priming coat of approved steel primer complete as per drg. No.CWC/PG/385 and as per instructions of Engineer- in- charge. The whole frame with expanded metal mesh is to be fixed on the outer side of V4 openings with required size of fasteners 10x80 mm size Excavating, supplying and filling of local earth (including royalty) by mechanical transport for all lead and lift also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete Providing and fixing Angle iron frames for doors, windows and ventilators of mild steel Angle sections of required size for V4 and V6 complete as per CWC Drawing No. CWC/PG/380/5(For V4) and CWC/PG/414 (For V6), joints mitred and welded by angle iron or MS flat pieces and/or GI Fabric of required size to the MS angle frames fixed with holdfast including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer, all complete as per the direction of Engineer-In-charge. Note- The fixing of glass panes and cement concrete block shall be paid separately under relevant items Providing and fixing 1mm thick M.S. sheet steel door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners by using MS angles 40x40x6 mm for diagonal braces, all necessary fittings like bush hinges, handles, tower bolts, sliding door bolts as per drawing No./ CWC/PG/380/5 complete, including applying a priming coat of approved steel primer.Using M.S. angels 40x40x6 mm for diagonal braces of recessed conduit as required. Supplying and faxing following sizes of FRLS PVC insulated copper conductor,single core cable in the existing recessed PVC conduit as required.	than 4.078 kg/sqm and frame made of 25x4 mm M.S. flat sub divided into three equal panels with 25x4 mm M.S. Flat expanded metal to be fixed with 19x3mm M.S. Beading tack welded, 4 nos. of M.S. Cleats of size 50x50x4 mm size with holes for 12 mm dia. bolt i/c and manufacture and priming coat of approved steel primer complete as per drg. No.CWC/PG/385 and as per instructions of Engineer- in- charge. The whole frame with expanded metal mesh is to be fixed on the outer side of V4 openings with required size of fasteners 10x80 mm size1,213.77Excavating, supplying and filling of local earth (including royalty) by mechanical transport for all lead and lift also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete5,206.15Providing and fixing Angle iron frames for doors, windows and ventilators of mild steel Angle sections of required size for V4 and V6 complete as per CWC Drawing No. CWC/PG/380/5(For V4) and CWC/PG/414 (For V6), joints mitred and welded by angle iron or MS flat pieces and/or GI Fabric of required size to the MS angle frames fixed with holdfast including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer, all complete as per the direction of Engineer-In-charge.Note- The fixing of glass panes and cement corners by using MS angles 40x40x6 mm for diagonal braces, all necessary fittings like bush hinges, handles, tower bolts, sliding door bolts as per drawing No./ CWC/PG/380/5 complete, including applying a priming coat of approved steel primer.Using M.S. angels 40x40x6 mm for diagonal braces, all necessories in surface/reces including applying a reprime complete as per drawing No./ CWC/PG/380/5 complete, including applying a repriming coat of approved stee	than 4.078 kg/sqm and frame made of 25x4 mmM.S. flat sub divided into three equal panels with25x4 mm M.S. Flat expanded metal to be fixedwith 19x3mm M.S. Beading tack welded, 4 nos.of M.S. Cleats of size 50x50x4 mm size withholes for 12 mm dia. boti 1/c and manufactureand priming coat of approved steel primercomplete as per drg. No.CWC/PG/385 and as perinstructions of Engineer- in- charge. The wholeframe with expanded metal mesh is to be fixedon the outer side of V4 openings with requiredsize of fasteners 10x80 mm size12xavating, supplying and filling of local earth(including royalty) by mechanical transport for alllead and lift also including ramming and wateringof the earth in layers not exceeding 20 cm intrenches, plinth, sides of foundation etc.completeProviding and fixing Angle iron frames for doors,windows and ventilators of mild steel Anglesections of required size to the MS angle framesfixed with holdfast including fixing of necessarybuth holgs and screws and applying a primingcoat of approved steel primer, all complete asper the direction of Engineer-In-charge.Note- The fixing of glass panes and cementcorrers block shall be paid separately underrelevant itemsProviding and fixing 1mm thick M.S. sheet steeldoor with frame of 40x40x6 mm angle iron and3 mm M.S. gusset plates at the junctions andcorrers by using MS angles 40x40x6 mm fordiagonal braces, all necessary fittings like bushhinges, handles, tower bo	than 4.078 kg/sgm and frame made of 25x4 mm M.S. flat sub divided into three equal panels with 25x4 mm M.S. Flat expanded metal to be fixed with 19x3mm M.S. Beading tack welded, 4 nos. of M.S. Cleast of size 50x50x4 mm size with holes for 12 mm dia. bolt i/c and manufacture and priming coat of approved steel primer complete as per drg. No. CWC/PG/388 and as per instructions of Engineer- in-charge. The whole frame with expanded metal mesh is to be fixed on the outer side of V4 openings with required size of fasteners 10x80 mm size1,213.77kg171.04Excavating, supplying and filling of local earth (including royalty) by mechanical transport for all lead and lift also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete5,206.15cum328.60Providing and fixing Angle iron frames for doors, windows and ventilators of mild steel Angle sections of required size for V4 and V6 complete as per CWC Drawing No. CWC/PG/380/SfCrv V4) and CWC/PG/414 (For V6), joints mitred and welded by angle iron or MS flat pieces and/or GI Fabric of required size to the MS angle frames fixed with holfdast including fixing or necessary butt hinges and screws and applying a priming coat of approved steel primer, all complete as per the direction of Engineer-In-charge.4,612.42kg119.75Providing and fixing Jangles 40x40x6 mm for diagonal braces, all necessary fittings like bush hinges, handles, tower bolts, sliding door bolts as per drawing No. / CWC/PG/380/5 complete, including applying a priming coat of approved steel primer.Using M.S. angles 40x40x6 mm for diagonal braces. In accessories in surface/reces including applying a priming coat of approved steel primer.Using M.S. angels 40x40x6 mm fo

	b) 4X1.5 sqmm	210.00	meter	65.50	13,755.00
	c) 5X1.5 sqmm	196.00	meter	85.05	16,669.80
	d) 6X1.5 sqmm	243.00	meter	97.76	23,755.68
	e) 7X1.5 sqmm	36.00	meter	118.29	4,258.44
	f) 8X1.5 sqmm	128.00	meter	130.02	16,642.56
	g) 9x1.5 sq.mm	42.00	meter	158.37	6,651.54
	h) 3X2.5 sqmm	258.00	meter	73.32	18,916.56
	i) 6X2.5 sqmm	44.00	meter	138.82	6,108.08
	j) 3X4.0 sqmm	331.00	meter	114.38	37,859.78
	k) 6X4.0 sqmm	274.00	meter	216.04	59,194.96
44	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.				
	a) 50 mm dia nominal bore	30.00	meter	864.53	25,935.90
45	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required	190.00	meter	243.42	46,249.80
45	required. Laying of one number PVC insulated and PVC sheathed / XLPEpower cable of 1.1 kV grade following size in the existing RCC/ HUME/ METAL pipe as required.	190.00	meter	243.42	40,249.00
	a)Upto 35mm	220.00	meter	30.30	6,666.00
47	Laying and fixing of one number of PVC insulated PVC Sheathed / XLPE power cable of 1.1 KV Grade of following sizes on Wall surface as reqd.				
	a) Upto35 sq. mm (clamped with 1mm thick saddle)	50.00	meter	38.13	1,906.50
48	Supplying and making end termination with brass compresion gland and aluminium lugs for following size of PVC insulated and PVC sheated/XLPE aluminium conductor cable of size 1.1 Kv grade as reqd.				
	a)4 x 25 sq.mm.(28mm)	2.00	each	244.39	488.78
	b) 4X16 sqmm (28mm)	4.00	each	244.39	977.56

49	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.	12.00	each	374.41	4,492.92
	Supplying and fixing 3 pin, 5 amp. Ceiling rose on the existing junction box/wooden block				.,
50	including connection etc. as required. Make : Havells or equivalent in approved brand.	176.00	each	63.54	11,183.04
51	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A, "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	6.00	each	1,204.38	7,226.28
52	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/ Isolator)				
	a) 4 way (4 + 12), TPN, MCB, DD	2.00	each	2,999.21	5,998.42
53	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar,din bar, interconnections, powder painted including earthing etc.as required. (But without MCB/RCCB/Isolator)				
	a) 8 way, Double Door	6.00	each	1,720.54	10,323.24
		10.00		2,000,07	26 125 46
54	<ul> <li>b) 12 way, Double door</li> <li>Supplying and fixing 5 A to 32 A rating, 240/415</li> <li>V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.</li> </ul>	18.00	each	2,006.97	36,125.46
	a)Single Pole	240.00	each	194.54	46,689.60
	Supplying and fixing 40 Amps. rating, double pole, 240 V,isolator in the existing MCB DB complete with connections, testing and				
55	commissioning etc. as required. Supplying and fixing 63Amps. rating, four pole,	24.00	each	331.40	7,953.60
56	415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required	2.00	each	820.19	1,640.38
	Providing and fixing M.V danger notice plate of 200mm*150 mm, made of mild steel at least 2mm thick, and vitreous enameled white on both sides, and with inscription in single red color on				
57	front side as required.	8.00	each	220.93	1,767.44

	Earthing with G.I. earth pipe 4.5 meter long, 40				
	mm dia including accessories, and providing				
	masonry enclosure with cover plate				
	having locking arrangement and watering pipe				
58	etc. with charcoal/ coke and salt as required.	4.00	set	5,188.99	20,755.96
	Earthing with G.I. earth plate 600 mm X 600 mm				
	X 6 mm thick including accessories, and				
	providing masonry enclosure with cover plate				
	having locking arrangement and watering pipe of				
	2.7 metre long etc. with charcoal/ coke and salt				
59	as required.	3.00	cot	5,988.65	17 065 05
59	Providing and laying earth connection from earth	5.00	set	5,900.05	17,965.95
	electrode with 6 SWG dia G.I. Wire in 15 mm dia				
	G.I. pipe from earth electrode including				
	connection with G.I. thimble excavation and re-				
60	filling as required.	60.00	metre	183.78	11,026.80
	Providing and laying earth connections from				
	earth electrode with 25 mmx 5mm GI strip in 40				
61	mm dia GI pipe from earth electrode as required.	10.00	meter	472.17	4,721.70
	Providing and fixing 25mmx5mm GI strip on				,· ==·· •
62	surface /recess for loop earthing as required.	5.00	meter	201.38	1,006.90
	Providing and fixing of lightning conductor finial,	5.00		201100	1,000.90
	made of 25 mm dia 300 mm long, G.I. tube,				
	having single prong at top, with 85 mm dia 6 mm				
	thick G.I. base plate including holes etc.			107.00	075 00
63	complete as required.	2.00	each	437.96	875.92
	Providing and fixing G.I. tape 20 mm X 3 mm				
	thick on parapet or surface of wall for lightning				
	conductor complete as required.(For horizontal				
64	run)	20.00	meter	101.67	2,033.40
	Providing and fixing G.I. tape 20 mm X 3 mm				
	thick on parapet or surface of wall for lightning				
	conductor complete as required.(For vertical				
65	run)	20.00	meter	159.35	3,187.00
	Providing and fixing testing joint, made of 20 mm	20100		100100	5/10/100
	X 3 mm thick G.I. strip, 125 mm long, with 4 nos.				
66	of G.I. bolts, nuts, chuck nuts and spring	0.00	on ch	00 71	707 60
66	washers etc. complete as required.	8.00	each	99.71	797.68
	Providing and laying in position cement				
	concrete1:2:4 (1 cement : 2 coarse sand : 4				
	graded stone aggregate 20 mm nominal size) in				
	foundation of pumo/ DG set /cable trench				
67	including form work etc as required:	0.10	Cu.m.	7,379.74	737.97
	D: ELECTRICAL MR ITEMS				
	Supplying and fixing 25 mm flexible metal				
	conduit with PVC covering including connection				
	etc on surface / recessed as per direction of				
68	engineer incharge.	93.00	meter	54.00	5,022.00
00	Supplying of aluminium conductor PVC insulated	95.00	meter	JT.00	5,022.00
	PVC sheathed /XLPE insulated inner sheathed				
	galvanized strip armoured power cable of 1.1 kv				
		1			
	grade confirming to Is 709 Make :- Polycab,			I	
69	grade confirming to Is 709 Make :- Polycab, Havells, Finolex				
69	Havells, Finolex	150.00	meter	334.00	50,100.00
69		150.00	meter	334.00	50,100.00

	Supplying/Installation/Testing/Commissioning of circular LED Wellglass of following rating in godown with excellent thermal management alongwith IP 66 protection,240 volt, prewired complete with all accessories and suitable hanging arrangement upto 1 metre from the support, connection with 1.5 mm FR PVC insulated copper conductor single core cable and earthing etc. as required a) 70 watt LED				
	Wellglass-Make Make- Crompton(LWV12-70- CDL) or eq. in P hillips/ Bajaj/ Hevells/ Wipro/				
70	Hellonix	72.00	each	6,173.00	4,44,456.00
	Supplying/Installation/Testing/Commissioning of 80 watt,240 volt LED flood light with IP 66 Protection with all accories in the godown wall with suitable fixing arrangementt , connection with 1.5 mm FR PVC insulated copper conductor single core cable and earthing etc. as required				
71	Make- Crompton(LCNP-80-CDL) or eq. in Phillips/ Bajaj/Hevells/Wipro/Hellonix	104.00	each	6,942.00	7,21,968.00
	Manufacture, Design, Supplying, Testing, Commissioning of continuously tappered polygonal cross section (5/4/3mm) suitable for wind loading as IS 875 part 3 1987 using special steel plates, conforming to BS-EN10-025 in three section, using Raising and Lowering type of 25 meter height high mast lighting consisting				.,,
72	of all accessories as per enclosed detailed.	1.00	each	4,12,955.00	4,12,955.00
	(i)Head Frame				
	(ii)Double movable lantern carriage (iii) Double drum winch				
	(iv)Stainless steel rope				
	(v)Trailing cable				
	(vi)Foundation Bolts & Nuts				
	(vii)Anchor plate &Template				
	(viii)Lightning finial				
	(ix)LED type single dome aviation obstruction light				
	(x)Junction box				
	(xi) 2 HP /1.5 KW electric Motor, etc				
	Supply, fixing of out door type feeder piller fabricated out of 14 SWG CRCA sheet and finished with two coats of red oxide primer and grey enamel paint. The feeder piller with 32A TPN MCB incomer, single dail time switch 25A TP contactor for the automatic switching of luminaries, power tool control with 2No 9A contactors and raise lower push button,				
	incomming 35 Sqmm and outgoing 16 & 2.5				
73	Sqmm terminals.	1.00	each	25,421.00	25,421.00
	High mast protection; Providing and fixing of 75x75x6mm size of angel of 2.00 mtr length of 12 nos with necessary nut & bolt and making hole with earth work for grouting up to 1.00x0.40x0.40 with 1:2:4 cement,sand, concrete to fix the peripheri of foundation of high most the work the high most the bigh most the set the high most the set the set the high most the set the high most the set the set the high most the set			20.070.00	
74	high mast to protect the high mast to hit the	1.00	each	39,070.00	39,070.00

(Pup)	ees Seven Crores Eighty-Nine Lakh Eight Thou	7,89,08,800.27			
78	per direction of engineer incharge	1.00	each	1,162.00	1,162.00
	Making space including cutting the ground/concreting etc suitable for earthing as				
77	flood light luminaries including all accessories suitable for 25 mtrs high mast light Make Crompton cat log No LSFO-300-CDL/60-M, Bajaj cataloug No.BJFL 300W LED WH WB or equivalent in Bajaj,philips,crompton,K- Light.	8.00	each	20,905.00	1,67,240.0
	Supplying and fixing of ( 300 /340/350 )watt LED			,	,
76	Civil foundation: For high mast: Excavation of the ground/ cutting the hard soil/ cutting the concreting etc for making space free for excavation and filling with concrete using MS steel rod,cement,sand and other essential materials, suitable for 25 mtrs High mast , as per manufacture recommendation.( Including labours, materials and materials handling equipments) Note: Drawing of Foundation of high mast shall be approved by CWC engineer before commencing the high mast.	1.00	each	72,797.00	72,797.0
75	Installation of high mast & feeder pillar on existing foundation including crane & labour.	1.00	each	92,728.00	92,728.0
	container/ trucks etc as per direction of Engineer in charge.				

CHIEF ENGINEER

# **CENTRAL WAREHOUSING CORPORATION**

(A Govt. of India Undertaking)

## PRICE BID FORMAT

## Name of work:- Construction of 12528 MTC Godown along with Internal Roads, Drains and electrical Installation at CW, Gondia-II (Mah.)

### Total Estimated Cost from item No. 1 to 78 = Rs. 7,89,08,800.27

**ABOVE** the rates entered in the Tender Price Schedule cum BOQ.

OR

b) I / We hereby tender our rates as.... % (...... Percent)

**BELOW** the rates entered in the Tender Price Schedule cum BOQ.

NOTE:

- (1) The tenderers should quote their percentage appropriately either at (a) or at (b) as the case may be in Price bid XLS sheet and will submit digitally signed copy on Web Tender portal of CWC as mentioned in NIT/Press notice. Full text of item as given in the price bid XLS sheet shall be valid.
- (2) No price shall be mentioned in above paper or elsewhere in technical bid document. Any mention of prices elsewhere other than at appropriate place in price bid XLS sheet, will be summarily rejected and will not be entertained.
- (3) L1 shall be decided based on price quoted % above /below in price bid only.

#### **CHIEF ENGINEER**

(Tenderer)

## INDICATIVE FORMAT FOR MARKET RATES FOR LABOUR & MATERIALS

SI. No	Details		Rate (excluding GST)	Unit
	MATERIALS		(	
1	Heavy duty CC paver block (100mm thick, M- 40)	Rs.		per sqm
2	Coarse sand (zone-III)	Rs.		per cum
3	Fine sand (zone-IV)	Rs.		per cum
4	Cement OPC/PPC	Rs.		tonne
5	Stone Aggregate (Single size) : 50 mm nominal size	Rs.		per cum
6	Stone Aggregate (Single size) : 40 mm nominal size			per cum
7	Stone Aggregate (Single size) : 25 mm nominal size			per cum
8	Stone Aggregate (Single size) : 20 mm nominal size			per cum
9	Stone Aggregate (Single size) : 10 mm nominal size	Rs.		per cum
10	Crushed stone 2.36 mm to 12.5 mm size	Rs.		per cum
11	Stone chippings/ screenings 4.75 mm nominal size	Rs.		per cum
12	Stone chippings/ screenings 150 micron nominal size	Rs.		per cum
13	High Tensile Structural Steel Fy 350 Mpa	Rs.		per kg
14	Colour Coated Galvalume Profile Sheet 0.60 mm TCT	Rs.		per sqm
15	Twisted steel/ deformed TMT bars Fe-500D	Rs.		per quintal
16	Structural steel such as tees, angles channels and R.S. joists	Rs.		per quintal
17	Common burnt clay F.P.S. (non modular) bricks class designation 7.5/Fly ash bricks (as per BOQ)	Rs.		per 1000 Nos
18	Royalty for Good earth	Rs.		per cum
19	Non-metallic floor hardner i/c carraige	Rs.		per kg
20	MS Pipe-IS-1161	Rs.		per kg
	LABOUR			
1	Blacksmith 1st class/Fitter Grade-I/Mistry/Mason Brick Layer-I	Rs.		per day
2	Mason (brick layer) 2nd class/ Bhisti/ Blacksmith 2 <sup>nd</sup> Class/ Carpenter 2nd Class/Glazier/Skilled Beldar/Mateetc.	Rs.		per day
3	Beldar/ Coolie/ Chowkidar	Rs.		per day
4	Mason (Average)	Rs.		per day
	T&P/MISCELLÁNEOUS			<u> </u>
1	Concrete Mixer 0.25 to 0.40 cum with hooper	Rs.		per day
2	Vibrator(Needle type 40mm)	Rs.		per day
3	Sundries	Rs.		L.S.
4	Wet Mix Plant 60 TPH @ 75 tonne capacity	Rs.		per hour
5	Generator 100 KVA/125 KVA	Rs.		per hour
6	Water Tanker 5 to 6 KL capacity hour	Rs.		per hour
7	Front end loader 1 cum bucket capacity (incl POL)	Rs.		per hour
8	Tipper-5 Cum/10 tonnes	Rs.		per tonne/ km
9	Paver finisher Mechanical 100 TPH	Rs.		per hour
10	Vibratory roller 8 to 10 tonne	Rs.		per hour
11	Diesel Road Roller - 8 to 10 tonne	Rs.		per day
12	Hydraulic Excavator	Rs.		per day
13	Welding by electric plant	Rs.		per cm
14	Hire charges of diesel truck - 9 tonne (without POL)	Rs.		per day

Rates of Major items of work: To be provided by bidder alongwith their price bid