NIT 23/2017-18 Dated: 27.10.2017

S/I/T/C OF 75 KVA DIESEL GENERATOR ALONG WITH AMF PANEL AT REGIONAL OFFICE, HYDERABAD, T.S.

MANDATORY DOCUMENTS /REQUIREMENTS

(Pl refer Check list for online submission of mandatory documents at page 2.)

1	Copy of registration certificate as per eligibility criteria
2.	Copy of experience certificates as per eligibility criteria
3	Copy of audited balance sheet and statement of Profit & Loss for preceding three financial year as stated in eligibility criteria.(in case no statutory obligation to get the accounts audited ,Certificate of practicing charted Accountant is to be enclosed.)
4.	Copy of Solvency certificate as per format Given on page No.156 of general condition of Contract.
5.	Copy of GST registration certificate
6.	Copy of Pan card
7.a	Proof of EMD
7b.	Proof of Cost of Tender
7c.	Proof of Tender processing Fee
8.	Page No. 17, 87,88 of general Condition of Contract duly signed.
9.	Pre-Contract Integrity Pact duly signed (wherever required)
10	Affidavit as per 1.2.3 at Page :10
11.	A) Copy of Partnership deed and GPA(duly signed by all partners) in case tenderer is a partnership firm be enclosed OR
	B) Certificate of Incorporation ,memorandum of Association and Articles of Associations in case tenderer is a Company along with resolution of the Company for Authorising the Director/ authorised Signatory ,to sign the document ; If Authorised director gives an authority to any other person to sign the tender, the copy of Authority letter / power of attorney is also to be enclosed.
12	ANNEXURES- I TO VII AS APPLICABLE DULY FILLED- P. 155 TO 161

Note: All the Above documents must be self - attested and Scanned copy to be uploaded with the tender document under valid digital signature of person authorised to sign the Tender.

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CENTRAL WAREHOUSING CORPORATION

(A Govt. Of India Undertaking)

GENERAL CONDITIONS OF CONTRACT

FOR

CONSTRUCTION / MAINTENANCE WORKS

(ONLINE / OFFLINE TENDER)

CWC GST NUMBER FOR TELANGANA STATE : REGION AL OFFICE, CWC, HYDERABAD: **36AAACC1206D2Z G**

NAME OF THE WORK :- S/I/T/C OF 75 KVA DIESEL GENERATOR ALONG WITH AMF PANEL AT REGIONAL OFFICE, HYDERABAD

OFFICE OF THE
EXECUTIVE ENGINEER
CENTRAL WAREHOUSING CORPORATION
CONSTRUCTION CELL
C HENNAI

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TÜVRheinland CERTIFIED
01 100 1328128 | 01 104 1328128 | 01 113 1328128

CENTRAL WAREHOUSING CORPORATION

(A Govt. of India Undertaking)

NAME OF WORK: S/I/T/C OF 75 KVA DIESEL GENERATOR ALONG WITH AMF PANEL AT REGIONAL OFFICE, HYDERABAD

NIT No .23 /2017 -18 Dated: 27.10.2017

Check list for online submission of mandatory documents.

Sl No.	Type of Document	Submission	
		YES	NO
1.	Whether registration certificate as per eligibility criteria up loaded		
2.	Whether experience certificates as per eligibility criteria up loaded		
3.	Whether Copy of audited balance sheet and statement of Profit & Loss for preceding three financial year s uploaded .(Where the tenderer is not under legal obligation to get his accounts audited, he can submit a Certificate of practicing chart ed Accountant certifying his Annual turn Over and profit after tax for preceding three financial years)		
4.	Whether certificate of Solvency of Rs . 3.41 LAKH (40% of Estimated cost) from a bank as per format uploaded.		
5.	Whether copy of val id GST registration certificate from concerned authority uploaded.		
6.	Whether Copy of Pan card up loaded.		
7a	Whether Proof of EMD uploaded		
7b	Whether Proof of Cost of Tender uploaded		
7c	Whether Proof of Tender processing Fee uploaded.		
8.	Whether Page No. 17 , 87 & 88 of general Condition of Contract signed and uploaded		
9.	Affidavit/Undertaking as per point 1.2.3 of NIT		
10 .	Whether Pre Contract Integrity Pact has been signed and up loaded	Not applicable since EC is below 3. 00 Crore	
11	A) Whether Copy of Partner ship deed and GPA(duly signed by all partners) in case tenderer is a partnership firm uploaded OR		
	B) whether copy of Certificate of Incorporation ,memorandum of Association and Articles of Associations in case tenderer is a Company along with resolution of the Company for Authorising the Director/ authorised Signatory ,to sign the document ; If Authorised director gives an authority to any other person to sign the tender, the copy of Authority letter / power of attorney is also to be uploaded.		

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PERCENTAGE RATE/ITEM RATE TENDER AND CONTRACT

S.No	Index	Page NO.
1.	Guidelines for use of standard form	4
2.	Press Notification & Tender Notice	5-8
3.	Notice Inviting Tender and Tender & Con tract	9-17
4.	Tender Form	
	(i) General Rules & Directions	18 - 23
	(ii) Conditions of contract.	24 - 27
	(iii) Proforma for pre - contract agreement pact.	28 - 33
	(iv) Clauses of Contract	34 - 87
	(v) Schedule of materials to be supplied by the Corpora tion.	88
	(v i) Safety Code.	89 - 94
	(vi i) Model Rules	95 -101
	(vii i) Contractors labour regulations.	102 - 108
	(ix) Performa of registers from Appendix I to XIV	109 - 123
	(x) Performa of Schedules A to F	124 - 129
	(x i) Annexure to Clause 34 (x)	130 - 131
	(xi i) Specification for works	13 2- 135
5.	Additional Conditions of contract	136 - 138
6.	Conditions for issue of materials	139 - 140
7.	Sketch of Cement Godown	141
8.	Proforma for Cement Register	142
9.	Format of Agreement	143
10.	Conditions for cement and steel	144 - 146
11 .	Specification for self - supported arch shaped Galvalume steel sheet roofing.	147 - 152
12.	Information for contractors for on - line participation in the tender.	153 - 1 61
13.	SPECIFICATION FOR GEN SET	162 - 170
1 3	**Detailed Schedule of W ork – Schedule A**	171 - 179

Tender documents Contains pages (1) to (179) for contrac t Conditions including Schedule of Quantities.

Note –

(i) The c o ntractor should sign on page 17 , 8 7 & 88 of the Contract Conditions scan and upload on e -tendering web site.

(ii) Schedule of quantities should be digitally signed for quoting the rates , failing which the tender will be treated as invalid.

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CENTRAL WAREHOUSING CORPORATION

(A Govt. of India Undertaking)

GENERAL GUIDELINES

1. This book of "General Condition s of Contract" is applicable to both **type of tenders i.e . " percentage rate tenders and item rate tenders".** Accordingly, alternative provision for condition No. 4, 10 and 12 of the General Rules and directions are given in this book. The appropriate alter natives will be applicable in specific cases depending on whether this is used for percentage rate tender or item rate tender.

2. The tenderers must furnish full, precise and accurate details in respect of information asked for in appendix I & II attached to the form of tender.

3. Schedules A to F, Special conditions/ specifications can be seen at website www.cewacor.nic.in , www.tenderwizard.com and www.tenderhome.com and can be downloaded from the website www.cewacor.nic.in .

4. All blanks are confined to Notice Inviting Tender and Schedules A to F.

5. Authority issuing Notice INVITING TENDERS shall fill up a ll the blanks with NIT and in Schedule 'B' to 'F' before upload ing on the above -mentioned websites.

6. The intending tenderers will quote their rates on the specified page of SCHEDULE OF QUANTITIES.

7. The proforma for registers and schedules A to F are only for information and guidance.

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CENTRAL WAREHOUSING CORPORATION
(A Govt. of India Undertaking)
Construction Cell
No.4, NORTH AVENUE ,SRINAGAR COLONY, SAIDAPET,
CHENNAI – 600 015
Ph.22301372 ; TeleFax:22354140, Email: eeccchennai@gmail.com

No: 23 / 2017 -18 **DT. 27.10.2017**

PRESS NOTICE INVITING E -TENDER

CWC invites Online / Offline tenders from the approved contrac tors of appropriate class for the WORK OF: **S/I/T/C OF 75 KVA DIESEL GENERATOR ALONG WITH AMF PANEL AT REGIONAL OFFICE, HYDERABAD** : Estimated Cost: **Rs. 8.51** lakh . Detailed Tender Notice along with conditions of contract and Notice Inviting E -Tender may be s een and downloaded from the Website www.tenderwizard.com/CWC or www.cewacor.nic.in or www.tenderhome.com .

Last date of on line submission of tenders – 10.11.2017 and Last date of submission of EMD, cost of tender, e -tender processing fee & other documents – 13.11.2017

EXECUTIVE ENGINEER

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CENTRAL WAREHOUSING CORPORATION
(A GOVT. OF INDIA UNDERTAKING)

Construction Cell

No.4, NORTH AVENUE ,SRINAGAR COLONY, SAIDAPET,
CHENNAI – 600 015 : GST NO - 33AAACC1206D2ZG
Ph.22301372 ; TeleFax:22354140, Email: eeccchennai@gmail.com

NIT NO. 23 / 2017 -18 **Dated: 27 .10 .2017**

NOTICE INVITING TENDER

(Online /Offline mode)

Online /Offline percentage rate tenders are invited from approved contractors of appropriate class of MES / CPWD / Rai lways / Any Govt. Department/ St ate PWDs / Public Undertakings and Govt. Secto r Construction Agencies for the following work: -

Sl No	NIT NO	Name of Work	Estimated cost put to tender	Earnest Money	Cost of tender including GST document	Time Allowed for co mpletion of work	Tendering Processing Fee	Last date & time of online submission of tenders	Last date & time for submission of EMD, cost of tender, e - tender processing fee & other documents	Date & time of opening of Technical Bid & Financial bid
1	23 / 2017 -18	S/I/T/C OF 75 KVA DIESEL GENERATOR ALONG WITH AMF PANEL AT REGIONAL OFFICE, HYDERABAD	8.51 Lakh	Rs . 17,500 / -	590 / -	60 Days	590 / -	Upto 16.00 hrs on 10.11.2017	Upto 15.00 hrs on 13.11.2017	15.30 HRS ON 13.11.2017

Tender documents including contract conditions and schedule of work may be down loaded by the intending contractors who wish to participate, from the e -tendering portal www.tenderwizard.com/CWC or www.cewacor.nic.in or www.tenderhome.com up to 10.11.2017 **at 16.00 Hr.**

ELIGIBILITY CRITERIA :

Contractor who fulfils the following requirements shall be eligible to quote the rates. **Joint ventures are not accepted .**

1. REGISTRATION

Contractor should be registered in appropriate class of MES / CPWD / Railways / Any Govt. Department/State PWDs / Public Undertakings and Govt. Secto r Construction Agencies.

2. EXPERIENCE CERTIFICATE

Contractor should have satisfactorily co mpleted the similar nature of work during the last seven years ending last day of the month previous to the one in which tenders are invited in the concerned Govt. Department/Public Sector Undertaking and completion certificate enclosed as per the followin g requirements.

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a) Three similar completed works each costing not less than 40% of the E.C. i.e. **Rs. 3.41 LAKH**

OR

b) Two similar completed works each costing not less than 60% of the E.C. i.e. **Rs. 5.11 LAKH**

OR

c) One similar completed work costing not less than 80% of the E.C. i.e. **Rs. 6.82 LAKH**

Similar work shall mean works of **ELECTRICAL WORKS** . The value of executed works shall be brought to current costing level by enhancing value of work at simple rate of 7% per annum, calculated from the date of completion to last date of receipt of tender.

3 . TURNOVER

Contractor must have a minimum average annual financial turnover of **Rs . 8.51 Lakh** (100% of E.C)during the last three financial years ending 31st March of the previous financial year in which tenders are invited and enclosed the audited Balance Sheet and statement of Profit & Loss for the preceding three financial years with the tender. In case balance sheet and statement of Profit & Loss for the immediate preceding financial year have not be prepared/ audited, the account for one more preceding financial year can be submitted.

4 . NET WORTH

Tenderer should submit positive net worth certificate duly certified by a practising Chartered Account as per **Annexure -III** based on the latest financial year for which accounts i.e. Profit & Loss Account and Balance Sheet has to be enclosed with the tender.

5 . SOLVENCY CERTIFICATE - FORMAT & VALIDITY.

The contractor must have a solvency of **Rs. 3. 41 Lakh** (40% of EC duly certified by the Banker and solvency certificate should not be more than 06 months old prior to the date of submission of tender or should have validity as on last date of submission of tender. The solvency certificate should be submitted in any of the formats given in **Annexure -II** for the purpose of guidance. Minor deviation in the wordings can be accepted in case it is valid as on date of submission of the tender or issued not more than 06 months before the last date of submission of tender.

6 . GST REGISTRATION

Contractor must have valid GST registration certificate from the concerned authority.

7 . PAN CARD

Tenderer must enclose copy of PAN card alongwith tender.

8 . EMD, COST OF TENDER & TENDER PROCESSING FEE.

Contractor must submit the following:

a . EMD in the form of Accounts Payee, Demand Draft/Pay order / Bankers cheque of a Scheduled bank/ Nationalised bank issued in favour of **EE, CWC, Construction Cell, Chennai** or through e-payment/ NEFT/RTGS. Proof to be submitted/ uploaded with the tender.

b . Cost of tender in the form of Accounts Payee, Demand Draft/Pay order/ Bankers cheque of a Scheduled bank/ Nationalised bank issued in favour of **EE, CWC, Construction Cell, Chennai** or through e-payment/ NEFT/RTGS. Proof to be submitted/' uploaded with the tender.

(i) Name of the bank PUNJAB NATIONAL BANK, Branch: NANDANAM, Chennai
(ii) Account No 4389000100111703 , EXECUTIVE ENGINEER,CWC,CC,CHENNAI
(iii) IFSC Code No. PUNB0438900

c . Tender processing fee (Non-refundable) would be paid mandatorily to M/s KEONICS through e-payment/NEFT through the portal www.tenderwizard.com/CWC .

The last date and time of receipt of EMD, tender fee and processing fee shall be the due date and time of opening of technical bid.

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However, in case of e -payme nt, the proof of EMD and cost of Tender i.e. receipt/ acknowledgment is compulsorily required to be uploaded with the tender. The tender processing fee is to be paid to M/s KEONICS by E -payment only.

9. ORGANISATION DETAILS:

- ✓ In case the tenderer is a propri etorship firm, they will submit an affidavit as per **Annexure -V**
- ✓ 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 certi fied copy of Certificate of Incorporation together with Memorandum and Article of Association shall be submitted).
- ✓ In other cases, certified copy of Certificate of Incorporation shall be submitted by the tenderer.

10. COMPLIANCE TO BID REQUIREMENT

Tender er shall submit a declaration as per **Annexure - IV** with the technical bid confirming that he/she/they has understood the tender documents and his/ her/ their bid complies with the tender requirements / terms & conditions of the tender documents, he/she/they has/have quoted the rates without any condition and deviation and the rates quoted are as per the tender documents. Tenderer need not to submit / upload the full tender document.

11. Tenderer shall also submit an Affidavit duly attested by Notary as per **Annexu re-VII** certifying that the documents submitted alongwith with the tender are under his knowledge and are authentic, genuine, copy of their originals and no part of them is false, forged or fabricated.

12. PRE -CONTRACT INTEGRITY PACT

Tenderer will have to sign the pre -contract integrity pact as per the enclosed performa for contracts having **threshold value of Rs. 2.00 crore or more** and submit the same with the tender and duly signed copy has to be submitted with the tender .

13. CONCESSIONS TO MICRO AND SMALL ENTE RPRISES

"MSEs registered with the prescribed agencies are exempted from payment of EMD and cost of tender and should enclose the proof of their being registered with agencies mentioned in the tender document. Their registration should be valid as on last date of submission of tender and they should also mention the terminal validity of their Registration, failing which their offer shall not be considered for benefits detailed in MSE Notification of Govt. of India dated 23. 03.2012 or any other notificatio n issued thereafter."

14. Tenderer shall submit a Power of Attorney in favour of signatory(ies) duly attested by the notary as per **Annexure -VI** which is for the purpose of guidance only and deviation on the wording can be accepted.
15. Tenderer should upload all the required document with the tender under valid digital signatures uploading of tender with digital signature shall imply that all tender terms and conditions are accepted by the tenderer.
16. Technical & Financial bids would be opened at 3.30 p.m. on **13.11 .2017** 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 in the technical bid then the EMD of the contractor would be forfeited and his/their fina ncial bid would not be opened. He/they himself/themselves would also disqualify for future participation in the tenders of CWC works for the next five years w.e.f. date of opening of technical bid. Decision of the committee to evaluate technical bids woul d be final.

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17 . Tenderers or their authorized representative who may wish to be present, may attend the opening of the technical bids whereas financial bids by only those who are found eligible in technical bids.

18 . The contractor should carefull y read the contents of the Notice Inviting Tender and ensure compliance of all requirements before submitting the tender. Non compliance of the instructions/directions contained in the NIT will lead to rejection of the tender.

EXECUTIVE ENGINEER

DISTRIB UTION FOR WIDE PUBLICITY

1. Website

i) www.tenderwizard.com/CWC , ii) www.cewacor.nic.in .iii) www.tenderhome.com .

2) The Executive Engineer (E), CW, Nampally, Hyderabad - he should ensure wide publicity at their level.

3) Notice Board. -

4) Engg. Offices/ Working Contractors. (as per list enclosed)

Copy to: -

1. The Chief Engineer, CWC, CO, New Delhi

2 . The Regi onal Manager, CWC, RO, Hyderabad

3 . Th e SA M (A/cs) / A SW , CWC , CC, Chennai .

5. M/s Karnataka State Electronics Development Corporation Ltd., Regd Office:TTMC "A" BLOCK, 2nd FLOOR, bmtc Complex, Shanthinagar, K.H.Road , Bangalore -5 60 027(Ph.080 -22225645) - they are requested to info rm this office a s on when the Vendors are registered for participating in tenders for CWC, Chennai works

Any clarification regarding online participation, they can contact : -

M/s Karnataka State Electronics Development Corporation Ltd.,
Regd Office:TTMC " A" BLOCK, 2nd FLOOR, BMTC Complex,
Shanthinagar, K.H.Road, Bangalore -560 027(Ph.080 -22225645

For assistance may call following help line numbers at : Bangalore: 080 -40482000

For local assistance, Mr. Mad h an :09941947400

For assistance at Hyderabad: Mr. Guru Prasad : 09959718831

For assistance at Thiruvananthapuram : Mr. Praveen Kumar : 09745437834

Tender contains pages 1 to 179 This NIT is the part of Tender Document.

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CENTRAL WAREHOUSING CORPORATION

(A Govt. of India Undertak ing)

CONSTRUCTION CELL:

NOTICE INVITING E -TENDERS

On line percentage rate e-tenders are invited on the prescribed form on behalf of **Central Warehousing Corporation** from approved and eligible contractors of appropriate class having registered with MES / CPWD / Railways / Any Govt. Department/State PWDs / Public Undertakings and Govt. Secto r Construction Agencies for the work of

S/I/T/C OF 75 KVA DIESEL GENERATOR ALONG WITH AMF PANEL AT REGIONAL OFFICE, HYDERABAD

The enlistment of the contractors sh ould be valid on the last date of uploading of on -line submission of tenders.

The work is estimated to cost of Rs . 8,51,292/ -
This estimate, however, is given merely as a rough guide.

1.1 The tender documents can be downloaded for submission subject to f ulfilment of the conditions for eligibility criteria, EMD, cost of tender and tender processing fee etc . as described in the Tender Notice. The work experience as one of the eligibility criteria, would be as mentioned below:

1.1.1 For works estimated to cost u pto **Rs. 20 Crore**

(a) Three similar works each of value not less than 40% of estimated cost i.e. Rs. **3.41 LAKHS**

Or

(b) Two similar works each of value not less than 6 0% of the estimated cost i.e. Rs. **5.11 LAKHS**

Or

(c) One similar work of value not less tha n 80% of the estimated cost i.e. **Rs. 6.82 LAKHS**

1.2.2 For works estimated to cost above **Rs. 20 crore.** **(NOT APPLICABLE)**

(a) Three similar works each of value not less than 40% of estimated cost i.e. Rs. ---- lakh

or

(b) T wo similar work each of value not l ess than 60% of estimated cost i.e. Rs. ----- -lakh

O r

(c) O ne similar work of value not less than 80% of estimated cost (rounded to nearest Rs. 10.00 Lakh) i.e. Rs. ---------- lakh in last 7 years ending last day of the month previous to the one in which the tenders are invited.

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from

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the date of completion to the last date of receipt of applicatio ns for tender /up-loading of tender .

1.2.3 To become eligible for submission of tender, the tenderer shall have to furnish an affidavit /undertaking as under:

"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 s tart of work, the Engineer -in-charge shall be free to forfeit the entire amount of Earnest money Deposit/Performance Guarantee."

1.2.4 Tenderer submitting the tender on behalf of a partnership firm or Pvt. Ltd./Public Limited Company must submit the partne rship deed and GPA and/or the certificate of incorporation alongwith memorandum of article of association duly attested by a public notary alongwith the Technical Bid, otherwise they will be disqualified for opening of their Financial Bid.

1. Agreement shall be drawn with the successful tenderer on the prescribed format /form. Tenderer shall quote his/their rates as per various terms and conditions of the said form and it would form part of the agreement.

2. The time allowed for carrying out the work will be **60 Days** from the date of start as defined in Schedule 'F' or from the first date of handing over the site, whichever is later in accordance with the phasing, if any, indicated in the tender documents.

3. The site for the work is available (see additional cond itions of contract on page 136)

Or

The site for the work shall be made available in parts as specified below: -

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4. Tender documents consisting of plans, specifications, the schedule of quantities of the various classes of work to b e done and the set of terms and 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 EE, CWC, CC ,Chennai between 11.00 a.m. to 4.00 p.m. from **27.10. 2017 to 10.11.2017** on every working day except on Sundays and Public Holidays.

5. (i) Tenders shall be accompanied with Earnest money of **Rs 17,500/-**(in cash uptoRs.10000/ -) along with non -refundable cost of tender in the form of Pay order /demand draft /Banke rs cheque of a scheduled bank issued in favour of EE, CWC , CC, CHENNAI and also the tender processing fee in the form as prescribed in the tender notice.

6. The contractor whose tender is accepted, will be required to furnish performance guarantee of 5% (fiv e percent) of the tendered amount within the period specified in Schedule 'F'. 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 schedule bank/Banker's cheque of any schedule bank / demand draft of any scheduled bank(in case guarantee amount is less than Rs.1,00,000/ -)/or Govt. Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in favour of EE, CWC , CC, Chennai in accordan ce 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 earnest money deposited by the contractor shall be forfeited autom atically without any notice to the contractor.

7. The description of the work is as follows:

S/I/T/C OF 75 KVA DIESEL GENERATOR ALONG WITH AMF PANEL AT REGIONAL OFFICE, HYDERABAD

Copies of the drawing and documents pertaining to the works will be open for i nspection by the tenderers in the office of the above -mentioned officer.

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 i s practicable), the form and nature of the site, the means of access to the site, the 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. 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 a 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 issue d to him by the Corporation and local conditions and other factors having a bearing on the execution of the work.

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8. The Competent Authority on behalf of Central Warehousing Corporation does not bind himself to accept the lowest or any other tende r and reserves to himself the authority to reject any or all the tenders received without the 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 for th by the tenderer shall be summarily rejected.

9. 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.

10. The Competent Aut hority on behalf of Central Warehousing Corporation 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.

11. The contractor shall not be permitted to tender for works in the Central Warehousing Co rporation in which his near relative is posted as Divisional Account Officer or as an 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. Any breach of this condition by the contractor would render him liable to be removed from the list of contractors of this Corporation. The contractor shall give a list of Central Warehousing Corporation 's employees related to him.

12. No Engineer empl oyed 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 permi ssion 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 Corpor ation as aforesaid before submission of the tender or engagement in the contractor's service.

13. The tender for works shall remain open for acceptance for a Period of ninety **(90) days** from the date of opening of technical bid. If any tenderer withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier or makes any modifications in terms and conditions of the tender which are not acceptable to the Corporation, then the Corporation shall, without prejudice to any other ri ght, or remedy, be at liberty to forfeit 50% of the said earnest money absolutely . Further the tenderer shall not be allowed to participate in the re -tendering process of the work.

14. Tender Notice & Notice Inviting Tender shall form the part of contract do cument. The successful tenderer/ contractor on acceptance of his tender by the accepting authority, shall sign the agreement within the stipulated period as mentioned in the letter of acceptance/work order of the work and the contract agreement shall consist of : -

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(a) The Press Notification, Tender Notice, Notice Inviting Tender, all the documents of tender & contract for works including additional conditions, 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 there to and also the correspondence related with verification of credentials :

15 . For composite tend ers: -

16.1.1 The EXECUTIVE ENGINEER in charge of the Construction Cell will call the tenders for the composite work. The cost of tender document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite te nder.

16.1.2 The tender document will include the following components:

Part A : - press notification, tender notice, notice inviting tenders, tender & contract for works including schedule A to F for composite work, Standard General Conditions of contra ct for CWC 2012 with latest addition as applicable with all amendments/ modifications.

Part B: - General/specific conditions, specifications and schedule of quantities applicable to composite work.

16.1.3 The tenderer must associate with himself, agencies of the appropriate class eligible to tender for the minor components individually.

16.1.4 The eligible tenderers shall quote their rates by considering all items of composite work.It will be obligatory on the part of the tenderer to sign the tender doc uments for all the components (The schedule of quantities, conditions and special conditions etc.)

16.1.5 After acceptance of the tender by competent authority, the EXECUTIVE ENGINEER in charge of Construction Cell shall issue letter of award of composite work to the contractor on behalf of CWC.

16.1.6 Entire work under the scope of composite tender shall be executed under one agreement.

16.1.7. Security deposit will be worked out based on the estimated cost of all the items of the composite work. The ear nest money will become part of the security deposit of the work.

16.1.8. The main contractor has to associate agency(s) for minor component(s) confirming to eligibility criteria as defined in the tender document and has to submit detail of such agency(s) to Engineering -in -Charge within prescribed time. Name of agency(s) to be associated shall be approved by Engineering -in -Charge.

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16.1.9 .In case the main contractor intends to change any of the above agency/agencies during the operation of the contra ct, he shall obtain prior approval of Engineering -in-Charge. The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineering -in- Charge is not satisfied with the performance of any agency, he can direct the contr actor to change the agency executing such items of work and this shall be binding on the contractor.

16.1.10. The main contractor has to enter into agreement with the contractor(s) associated by him for execution of minor component(s). Copy of such agr eement shall be submitted to Engineering -in-Charge. In case of change of associate contractor, the main contractor has to enter into agreement with the new contractor associated by him.

16.1.11. Running payment for the composite work shall be made by En gineering –in-Charge.

16.1.12. Final bill of the whole work shall be finalized and paid by the Engineering -in-Charge.

16. The contractor should quote the rates in figures as well as in words on the specified page number **179** of the Schedule of work. In t he event of signing the tender by the tenderer in an Indian language, the percentage above or below 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 the cas e of illiterate contractors, the rates or the amounts tendered to be attested by a witness.

17. 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-Ch arge shall be communicated by the contractor to the Engineer -in-Charge.

18. Sales Tax or any other tax on material in respect of this contract shall be payable by the contactor and Central Warehousing Corporation will not entertain any c laim whatsoever in th is respect .

19. GST or any other tax on input material or services used by the Contractor in respect of this contract shall be payable by the contactor and Central Warehousing Corporation will not entertain any claim whatsoever in this respect.

20. The rates qu oted by the tenderers/contractors should be exclusive of GST and the same will be payable by the Corporation over and above the Schedule of Rates.

21. Prices quoted are inclusive of all applicable taxes except GST. GST shall be paid extra at applicable rates subject to submission of tax invoice as per rules under GST Law. CWC shall deduct GST at source at applicable rates in case transactions under this contract are liable to GST deduction at source. Under GST regime, the contractor is required to correctly a nd timely disclose the details of output supplies to CWC as per GST rules in his returns. Non compliance would result in mismatching of claims and denial of input tax to CWC. Not with standing anything contained in Agreement / Contract, in case of such de fault by the

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contractor the amount of input tax credit denied in GST along with interest and penalty shall be recovered from the contractor.

22. 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 and (iii) Horticulture.

23. The contractor shall submit list of works which are in hand (Progress) in the following form:

Name of Work	**Name and Particulars of Divisions of Department/ Organisation where work is being executed**	**Amount of work**	**Position of work in Progress**	**Remarks**
1	2	3	4	5

EXECUTIVE ENGINEER
for and on behalf of
Central Warehousing Corporation

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CENT RAL WAREHOUSING CORPORATION

(A GOVT. OF INDIA UNDERTAKING)

"TENDER & CONTRACT"

State: TAMIL NADU CONSTRUCTION CELL: CHENNAI

PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

(A)Tender for the work of: - S/I/T/C OF 75 KVA DIESEL GENERATOR ALONG WITH AMF PANEL AT REGIONAL OFFICE, HYDERABAD

(i) To be submitted online Website www.tenderwizard.com/CWC by 4.00 PM on **10.11.2017**

(ii) To be opened online /offline Website .tenderwizard.com/CWC in presence of tenderers or their authorized representative who may wi sh to be present at 3.30 PM on **13.11.2017** in the office of the EXECUTIVE ENGINEER, CWC, CONSTRUCTION CELL ,CHENNAI

(Refer Details in Tender Notice too)

T E N D E R

I/We have read and examined the Tender Notice, Notice Inviting Tender, Schedule A, B, C, D, E & F, specifications applicable, drawings and designs, general rules and directions, conditions of contract, clauses of contract, additional, special conditions, schedule of rate and other documents and rules referred to in the conditions of contr act 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 a ll respects with the specifications, designs, drawings and instructions in writing referred to in Rule 1 of General Rules and Directions and in clause 11 of the General Conditions of Contract and with such materials as are provided for by, and in respects in accordance with such conditions so far as applicable.

I/We agree to keep the tender open for ninety **(90) days** from the due date of opening (under single bid system) /ninety days from the date of opening of financial bi d in case tenders are invited in two bid system (strike out as the case may be) and not to make any modifications in its terms and conditions.

A sum of **Rs 17,500 /-** is hereby forwarded in cash/Pay order/Dema nd Draft of a Scheduled bank /through e -payment as EMD and cost of the tender *. If I/ We fail to furnish the prescribed performance guarantee within prescribed period, 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, i f 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 and the performance guarantee absolutely, otherwise th e 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 ordere d, up to 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 forfeit ure of earn est money or both Earnest Money a nd Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re -tendering process of the work.

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"I/we undertake and confirm that eligible similar work(s) has/have not been got execut ed 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 sec ret / 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 Corporati on.

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 above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of Central Warehousing Corporation for a sum of Rs_____ (Rupees_____ _____) i.e._____%age above/below the estimated cost of work of Rs._____ (Rupees_____) . The letters referred to below shall form part of this contract agreement.

a)_____ _____
b)_____
c)_____

For & on behalf of CWC
Signature.....
Designation.....

Dated: .....

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CENTRAL WAREHOUSING CORPORATION
(A Govt. of India Undertaking)

GENE RAL RULES AND DIRECTIONS

1. All works proposed for execution by contractor will be notified in a form of Tender Notice pasted in public places and signed by the Officer Inviting Tender or by Publication in Newspapers as well as web sites as indicated in the tender notice as the case may be.

This form will state the work to be carried out, as well as the date for submitting and opening of tenders and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the tender, and the amount of Security Deposit and performance guarantee to be deposited by the successful tenderer and the percentage, if any, to be deducted from the bills. Copies of the specifications designs and drawings and any other documents required in connect ion with the work signed for the purpose of identification by the officer inviting tender shall also be open for inspection by the contractor at the office of officer inviting tender during office hours.

2. In the event of the tender being submitted by a fir m, it must be signed separately by each partner thereof, or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power -of -attorney authorizing him to do so, such power of attorney to be produced with the tender and it must disclose that the firm is duly registered under the Indian Partnership Act, 1952. Tenderer submitting the tender on behalf of a Pvt. Ltd./Public Ltd. Co. Must submit the certificate of incorporation and article of association/memorandum of asso ciation alongwith the technical bid otherwise they will be disqualified for opening of their financial bid.

3. Receipts for payments made on account of work, when executed by a firm, must also be signed by all the partners, except where the contractors are de scribed in their tender as a firm, in which case receipts must be signed in the name of the firm by one of the partners, or by some other person having authority to give effectual receipts for the firm.

Applicable for Item Rate Tenders only

4. Any person who submits a tender shall fill up the usual printed form, stating at what rate he is willing to undertake each item of the work. 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. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit se parate tender for each. Tender shall have the name and number of the works to which they refer, written on the envelopes.

The rate(s) must be quoted in decimal coinage. Amounts must be quoted in full Rupees by ignoring 50 paisa and considering more than 5 0 paisa as Rs.1.00.

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 th e schedule of quantity for all sub

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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 tim e 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 based on the average financial turnover of the tenderers and whosoever is having the higher turnover would be declared to be the lowest.

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 r ate of individual items), refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each lowest contractors.

Applicable for Percentage Rate Tenders only .

4A: In case of Percentage Rate Tenders, contractor shall fill up the usual printed form, stating at what percentage below / above (in figures as well as in words) the total estimated cost given in the Schedule of Quantities at Schedule 'A', he will be willing to execute the work. The tender submitted shall be treated as invalid if:

1. The contractor does not quote percentage above/below on the total amount of tender or any section/sub head of the tender.
2. The percentage above/below is not quoted in figures & words both on the total amount of tender or any section/su b head of the tender.
3. The percentage quoted above/below is different in figures & words on the total amount of tender or any section/sub head of the tender.

Tender er s, which propose any alteration in the work specified in the said form of invitation of tenders, or in the time allowed for carrying out the work, or which contain any other conditions or any sort including conditional rebates, will be summarily rejected. No single tender shall include more than one work, but contractors who wish to tende r for two or more works shall submit separate tender for each. Tender shall have the name and number of the works to which they refer, written on the envelopes.

4B: In case the lowest tendered amount (estimated cost ± amount worked on the basis of percen tage 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 of fer is again found to be equal, the lowest tender, among such contractors, shall be decided based on the

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average financial turnover of the tenderers and whosoever is having the highest turnover would be declared to be lowest.

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, and will enter the amounts of the several tenders in a tender register/comparative statement in a suitable form. In the event of a tender being accepted, a receipt for the earnest money forwarded therewith shall there upon be given to the contractor who shall thereupon for the purpose of identification sign copies of the specification and other documents mentioned in Rule 1. In the event of a tender being rejected, the earnest money forwarded with such unaccepted tenders shall there -upon be returned to the contractor remitting the same without any interest.

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 acknowledgement of payment to the Officer Inviting Tender and the cont ractor shall be responsible for seeing that he procures a receipt signed by the Officer Inviting Tender or a duly authorized cashier.

8. The memorandum of work tendered for and the schedule of materials to be supplied by the Central Warehousing Corporation and their issue rates shall be filled in and completed in the office of the Officer Inviting Tender before the tender form is issued. If a form is issued to an intending tenderer without having been so filled in and incomplete, he shall request the officer t o have this done before he completes and delivers his tender.

9. The tenderers shall sign a declaration under the official's Secret Act, 1923, for maintaining secrecy of the tender documents, drawing or other records connected with the work given to them. The unsuccessful tenderers shall return all the drawings given to them.

9.(a) Use of correcting fluid, anywhere in tender documents is not permitted. Such tender is liable for rejection.

Applicable for Item Rate Tender only

10. In 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 and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall unless otherwise proved be taken is correct. If the amount of an item is not worked out by the contractor or it does not correspond with the rates written either in the figures or in the words then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the contractor in figures and in words 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 both in figure(s), word(s), and amount blank, it will be presumed that contractor has included the cost of this/these item(s) in other item(s) and rate for such item(s) will be considered as zero and work will be required to be executed accordingly.

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Applicable for Percentage Tender only

10.A. 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 and words, so that there is no discrepancy.

However, if the Contractor has worked out the amount of the tender and if any discrepancy is found in the percentage quoted in words and figures, the percentage which corresponds with the amount worked out by the contractor shall, unle ss otherwise proved, be taken as correct. If the amount of the tender is not worked out by the contractor or it does not correspond with the percentage written either in figures or in words then the percentage quoted by the contractor in words shall be ta ken as correct. Where the percentage quoted by the contractor in figures and in words tally but the amount is not worked out correctly, the percentage quoted by the contractor will, unless otherwise proved be taken as correct and not the amount.

11. In the ca se of any tender where unit rate of any item/items appear unrealistic, such tender will be considered as unbalanced and in case of the tenderer is unable to provide satisfactory explanation such a tender is liable to be disqualified and rejected.

Applicabl e for item Rate Tender only

12. All rates shall be quoted on the tender form. The amount for each item should be worked out and requisite totals given. Special care should be taken to write the rates in figures as well as in words and the amount in figures on ly, in such a way that interpolation is not possible. The total amount should be written both in figures and in words. In case of figures, the word 'Rs.' should be written before the figures of rupees and word 'P' after the decimal figures, e.g., 'Rs.2.1 5 P' and in case of words, the word, 'Rupees' should precede and the word 'Paise' should be written at the end. Unless the rate is in whole rupees and followed by the word 'only' it should invariably be upto two decimal places. While quoting the rate in schedule of quantities, the word 'only' should be written closely following the amount and it should not be written in the next line.

Applicable for Percentage Rate Tender only

12A. In Percentage Rate Tender, the tenderer shall quote percentage below/above (in figures as well as in words) 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 as well as in words 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.2.15 P and in case of words, the word 'Rupees' should precede and the word 'Paise' should be written at the end.

13. (i) The contractor who se tender is accepted, will be required to furnish performance guarantee of 5% (five percent) of the tendered amount within the period specified in Schedule F. 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 schedule bank/Banker's cheque of any schedule 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 Fixed Deposit Rece ipts 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 of the contractor at the rates mentioned above and the earnest money deposited at the time of tenders, will be treated as a p art of the Security Deposit. The Security amount will also be accepted in cash or in the shape of Government Securities. Fixed Deposit

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Receipt of a Scheduled Bank or State Bank of India will also be accepted for this purpose provided confirmatory advice is enclosed.

14. 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 shall be communicated in writing to the Engineer -in-Charge.

15. GST or any other tax on input material or services used by contractor in respect of this contract shall be payable by the contractor and Central warehousing Coeporation will not entertain any claim whatsoever in this respect.

16. The contractor shall give a list of CWC employees related to him.

17. The tender for the work shall not be witnessed by a contractor or contractors who himself/ themselves has/have tendered or who may and has/have tendered for the same work. Failure to observe this condition would render, tend ers of the contractors tendering, as well as witnessing the tender, liable to summary rejection.

18. The tender for composite work includes in addition to building work all other works such as sanitary and water supply installations drainage installation, elec trical work, horticulture work, roads and paths etc. The tenderer apart from being a registered contractor (B&R) of appropriate class, must associate himself with agencies or appropriate class, which are eligible to tender for sanitary, and water supply d rainage, electrical and horticulture works in the composite tender.

19. The contractor shall submit list of works which are in hand (progress) in the following form:

S. No	Name of work	Name of particulars of the dept. where work is	Value of work	Position of wor ks in progress	Remarks

20. The contractor shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of the contract and the Superint ending Engineer/ Executive Engineer may in his discretion without prejudice to any other right or remedy available in law cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of th e provisions of the said Act.

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21 . Price preference to contractors belonging to SC/ST for award of contracts:

(1) For works upto an estimated cost of Rs. 1.65 Lakh, a price preference upto 5% (with reference to the lowest valid price bid) may be allowed in fa vour of individual SC/ST contractors. In such cases, tenders may be entertained even from non -registered contractors. No earnest money is required in such cases.

(2) For works of estimated cost ranging from Rs. 1.65 Lakh to Rs. 4.00 Lakh, tenders may be obtain ed only from registered contractors. The price preference upto 5% **(**with reference to the lowest valid price bid) may be allowed in favour of individual SC/ST contractors. However, earnest money at a reduced rate of ½% may be accepted in such cases.

(3) In all such cases, the above concessions shall be allowed only after proper verification of the individual contractors claim of belonging to SC or ST community, as the case may be.

These concessions will be admissible upto 31.12.2013.

22 . Contractor/tenderer wi ll have to submit the bar chart alongwith the performance guarantee against the letter of acceptance which will also be forming the part of agreement and time to time progress of the contractor wo u ld be reviewed as per the bar chart.

A) Following missin g documents as called for after scrutiny of the technical bids as submitted by the bidders, should not be of a date later than the date of submission of bid.

i. Registration Certificate
ii. Experience Certificate
iii. Audited balance sheet and statement of profit & loss for preceding three financial years.
iv. GST Registration.
v. PAN card.
Or
Certificate of Incorporation, Memorandum of Association and Articles of Association in case tenderer is a company.
vi. Valid registration certificate of MSEs regist ered with precfibed agency (Applicable for MSEs)
viii. Power of Attorney/Board resolution in favour of signatory(ies) duly attested by notary as per Annexure -VI
ix. Solvency Certificate.

B) The following missing documents as called for after the scrutiny of technical bid which are generally not in the nature of statutory documents and they explain the position existing in the past, if such missing documents are asked from the bidder, they can be of a date after the date of last date of submission of the b ids.

i. Net Worth Certificate
ii. Annexure -VI of Compliance to bid requirement.
iii. Affidavit of proprietary firm as per Annexure -V.

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Iv. Affidavit as per Annexure - VII relates to certification of genuineness and authenticity of documents.

v. Pre - Con tract integrity pact.

Missing documents sought is allowed to be submitted only by uploading on the relevant tender website through which same has been asked.

2 4. Contractor/tenderer will have to submit the bar chart alongwith the performance guarantee ag ainst the letter of acceptance which will also be forming the part of agreement and time to time progress of the contractor would be reviewed as per the bar chart.

CONDITIONS OF CONTRACT

DEFINITIONS:

1. The **'Contract'** means the documents forming the tende r 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 specification, designs, drawings and instructions, is sued 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 expression shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:

i) In the expressions ' **Works'** or **'Work'** 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 **'Site'** shall mean the land and/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 ' **Contractor'** shall mean the individual or firm or company whether incorporated or not, undertaking the works and shall include legal personal representative or such individual or the persons composing such firm or company, or the successors of such firm or company and the permitted assignees of su ch individual or firm or company.

iv) The **Corporation/ Corpn** ./ **Department** means the **Central Warehousing Corporation.**

v) The **'Engineer -in -Charge'** means the Superintending Engineer/ Executive Engineer who shall supervise and be in charge of the work and wh o shall sign the contract on behalf of the Central Warehousing Corporation.

vi) **Accepting authority** shall mean the authority mentioned in Schedule 'F'.

vii) Excepted Risk 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

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acts of Government, damages from aircraft, acts of God, such as earthquake, lightening and unprecede nted 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 on the part of the Works in respect of which a certificate of completion has bee n issued or a cause solely due to faulty design of works.

viii) Market rate 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.

ix) Schedule(s) 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 th e amendments thereto issued up to the date of receipt of the tender.

x) Department means CWC or any department of Government of India which invites tenders on behalf of the Corporation as specified in Schedule 'F'.

xi) District specifications means the s pecifications followed by the State Government in the area where the work is to be executed.

xii) Tendered value means the value of the entire work as stipulated in the letter of award.

xiii) Date of commencement of work: The date of commencement of work shall be the date of start as specified in Schedule 'F' as indicated in the tender document.

SCOPE AND PERFORMANCE:

3. Where the context so requires, words imparting the singular only also include the plural and vice versa. Any reference to masculine gen der shall whenever required include feminine gender and vice versa.

4. 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 o r of the contract.

5. 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.

WORKS TO BE CARRIED OUT:

6. The work to be carried out under the Contract shall, except as otherwise provided in these conditions, include al l 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 and fixing in position and all other labour necessary in and for the full and entire execution and

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completion o f 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 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 work s.

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 sc ale 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) Description of Schedule of Quantities.
ii) Particular Specification and Special Condition, if any.
iii) Drawings
iv) C.P.W.D. Specifications
v) Indian Standard Specifications of B.I.S.

8.2 If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be deciding authority with regard to the intention of the documents and his decision shall be final and binding on the contractor.

8.3 Any error in description, quantity or rate in Schedule of Quantities or any omission there from 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 CONTRACT :

9. The successful tenderer/ contractor, on acceptance of his tender by the Accepting Authority shall , within the period specified in the letter of acceptance/work order shall sign the con tract consisting of: -

i) The Press Notice, Tender Notice, Notice Inviti ng Tender, all the documents including drawings, if any forming the tender document as issued/downloaded by the tenderers from the website at the time of invitation of tenders and acceptance thereof together with any correspondence leading there to and co rrespondence related with the verification of credentials and bar chart submitted by the tenderer alongwith the performance guarantee.

ii)Standard Form as mentioned in Schedule 'F' consisting of:

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a) Various standard clauses with corrections upto the date stipulated in Schedule 'F' along with annexures thereto.

b) Safety Code.

c) Model Rules for the protection of health, sanitary arrangements for workers employed by CWC or its contractors.

d) CPWD Contractor's Labour Regulations to be foll owed by CWC in Mutatis Mutandis.

e) List of Acts and omissions for which fines can be imposed.

f) Additional conditions of contract

g) Specifications of works

h) Standard Formats from Appendix – I to XIV.

i) No payment for the work done will be made unless agreement/co ntract is signed by the contractor.

PRE CONTRACT INTEGRITY PACT

10. The contractor will have to sign a **Pre-Contract Integrity Pact** in the enclosed Performa for the contract having threshold value of Rs. 3.00 crore or more and submit the same with the tender duly signed copy has to be submitted with the tender .

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PRE CONTRACT INTEGRITY PACT

General

This pre -bid/pre -contract Agreement (hereinafter called the Integrity Pact) is made on _____ day of the month of _____ between on one hand, the Centr al Warehousing Corporation (A Govt. of India Undertaking), 4/1 Siri Institutional area, HauzKhas, New Delhi, acting through EXECUTIVE ENGINEER , Central Warehousing Corporation (A Govt. of India Undertaking) (hereinafter called the "CORPORATION" which expres sion shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part and M/s _____ represented by Shri _____, (Name of the contractor) (hereinafter called BIDDER which expression shall mean a nd include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the CORPORATION proposes to Construct ---------- MTC godownsalongwith -------- ---------- at and the BIDDER is willing to execute the items of work /Section as per schedule of work, the work order issued, General conditions of the contract of CWC and CPWD specifications.

WHEREAS the BIDDER is a private company/public company/Government undertaking/partnership firm consti tuted in accordance with the relevant law in the matter and the corporation is a PSU performing its functions on behalf of the Ministry of Consumer Affairs, Food and Public Distribution, New Delhi, Govt. of India.

NOW, THEREFORE,

To avoid all forms of co rruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to: -

Enabling the CORPORATION to obtain the desired sai d work at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDER to abstain from bribing or indulging in any corrupt practice in or der to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the CORPORATION will commit to prevent corruption, in any form, by its officials by following transparent proced ures.

The parties hereto hereby agree to enter into this integrity Pact and agree as follows:

1. **Commitments of the Corporation**

1.1 The Corporation undertakes that no official of the CORPORATION, connected directly or indirectly with the contract, will dema nd, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organisation or thir d party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.

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1.2 The CORPORATION will, during the pre-contractor stage, treat all BIDDERS alike and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.

1.3 All the officials of the CORPORATION will report to the appropriate authority any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the CORPORATION with full and verifiable facts and the same is prima facie found to be correct by the CORPORATION, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the CORPORAION and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the CORPORAION the proceedings under the contract would not be stalled.

3. **Commitments of BIDDERS**

The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-

3.1 The BIDDER will not offer, directly or though intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the CORPORATION, connected directly or indirectly with the bidding process, or to any person, organisation or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.

3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the CORPORATION or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the CORPORATION for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with the CORPORATION.

3.3 The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the CORPORATION or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.

3.4 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.

3.5 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

3.6 The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the CORPORATION as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.

3.7 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

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3.8 The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.

3.9 If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the CORPORATION, or alternatively, if any relative of an officer of the CORPORATION has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filling of tender.
The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956

3.10 The BIDDER shall not lend to or borrow any money from or enter into any monetary deali ngs or transactions, directly or indirectly, with any employee of the CORPORATION

4. **Previous Transgression**

4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any o ther company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.

4.2 The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5. **Earnest Money (Security Deposit)**

5.1 While submitting Technical bid, the BIDDER shall deposit an amount of Rs. 19000/ - (to be specified in NIT) as Earnest Money, with the CORPORATION through any of the following instruments:

(i) Bank Draft or a Pay Order or deposit at call receipt of a scheduled/nationalized favour of Executive Engineer, Centra l Warehousing Corporation, Construction Cell , Chennai.

(ii) Any other mode or through any other instrument (to be specified in the NIT).

5.2 The Earnest Money/Security Deposit and performance guarantee shall be valid for the period as per the relevant terms & condi tion of the contract

5.3 No interest shall be payable by the CORPORATION to the BIDDER on Earnest Money/Security Deposit/performance guarantee for the period of its currency and upto their validity.

6. **Sanctions for Violations**

Any breach of the aforesaid provis ion by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the CORPORATION to take all or any one of the following actions, wherever required: -

(i) To immediately call off the pre -con tract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.

(ii) The Earnest Money Deposit (in pre -contract stage) and/or Security Deposit/Performance Bond (after th e contract is signed) shall stand forfeited either fully or partially, as decided by the CORPORATION and the CORPORATION shall not be required to assign any reason therefore.

(iii) To immediately cancel the contract, if already signed, without giving any comp ensation to the BIDDER.

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(iv) To recover all sums already paid by the CORPORATION, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the CORPORATION in connection with any other contract for any other stores/work suchoutstanding payment could also be utilized to recov er the aforesaid sum and interest.

(v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the CORPORATION, along with interest.

(vi) To cancel all or any other Contr acts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the CORPORATION resulting from such cancellation/rescission and the CORPORATION shall be entitled to deduct the amount so payable from the money(s) due to the BI DDER.

(vii) To debar the BIDDER 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.

(viii) To recover all sums paid in violation of this Pact by BIDDER (s) to any middleman or agent or broker with a view to securing the contract.

(ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the CORPORATON with the BIDDER, the same shall not be opened.,

(x) Forfeiture of Performance Bond in case of a decision by the CORPORATION to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

The CORPORATION will be entitled to take all or any of the actions mentioned at para 6.1(i) to (x) of this Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Ac t, 1988 or any other statute enacted for prevention of corruption.

The decision of the CORPORATION to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the independent Monitor(s) appointed for the purposes of this Pact.

7. **Fall Clause**

The BIDDER undertakes that it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in res pect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/systems or sub systems was supplied by the BIDDER to any other Ministry/Department of the Government of India or a PSU at a lower p rice, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the CORPORATION , if the contract has already been concluded.

8. **Independent Monitor**

The CORPORATION has appointed Sh. Braham Dutt, IAS (Retd.), C -1/30, Pandara Park, New Delhi -110003 as an Independent Monitor (hereinafter referred to as Monitor) for this Pact in consultation with the Central Vigilance Commission.

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The task of the Mo nitor shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

The Monitor shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.

Both the Parties accept that the monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings.

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 .

The BIDDER(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the CORPORATION including that provided by the BIDDER. The BIDDER 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 t he information and documents of the BIDDER/Subcontractor(s) with confidentiality.

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.

The Monitor will submit a written report to the designated Authority of CORPORATION within 8 to 10 weeks from the date of ref erence or intimation to him by the CORPORATION / BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

9. **Facilitation of Investigation**

In case of any allegation of violation of any provisions of this Pact or payment of commission, the CORPORATION or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for t he purpose of such examination.

10. **Law and Place of Jurisdiction**

This Pact is subject to Indian Law. The Place of performance and jurisdiction is the seat of the CORPORATION.

11. **Other Legal Actions**

The actions stipulated in this integrity Pact are without pre judice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

12. **Validity**

The validity of this Integrity Pact shall be from date of its signing and extend upto 5 years or the complete execution of the contract to the satisfaction of both the CORPORATION and the BIDDER/Seller, including warranty period, whichever is later. In case BIDDER is unsuccessful, this integrity Pact shall expire after six months from the dat e of the signing of the contract.

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Should one or several provisions of this Pact out to be invalid; the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

13 . The p arties hereby sign this Integrity Pact at _____ on_____

CORPORATION	BIDDER
Name of the Officer	
Designation	
Witness	Witness
1. _____	1._____
2. _____	2. _____ _____

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CLAUSES OF CONTRACT

Performance Guarantee

CLAUSE 1.

(i) The contractor shall submit an irrevocable PERFORMANCE GUARANTEE of 5% (Five percent) of the tendered amount in addition to other deposits mentioned elsewhere in the cont ract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule 'F' from the date of issue of letter of acceptance. This period can be furthe r extended by the Engineer -in-charge upto a maximum period as specified in Schedule 'F' on written request of the contractor stating the reasons for delays in procuring the Performance Guarantee, to the satisfaction of the Engineer -in-charge. This guaran tee 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 guarant ee amount is less than Rs. 1,00,000/ -) or Government securities or Fixed Deposit Receipts or Guarantee Bonds of any scheduled bank or the State Bank of India in accordance with the form annexed hereto. In case a fixed deposit receipt of any Bank is furnis hed by the contractor to the Corporation as part of the performance guarantee 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 f urnish additional security to the Corporation to make good the deficit.

ii) A letter of acceptance shall be issued in the first instance informing the successful tenderer of the decision of the competent authority to accept his tender and award letter sha ll be issued only after the Performance Guarantee in any of the prescribed form is received. In case of failure by the contractor to furnish the performance guarantee within the specified period. Corporation shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the earnest money absolutely.

iii) The Performance Guarantee shall be initially valid up to the stipulated date of completion plus defect liability period. In case the time for completion of work gets enl arged, the contractor shall get the validity of performance guarantee extended to cover such enlarged time of completion of work including defect liability period. The performance guarantee shall be returned to the contractor, without any interest in accor dance with the provision of Clause 17.

iv) The Engineer -in-Charge shall not make a claim under the Performance Guarantee except for amounts to which the Corporation is entitled under the contract (notwithstanding and / or without prejudice to any other pr ovisions in the contract agreement) in the event of:

(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.

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c) In the event of the contract being determined or rescinded under provisions 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 th e Corporation.

Form ofPerf ormance Security Bank Guarantee Bond

In consideration of Central Warehousing Corporation (hereinafter called "The Corporation") having agreed under the terms and conditions of agreement/ letter No. _____ Dated_____ made between __ _____ and_____(hereinafter called "the said contractor(s)") _____. For the work_____(hereinafter called "the said agreement") having agreed to production of a irrecovable Bank Guarantee fo r Rs._____ (Rupees_____only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement,

We_____(hereinafter referr ed to as "the Bank") hereby undertake to pay (Indicate the name of the Bank) Corporation an amount not exceeding Rs._____(Rupees_____only) on demand by the Corporation

1. We_____do hereby undertake to pay the amounts due and payable under (indicate the name of the Bank) 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). An y 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.

3. We _____further agree that the guarantee herein contained shall remain in (indicate the name of the bank) and effect during the period that would be taken for the perform ance 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 Cor poration certified that the terms and conditions of the said agreement have been fully and properly carried out by the said contractor (s) and accordingly discharges this guarantee.

4. We _____further agree with the Central Warehousing Corporation that the (indicate the name of the bank)Corporation shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time

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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 and 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 or any indulgence by 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 _____ lastly undertake not to revoke this guarantee except with the
(indicate the name of the bank)
previous consent of the Central Warehousing Corporation in writing.

7. This guarantee shall be valid up to _____. Unless extended on demand by Central Warehousing Corporation. Notwithstanding any thing 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 the name of bank)

(Recovery of Security Deposit)

Clause 1A

The person/persons whose tender(s) may be accepted (herein after 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 @ 5% (five percent) of the gross amount of each running bill till the sums along with the sum already deposited as earnest money, will amount to security deposit of 5% of the tendered value of the work. Earnest money shall be adjusted first in the security deposit and further recovery of security deposit shall commence only when the upto date amount of security deposit starts exceeding the earnest money. Such deductions will be made and held by the Corporation by way of security deposit unless contractor has 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 scheduled 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 Department on any account whatsoever and in the event of

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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 of the contractor at the rates mentioned above and the earnest money deposited at the time of tenders will be treated as part of the security deposit.

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.5.00 Lakh subject to the condition that amount of such bank guarantee, except last one, shall not be less than Rs.5.00 Lakh. Provided further that the validity of bank guarantee 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.

Note 1: Govt. papers tendered as security will be taken at 5% (five percent) below its market price or at its face value, whichever is less. The market price of Govt. papers would be ascertained by the Engineer-in-charge at the time of collection of interest and the amount of interest to the extent of deficiencies in value of the Govt. paper will be withheld if necessary.

Note 2 : Govt. 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.

Note 3:Note 1 and 2 above shall be applicable for both clauses 1 and 1 A.

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 or extended date of completion, he shall, without prejudice to any other right or remedy available under the law to the Corporation on account of such breach, pay as agreed compensation the amount calculated at the rates stipulated below as the Chief Engineer/ Superintending Engineer/ EXECUTIVE ENGINEER (whose decision in writing shall be final and binding) may decide on the amount of tendered value of the work for every completed day/month (as applicable) that the progress remains below that specified in clause 5 or that the work remains incomplete

This will also apply to items or group of items for which a separate period of completion has been specified.

Compensation For delay of Work	@ 1.5% per month of delay to be computed on per day basis

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Provided always that the total amount of compensation to be paid under this condition shall not exceed 10% of the tendered value or to the tendered value of the item or group o f items of work for which a separate period of completion is originally given.

The amount of Compensation may be adjusted or set -off against any sum payable to the contractor under this or any other contract with the Corporation. In case, the contractor does not achieve a particular milestone mentioned in schedule F or the reschedule mile stone (s) in terms of clause 5.4, the amount shown against that milestone shall be with held, to be adjusted against the compensation levied at the final grant of extens ion of time. Withholding of this amount on failure to achieve a milestone shall be automatic without any notice to the contractor. However if the contractor with the progress of work on the subsequent mile stone (s), the with held amount shall be release d in case the contractor fails to make up for the delay in subsequent mile stone, amount mentioned against each mile stone missed subsequently also shall be with held. However, no interest, whatsoever shall be payable on such with held amount.

CLAUSE 3

When contract can be deter min - ed

Subject to other provisions contained in this clause, the Engineer -in-Charge may, without prejudice to his any other rights or remedy against the contractor in respect of any delay, 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 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 unworkmanlike manner shall omit to comply with the requirement of such notice fo r 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 so that in the opinion of the Engineer -in-Charge (which shall be final a nd binding) he will be unable to secure completion of the work by the date for completion 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 within the stipulated d ate or items of work with individual date of completion, if any stipulated, on or before such date(s) of completion and does not complete them within the period specified in a notice given in writing in that behalf by the Engineer - in-Charge.

iv) If the co ntractor persistently neglects to carry out his obligations under the contract and / or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a noti ce in writing is given to him in that behalf by the Engineer -in-Charge.

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v) 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.

vi) 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.

vii) 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.

viii) If the contractor being an individual, or if a firm, any partn er 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 amal gamation or re -construction) 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 applications be made unde r 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.

ix) 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.

x) If the contractor shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days.

xi) If the contractor assigns, transfers, sublets (engagement of labour on a piece -work basis or of labour with mater ials 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 Enginee r-in - charge.
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:

a) To determine the contract as aforesaid (of which termination notice in writing to the contractor under the hand of Engineer -in-Charge shall be conclusive evidence). Upon such determination, the earnest money deposit, security deposit already recovered and performance guarantee under the contract shall be liable to be forfeited and s hall be absolutely at the disposal of the Central Warehousing Corporation.

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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 unexecuted out of his ha nds 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.

In the event of above course (s) 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 executi on of the work or the performance of the contract. 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 a nd 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.

CLAUSE 3A

"In case, the work cannot be started due to reasons n ot with in the control of the contractor within 1/8 th of the stipulated time for completion of work, either party may close the contract. In such eventuality, the earnest money deposit and the performance guarantee of the contractor shall be refunded but no payment on account of interest, loss or profit for damages etc. shall be payable at all."

Contractor liable to pay compensation even if action not taken under clause 3

CLAUSE 4 In any case in which any of the powers conferred upon the Engineer -in-Cha rge 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 ca se of default by the contractor and the liability of the contractor for compensation shall remain unaffected.

In the event of Engineer -in-Charge putting in force or any of the powers vested in him under the preceding clause he may, if he so desires after g iving 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 binding on the contractor) use as on hire (the amount of the hire money being also in the final determination of t he Engineer -in-charge) all or any tools, plants, material 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 rate to be certified by Engineer -in-Charge, whose certificate thereof shall be final and binding on the contractor, clerk of the works, foreman or other authorised agent to remove such tools, plants material or stores from the premises (within a time to be specified in such notice) in the

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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 at his risk in all respects and the Certificate of the Engineer -in-Charge as to the expense of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the contractor.

Time & Extension for delay

CLAUSE 5 : 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 works shall commence from the 10th day or such time period as mentioned in letter of Award after the date on which the Engineer-in-Charge issues written orders to commence the work or from the date of handing over of the site whichever is later. If the contractor commits default in commencing the execution of the work as aforesaid Central Warehousing Corporation shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the earnest money and performance guarantee absolutely."

5.1 As soon as possible after the contract is concluded the Contractor shall submit a Time and Progress Chart for each milestone and get it approved from the Engineer-in-charge. 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 date of commencement and completion of various trades of sections of the 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, and further to ensure good progress during the execution of work, the contractor shall in all cases in which the time allowed for any work, exceeds one month (save for special jobs for which a separate programme has been agreed upon) complete the work as per milestone given in schedule F.

5.2 If the work(s) be delayed by: -

(i) force majeure or
(ii) abnormally bad weather, or
(iii) serious loss or damage by fire or
(iv) Civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work or.
(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
(vi) Non-availability of stores, which are responsibility of Corporation to supply or
(vii) Non-availability or break down of tools and plant to be supplied or supplied by the Corporation or
(viii) Any other cause, which, in the absolute discretion of the authority mentioned in Schedule 'F' is beyond the contractor's control.

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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.

1.3. Request for rescheduling of milestones and 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 form. The contractor may also, if practicable, indicate in such a request the period for which extension is desired.

"In any such case the authority mentioned in Schedule 'F' may give a fair and reasonable extension of time and reschedule the milestones for completion of work. Such extension shall be communicated to the contractor by Engineer-in-Charge in writing, within 60 Days of the date of receipt of such request. Non-application by the contractor for extension of time shall not be a bar for giving a fair and reasonable extension by the Engineer-in-Charge and this shall be binding on the contractor."

Measurement of Work Done

CLAUSE 6 . Engineer-in-Charge shall, except or otherwise provided, ascertain and determine by measurement, the value in accordance with the contract of work done.

All measurement of all items having financial value shall be entered in Measurement Book and / or level field book so that a complete record is obtained of all works performed under the contract.

All measurements and levels shall be taken jointly by the Engineer-in-Charge or his authorised representative and by the contractor or his authorised representative from time to time during the progress of the work and such measurements shall be signed and dated by the Engineer-in-Charge and the contractor or their representatives in token of their acceptance. If the contractor objects to any of the measurements recorded, a note shall be made to that effect with reason and signed by both the parties.

If for any reason the contractor or his authorised representative is not available and the work of recording measurements is suspended by the Engineer-in-Charge or his representative, the Engineer-in-Charge and the Department shall not entertain any claim from contractor for any loss or damages on this account. If the contractor or his authorised representative does not remain present at the time of such measurements after the contractor or his authorised representative has been given a notice in writing three (3) days in advance or fails to countersign or to record objection within a week from the date of measurement, then such measurements recorded in his absence by the Engineer-in-Charge or his representative shall be deemed to be accepted by the Contractor.

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If however, contractor raise any objection regarding the measurements within a week fr om the date of records of measurements, in such event, the Engineer -in-charge at his sole discretion may review the same and the decision of Engineer -in-charge shall be final and binding on the contractor and the contractor shall have no right to dispute t he same.

The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for measurements and recording levels.

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 covere d by specifications, measurements shall be taken in accordance with the relevant standard method of measurements 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 authorised representative in -charge of the work before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measur ed and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of 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 authorised 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 measurements without such notice having been given or the Engineer -in-Charges' cons ent 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 authorised repre sentative may cause either themselves or through another officer of the Corporation to check the measurements recorded jointly or otherwise as aforesaid and all provisions stipulated herein above shall be applicable to such checking of measurements or leve ls.

It is also a term of this contract that recording of measurements of any item of work in the measurement book and/or its payment in the interim, on account or 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.

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Payment on intermediate certificate to be regarded as advances

CLAUSE 7 . No payment shall be made for a work, estimated to cost rupees twenty thousand or less till after the whole of the work shall have been completed and certificate o f completion given. For works estimated to cost over Rupees twenty thousand the interim or running account bill shall be submitted by the contractor for the work executed on the basis of such recorded measurements on the format of Corporation 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, Engineer -in - Charge shall prepare or cause to be prepared such bills in which ev ent 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 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 th working day after the day of presentation of the bill by the contractor to the Engineer -in -Charge or his Asstt. Engineer together wit h the account of material issued by the Corporation or dismantled materials, if any. In the 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 payment s 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 wo rk or materials to which it relates 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 any way powers of the Engineer -in -Charge under the contr act or any of such payments be treated as final settlement and adjustments 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, witho ut prejudice to the right of the Corporation 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 discreti on on the basis of a certificate from the Assistant Engineer to the effect that the work has been completed up to the level in question make interim advance payments without detailed measurements for work done (other than foundations, items to be covered u nder finishing items) up to lintel level (including sunshade etc.) and slab

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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 by taking detailed measur ements thereof.

Completion Certificate and completion plans

CLAUSE 8. Within ten days of the completion of the work, the contractor shall give notice of such completion of the Engineer -in -Charge and within three months of the receipt of such notice the Chief Engineer/ EXECUTIVE ENGINEER as the case may be 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 an d/ 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 c leaning 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 d irt as aforesaid, and the contractor shall have no claim in respect of scaffolding or surplus materials as aforesaid except for any sum actually realised by the sale thereof.

Contractor to keep Site Clean

CLAUSE 8A . When the annual repairs and maintenance of works are carried out, splashes and droppings from white washing, colour washing, painting etc., on walls, floor, windows, etc. shall be removed and the surface cleaned simultaneously with the completion of these items of work in the individual rooms, quarters or premises etc. where the work is done without waiting for the actual completion of all the other items of work in the contract. In Case the contractor fails to comply with the requirem ents of this clause, the Engineer -in -Charge shall have the right to get this work done at the cost of the contractor either departmentally or through any other agency. Before taking such action, the Engineer -in -Charge shall give ten days notice in writing to the contractor.

Completion Plans to be Submitted by the C ontractor

CLAUSE 8 B The contractor shall submit completion plan as required vide General Specifications for Electrical works (Part – I internal) 2005 and (Part -II External) 1994 as applicable within thirty days of the completion of the work.

In case, the contractor fails to submit the completion plan as aforesaid, he shall be liable to pay a sum equivalent to 2.5% of the value of the work subject to a ceiling of Rs.15,000 (Rs. Fifteen thousand only) as may be fixed by the Engineer -in -Charge con cerned and in this respect the decision of the Engineer -in -Charge shall be final and binding on the contractor.

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Payment of Final Bill

CLAUSE 9. 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 final certificate of completion furnished by the Chief Engineer/ Superintending Engineer/ Executive Engineer / as the case may be, whichever is earlier. No furth er claims shall be made by the contractor after submission of the final bill and these shall be deemed to have been waived and extinguished.
Payments of those items of the bill in respect of which there is no dispute and of items in dispute, for quantitie s and rates as approved by Engineer -in-Charge, will, as far as possible be made within the period specified herein under, the period being reckoned from the date of receipt of the bill by the Engineer -in-Charge or his authorised Asstt. Engineer, complete w ith account of materials issued by the Department and dismantled materials.
i) If the Tendered value of work is up to Rs.5 lakhs : 3 months
ii)If the Tendered value of work exceeds Rs.5 lakhs : 6 months

Payment of contractor's Bi lls to Banks

CLAUSE 9A . Payment due to the contractor may, if so desired by him be made to his bank registered financial, co -operative or thrift societies or recognised financial institutions instead of direct to him, provided that the Contractor furnishes to the Engineer -in-Charge (1) an authorisation in the form of a legally valid document such as a power of attorney conferring authority on the bank; registered financial, cooperative or thrift societies or recognised financial institutions to receive paym ents, and (2) his own acceptance of the correctness of the account 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, cooperative or thrift societies or recognised financial institutions. While the receipt given by such bank; registered financial, cooperative or thrift societies or recognised financial institutions shall constit ute 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, cooperative or thrift societies or recognised financial institutions.

No thing herein contained shall operate to create in favour of the bank; registered financial cooperative or thrift societies or recognised financial institutions any rights or equities vis-à-vis the Corporation.

Materials Supplied by Corporation

CLAUSE 10 . Materials, which Corporation will supply, are shown in Schedule 'B' which also stipulates quantum, place of issue and rate (s) to be charged in respect thereof. The contractor shall be bound to procure them from the Eng ineer -in-Charge.
As soon as the work is awarded, the contractor shall finalise the programme for the completion of work as per clause 5 of this contract and shall give his estimates of materials required on the basis of drawings/ or schedule of quantities of the work. The Contractor shall give in writing his requirement to the Engineer -in-Charge which shall be issued to him keeping in view the progress of work as assessed by the Engineer -in-Charge, in accordance with the agreed phased programme of work ind icating monthly requirements of various materials. The contractor shall place his indent in writing for issue of such materials at least 7 days in advance of his requirement. –

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Such materials shall be supplied for the purpose of the contract only and value of the materials so supplied at the rates specified in the aforesaid schedule shall be set off or deducted, as and when materials are consumed in items of work (including normal wastage) for which payment is being made to the contractor, from an y sum then due or which may, therefore, become due to the contractor under the contract or otherwise or from the security deposit. At the time of submission of bills the contractor shall certify that balance of materials supplied is available at site in o riginal good condition.

The contractor shall submit along with every running bill (on account of interim bill) material -wise reconciliation statements supported by complete calculations reconciling total issue, total consumption and certified balance (dia meter/section -wise in the case of steel meant for reinforcement in R.C.C. works) and resulting variations and reasons therefore. Engineer -in -Charge shall (whose decision shall be final and binding on the contractor) be within his rights to follow the proc edure of recovery in Clause 42 at any stage of the work if reconciliation is not found to be satisfactory. It applies only in case of supply of cement, steel and any other material on fixed issue rate by the Corporation. The contractor shall bear the cos t of getting the material issued, loading, transporting to site, unloading, storing under cover as required, cutting, assembling and joining the several parts together as necessary. Notwithstanding anything to the contrary contained in any other clause of the contract and all stores/ materials so supplied to the contractor or procured with the assistance of the Corporation shall remain the absolute property of Corporation and the contractor shall be the trustee of the stores/ materials, and the said stores / materials shall not be removed/ disposed off from the site of the work on any account and shall be at all times open to inspection by the Engineer -in -Charge or his authorised agent. Any such stores. materials remaining unused shall be returned to the En gineer -in -Charge in as good a condition in which they were originally supplied at a place directed by him, at a place of issue or any other place specified by him as he shall require, but in case it is decided not to take back the stores/ materials the con tractor shall have no claim for compensation on any account of such stores/ materials so supplied to him as aforesaid and not used by him or for any wastage in or damage to in such stores/ materials.
On being required to return the stores/materials, the co ntractor shall hand over the stores/ materials on being paid or credited such price as the Engineer -in -Charge shall determine, having due regard to the condition of the stores/ materials. The price allowed for credit to the contractor, however, shall be a t the prevailing market rate not exceeding the amount charged to him, excluding the storage charge, if any. The decision of the Engineer -in -Charge shall be final and conclusive. In the event of breach of the aforesaid condition, the contractor shall in a ddition to throwing himself open to account for contravention of the terms of the licences or permit and/ or for criminal breach of trust, be liable to Corporation for all advantages or profits resulting or which in the usual course would have resulted to him by reason of such breach. Provided that the contractor shall in no case be entitled to any compensation or damages on account of any delay in supply or non -supply thereof all or any such materials and stores provided further that the contractor shall be bound to execute the entire work if the materials are supplied by the Corporation within the original scheduled time for completion of the work plus 50% thereof or schedule time plus 6 months whichever is

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more if the time of completion of work e xceeds 12 months but if a part of the materials only has been supplied within the aforesaid period then the contractor shall be bound to do so much of the work as may be possible with the materials and stores supplied in the aforesaid period. For the comp letion of the rest of the work, the contractor shall be entitled to such extension of time as may be determined by the Engineer -in-Charge whose decision in this regard shall be final and binding on the contractor.

The contractor shall see that only the re quired quantities of materials are got issued. Any such material remaining unused and in perfectly good/original condition at the time of completion or determination of the contract shall be returned to the Engineer -in-Charge at the stores from which it was issued or at a place directed by him by a notice in writing. The contractor shall not be entitled for loading, transporting, unloading and stacking of such unused material except for the extra lead, if any involved, beyond the original place of issue.

Materials to be provid ed by the contractor

CLAUSE 10A . 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 Engi neer -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 contr actor 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 req uire intimate to the Contractor in writing whether the 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 specifica tions 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 and cost submit the sam ples 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 Cont ractor 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 risks and 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 authorised representative shall at all times have access to the works and to all workshops and places where work is being prepared or from where

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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 form 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 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'.

Secured advance on non - perishable material

CLAUSE 10 B . The contractor, on signing an indenture in the form to be specified by 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 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 materia ls 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.

Such secured advance shall also be payable on other items of perishable nature, fragile and combustible with the approval of the Engineer -in -Charge provided the contractor provides a comprehensive insurance cover for the full cost of such materials. The decision of the Engin eer -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.

Payment on account of increase in price/wages due t o statutory order(s)

CLAUSE 10 C. If after submission of the tender, the price of any ma terial incorporated in the works (excluding the material supplied from the Engineer -in -Charge's stores in accordance with Clause 10 thereof) and/or wages of labour increases as a direct result of the coming into force of any fresh law, or statutory rule or order (but not due to any changes of rate in sales tax/VAT, Central/State Excise/Custom Duty) beyond the prices/wages prevailing at the time of last stipulated date for receipt of the tender including extensions, if any, for the work during contract perio d including the justified period extended under the provisions of clause 5 of the contract without any action under clause 2, then the amount of the contract shall accordingly be varied and provided further that any such increase shall be limited to the price/wages prevailing at the time of stipulated date of completion or as prevailing for a period under consideration, whichever is less.

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If after submission of the tender, the price of any material incorporated in the works (excluding the materi als being supplied from the Engineer -in-Charge's stores in accordance with Clause 10 thereof) and/or wages of labour as prevailing at the time of last stipulated date of receipt of tender including extensions, if any, is decreased as a direct result of the coming into force of any fresh law or statutory rules or order (but not due to any changes of rate in sales Tax/VAT, Central/State Excise/Custom Duty), Corporation shall in respect of materials incorporated in the works (Not being a material supplied from the Engineer -in-Charge's stores in accordance with Clause 10 thereof) and/or labour engaged on the execution of the work after the date of coming into force of such law, statutory rule or order be entitled to deduct from the dues of the contractor, su ch amount as shall be equivalent to the difference between the prices of materials and/or wages as they prevailed at the time of the last stipulated date for receipt of tender including extensions if any for the work and the prices of materials and/or wage s of labour on the coming into force of such law, statutory rule or order. This will be applicable for the contract period including the justified period extended under the provisions of clause 5 of the contract without any action under clause 2. Engineer -in-charge may call books of accounts and other relevant documents from the contractor to satisfy himself about reasonability of increase in prices of materials and wages.

The contractor shall, within a reasonable time of his becoming aware of any alterati on in the price of any such material and/or wages of labour, give notice thereof to the Engineer -in-charge stating that the same is given pursuant to this condition together with all information relating thereto which he may be in position to supply.

For this purpose, the labour component of the work executed during period under consideration shall be the percentage as specified in Schedule 'F', of the value of work done during that period and the increase/decrease in labour shall be considered on the min imum daily wages in Rs. of any unskilled adult male Majdoor, fixed under any law, statutory rule or order.

Payment due to increase / decrease in prices / wages after receipt of tender for works (time period more than 18 months)

CLAUSE 10 (CC) If the pr ices of materials (not being materials supplied or services rendered at fixed prices by the Corporation in accordance with Clauses 10 & 34 thereof) and/or wages of labour required for execution of the work increase, the contractor shall be compensated for such increase as per provisions detailed below and the amount of the contract shall accordingly be varied, subject to the conditions that such compensation for escalation in prices shall be available only for the work done during the stipulated period of t he contract including the justified period extended under the provision of Clause 5 of the Contract without any action under Clause 2 . However, for the work done during the justified period extended as above, the compensation as detailed below will be limi ted to prices/wages prevailing at the time of stipulated date of completion or as prevailing for the period under consideration, whichever is less.No such compensation shall be payable for a work for which the stipulated period of completion is equivalent or less than the time as specified in Schedule F. Such compensation for escalation in the prices of material and labour, when due, shall be worked out based on the following provisions: -

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i. The base date for working out such escalation shall be t he last stipulated date of receipt of tenders including extension, if any.

ii) The cost of work on which the escalation will be payable shall be reckoned as below:

a) Gross value of work done upto this quarter : (A)

b) Gross value of work do ne upto last quarter : (B)

c) Gross value of work done since previous Quarter (a -b) : (C)

d) Full assessed value of Secured Advance fresh Paid in this quarter : (D)

e) Full assessed value of Secured Advance recovered in this quarter : (E)

f) Full assessed value of Secured Advance for which escalation is payable in this quarter (d -e) : (F)

g) Advance payment made during this quarter : (G)

h) Advance payment recovered during this quarter : (H)

i) Advance payment for which escalation is pay able in this quarter (g -h) : (I)

j) Extra items /deviated quantities of the item as per Clause 12 based on prevailing market rates during this quarter : (J)

Then $M=C \pm F \pm I - J$

$N = 0.85 M$

k) Less cost of material supplied by the Corporation as per C lause 10 and recovered during the quarter : (K)

l) Less cost of services rendered at fixed charges as per Clause 34 and recovered during the quarter : (L)

Cost of work for which escalation is applicable:

$$W = N - (K + L)$$

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iii) The components for material, labour, P.O.L. etc. shall be predetermined for every work and incorporated in the conditions of contract attached to the tender papers included in Schedule E. The decision of the Engineer -in-Charge in working out such percentages shall be binding on the contractor.

iv) The compensation for escalation for other materials and P.OL. shall be worked out as per the formula given below:

(a) Adjustment for civil component /electrical component of construction

(a) Adjustment for component of 'Material'

$$Vm = W \times \frac{Xm}{100} \times \frac{M1 - M1_0}{M1_0}$$

Vm = Variation in material cost i.e., increase or decrease in the amount in rupees to be paid or recovered.

W = Cost of work done worked out as indicated in sub para (ii) of clause 10 CC .

Xm = Component of 'materials' expressed as percent of the total value of work.

M1 = All India whole sale Price Index for civil component/electrical component* of construction material as worked out on the basis of All India Wholesale Price Index for Individual Commodities/Group Items for the period under consideration as published by the Economic Advisor to Govt. of India, Ministry of Industry & commerce and applying weightages to the Individual commodities/Group Items. (In respect of the justified period extended under the provisions of clause 5 of the contract without any action under clause 2, the index prevailing at the time of stipulated date of completion or the prevailing index of the period under consideration wherever is less, shall be considered).

MI_0 = All India Wholesale Price Index for civil component/electrical component* of construction material as worked out on the basis of All India Wholesale Price Index for Individual Commodities/Group Items valid on the last stipulated date of receipt of tender including

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extension, if any, as published by the Economic Advisor to Govt. of India, Ministry of Industry & commerce and applying weightages to the Individual commodities/Group Items.

*Note: Relevant component only will be applicable.

(b) Adjustment for component of 'POL'

i) $Vf = W \times \frac{Z}{100} \times \frac{(FI - FI^0)}{FI^0}$

Vf -- variation in cost of fuel, oil and lubricant, increase or decrease in the amount in rupees to be paid or recovered.

W -- Cost of work done, worked out as indicated in sub-para (ii) of Clause 10CC.

Z -- Component of fuel , Oil and Lubricant expressed as percent of total value of work.

F1 -- All India Whole Sale Price Index for Fuel, Oil & Lubricant for the period under consideration as published by Economic Advisor to Government of India, Ministry of Industry & Commerce, New Delhi (In respect of the justified period extended under the provisions of clause 5 of the contract without any action under clause 2, the index prevailing at the time of stipulated date of completion or the prevailing index of the period under consideration wherever is less, shall be considered).

$F1_0$ -- The All India Wholesale Price Index for Fuel, Oil & Lubricant valid on the last stipulated date of receipt of tender including extension if any.

v) The following principles shall be followed while working out indices mentioned in para (iv) above.

a) The compensation for escalation shall be worked out at quarterly intervals and shall be with respect to the cost of work done as per bills paid during the three calendar months of the said quarter. The first such payment shall be made at the end of three months after the month (excluding) in which the tender was accepted and thereafter at three month's interval. At the time of completion of the work, the last

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period for payment might become less than three months, depending on the actual date for completion

b) The index (MI/FI etc.) relevant to any quarter /period for which such compensation is paid shall be arit hmetical average of the indices relevant to the three calendar months, if the period up to the date of completion after the quarter, covered by the last such instalment of payment is less than three months, the index MI and FI shall be the average of the i ndices for the months falling within that period.

vi) The compensation for escalation for labour shall be worked out as per the formula given below:

$$V_L = W \times \frac{Y}{100} \times \frac{LI - LIo}{LIo}$$

V_L = Variation in labour Cost i.e. amount of incre ase or decrease in Rupees to be paid or recovered.

W = Value of work done, worked out as indicated in Sub -Para (ii) above.

Y = Component of labour expressed as a percentage of the total value of the work.

LI = Minimum wage in rupees of an unskilled adult male mazdoor fixed under any law, statutory rules or order as applicable on the last day of the quarter previous to the one under consideration . (In respect of the justified period extended under the provisions of clause 5 of the contract without a ny action under clause 2, the index prevailing at the time of stipulated date of completion or the prevailing index of the period under consideration wherever is less, shall be considered).

LIo = Minimum daily wage in Rupees of an unskilled adult male mazd oor, fixed under any law, statutory rule or order as on the last stipulated date of receipt of tender including extensions, if any.

vii) The following principles will be followed while working out the compensation as per sub para (vi) above.

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(a) The minimum wage of an unskilled male mazdoor mentioned in Sub -Para (vi) above shall be the higher of the wages notified by Government of India Ministry of Labour and that not ified by the local administration , both relevant to the place of work and the period of reckoning.

(b) The escalation for labour also shall be paid at the same quarterly intervals when escalation due to increase in cost of materials and/or P.O.L. is paid under this clause. If such revision of minimum wages takes place during any such quarterly intervals, the escalation compensation shall be payable at revised rates only for work done in subsequent quarters.

(c) Irrespective of variations in minimum wages of any category of labour, for the purpose of this clause, the variation in the rates for a n unskilled adult male mazdoor alone shall form the basis for working out the escalation compensation payable on the labour component.

(viii) In the event the price of material and/or wages of labour required for execution of the work decrease/s, there shall be a downward adjustment of the cost of work so that such price of materials and/or wages of labour shall be deductible form the cost of work under this contract and in this regard the formula herein before stated under this clause 10(CC) shall mutatis mutan dis apply, provided that.

a) No such adjustment for the decrease in the period of materials and/or wages of labour afore mentioned would be made in case of contracts in which the stipulated period of completion of the work is equal to or less than the time as specified in schedule 'F' .

b) The Engineer -in-Charge shall otherwise be entitled to lay down the procedure by which the provision of this sub -clause shall be implemented from time to time and the decision of the Engineer -in-Charge in this behalf shall be final and binding on the contractor.

(ix) Provided always that :

(a) Where provision s of clause 10 CC are applicable , provisions of clause 10C will not be applicable.

(b) Where provisions of clause 10CC are not applicable, provisions of clause 10C will become applicable.

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Dismantled material - Corporation Property

CLAUSE 10D . 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 the Corporation according to the instruction in writing issued by the Engineer -in-Charge

Work to be executed in accordance with specifications drawings order, etc.

CLAUSE 11 . The Contractor shall execute the whole and every part of the work in the most substantial and workman like manner both as regards material and otherwise in every respect in strict accordance with the specifications. The contractor shall also conform exactly, fully and faithfully to the designs , drawings and instruction 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 agreement.

The contractor shall comply with the provision 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 exec ution 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 .

Deviations/ Variations Extent and Pricing

CLAUSE 12 The Engineer -in-charge shall have power (i) to make alteration in, omissions from, additions to; or substitutions for the original specifications, drawings, designs and instructions that may appear to h im to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non -availability of a portion of the site or 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 from part of the contract as if originally provided therein and any altered, additional or substituted work which the c ontractor may be directed to do in 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.

The completi on cost of any agreement for Maintenance works including works of upgradation, aesthetic, special repair, addition, alteration shall not exceed 1.25 times of Tendered amount.

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 v alue plus

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ii) 25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the Engineer -in -Charge.

Clause 12.2

Deviation, Extra Item and Pricing

A. For Project and original works:

In the case of extra item (s) (items that are completely new, and are in addition to the items contained in the contract), the contractor may within 15 days of receipt of order or occurrence of the items claim rates, supported by proper analysis, for the work and Engine er -in -Charge shall within one month of receipt of claims supported by analysis, after giving consideration to the analysis of the rates submitt ed by the contractor, determine the rates on the basis of market rates and the contractor shall be paid in accord ance with the rates so determined.

B. For Maintenance works including works of upgradation, aesthetic, special repair, addition/alteration:

In the case of Extra Item(s) being the schedule items (Delhi Schedule of Rates items), these shall be paid as per t he schedule rate plus cost index (at the time of tender) plus/minus percentage above/below quoted contract amount.

Payment of Extra items in case of non -schedule items (Non -DSR items) shall be made as per the prevailing market rate.

Deviation, Substitut ed Items:

A . For Project and original works:

In the 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 d etermined 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 s hall be the rate for the agreement item (to be substituted) so increased to the extent of 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 l ess 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 difference between the market rates o f substituted item and the agreement item (to be substituted).

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B. For Maintenance works including works of upgradation, aesthetic, special repair, addition/alteration:

In the case of Substitute Item(s) being the schedule items (Delhi Schedule of Ra tes items), these shall be paid as per the schedule rate plus cost index (at the time of tender) plus/minus percentage above/below quoted contract amount.

Payment of Substitute items in case of non -schedule items (Non -DSR items) shall be made as per the p revailing market rate.

Deviation, Deviated quantities, Pricing:

A. For Project and original works:

In the case of contract items, substituted items, contract – cum - substituted items which exceeds the limit laid down in Schedule 'F', the contractor may wi thin 15 days of receipt of order or occurrence of the excess claim revision of the rates, supported by proper analysis, for the work in excess of the above mentioned limits provided that if the rates so claimed are in excess of the rates specified in the s chedule of quantities, the Engineer -in-Charge shall within one month of receipt of 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 th e contractor shall be paid in accordance with the rates so determined.

B. For Maintenance works including works of upgradation, aesthetic, special repair, addition/alteration:

In the case of contract items, which exceed the limits laid down in Schedule F, the contractor shall be paid rates specified in the schedule of quantities.

Clause 12.3 :

A. For Project and original works:

The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work in excess of the lim its 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 and reply received from him within fifteen days of the receipt of the notic e, 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.

B. For Maintenance works including works of upgradation, aesthetic, special repair, addition/alteration.

In c ase of decrease in the rates prevailing in the market of items for the work in excess of the limits laid down in Schedule F, the Engineer -in-charges shall after giving notice to the contractor within one month of occurrence of the excess and after taking i nto consideration and 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.

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12.4 : The co ntractor shall send to the Engineer -in-Charge once every three months an upto date account giving complete details of all claims for additional payments to which the contractor may consider himself entitled and of all additional work ordered by the Enginee r-in-Charge which he has executed during the preceding quarter failing which the contractor shall be deemed to have waived his right. However, the EXECUTIVE ENGINEER may authorise consideration of such claims on merits.

12.5 : For the purpose of operation of Schedule 'F', the following works shall be treated as works relating to foundation unless and otherwise defined in the contract:

i) For Buildings: All works up to 1.2 metres above ground level or up to floor 1 level whichever is lower.

ii) For abut ments, piers and well steining: All works up to 1.2 m above the bed level.

iii) For retaining walls, wing walls, compound walls, chimneys, overhead reservoirs/tanks and other elevated structures: All works up to 1.2 m above the ground level.

iv) For rese rvoirs/tanks (other than overhead reservoirs/tanks) : All works up to 1.2m above the ground level.

v) For basement: All works up to 1.2m above ground level or up to floor 1 level whichever is lower.

vi) For Roads: All items of excavations and filling incl uding treatment of sub base.

12.6 . Any operation incidental to or necessarily has to be in contemplation of tenderer while filing tender, or necessary for proper execution of the item included in the Schedule of quantities or in the schedule of rates ment ioned 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. Not hing extra shall be admissible for such operations.

Foreclosure of contract due to Abandon - ment or Reduction in Scope of Work

CLAUSE 13. If at any time after the acceptance of the tender Corporation shall decide to abandon or reduce the scope of the work s for any reason whatsoever and hence not require the whole or any part of the works to be carried out, the Engineer -in-Charge shall give notice in writing to that effect to the contractor and the contractor shall act accordingly in the matter. The contra ctor 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 works in full but which he did not derive in consequence of the foreclosure of the whol e 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 utilised on the work to the full extent in view of the foreclosure.

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i) 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.

ii) Corporation shall have the option to take over contractor's material 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 contractor doest not desire to retain. For materials taken over or to be taken over by Corporation cost of such materials as detailed by Engineer-in-Charge shall be paid. The cost shall, however, take into account purchase price, cost of transportation and deterioration or damage which may have been caused to materials whilst in the custody of the contractor.

iii) If any materials supplied by Corporation are rendered surplus, the same except normal wastage shall be returned by the contractor to Corporation at rates not exceeding those at which these were originally issued less allowance for any deterioration or damage which may have been caused whilst the materials were in the custody of the contractor. In addition, cost of transporting such materials from site to Corporation stores, if so required by Corporation shall be paid.

iv) Reasonable compensation for transfer of T&P from site to contractor's permanent stores or to his other works, whichever is less. If T&P are not transported to either of the said places, no cost of transportation shall be payable.

v) Reasonable compensation for repatriation of contractor's site staff and imported labour to the extent necessary.

The contractor shall, if required by the Engineer-in-Charge furnish to him books of account, wage books, time sheets and other relevant documents and evidence as may be necessary to enable him to certify the reasonable amount payable under this condition.

The reasonable amount of items on (i), (iv) and (v) above shall not be in excess of 2% of the cost of the work remaining incomplete on the dates 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.

CLAUSE 14.

Carrying out part work at risk & cost of contractor.

If contractor :

(i) 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

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(ii) Commits default in complying with any of the terms and conditions of the c ontract 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

(iii) Fails to complete the work(s) or items of work with individual dates of completion, on or before the date(s) so de ter mined, and does not complete them within th e period speci fied in the notice given in writing in that behalf by the Engineer -in -Charge.

The Engineer -in -charge without invoking action under clause 3 may, without prejudice to any other right or remedy against the contractor which have either accrued or accrue th ereafter to Corporation , by a notice in writing to take the part work/part incomplete work of any items(s) out of his hands and shall have powers to:

(a) Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; a nd /or

(b) Carry out the part work/ part incomplete work of any items(s) by any means at the risk and cost of the contractor.

The Engineer -in -charge shall determine the amount, if any, is recoverable from the contractor for completion of the part work/part i ncomplete work of any items(s) taken out of his hands and execute at the risk and cost of the contractor, the liability of contractor on account of loss or damage suffe red by Corporation because of action under this clause shall not exceed 10% of the tende red value of the work.

In determining the amount, credit shall be given to the contractor with the value of work done in all respect in the same manner and at the same rate as if it had been carried out by the original contractor under the terms of his c ontract, the value of contractor's materials taken over and incorporated in the work and use of plant and machinery belonging to the contractor. The certificate of the Engineer -in -charge as to the value of work done shall be final and conclusive against t he contractor provide always that action under this clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the Corporation are less than the amount payable to the contractor at his agree ment rates, the difference shall not be payable to the contractor.

Any excess expenditure incurred or to be incurred by Corporation in completing the part work/part incomplete work of any item(s) or the excess loss of damages suffered or may be suffered by Corporation as aforesaid after allowing such credit shall without prejudice to any other right or remedy available to Corporation in law or as per agreement be recovered from any money due to the contractor on any account, and if such money is insuffi cient, the contractor shall be called upon in writing and shall be liable to pay the same within 30 days.

If the contractor fails to pay the required sum within the aforesaid period of 30 days, the Engineer -in -charge shall have the right to sell any or all of the contractors' unused materials, constructional plant, implements, temporary building at site etc. and adjust the proceeds of sale thereof towards the dues recoverable from the contractor under the contract and if thereafter there

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remains any balance outstanding, it shall be recovered in accordance with the provisions of the contract.

In the event of above course being adopted by the Engineer -in -charge, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advance on any account or with a view to the execution of the work or the performance of the contract.

Suspension of Work

CLAUSE 15. i) The contractor shall, on receipt of the order in writing of the Engineer -in -Charge (whose decision shall be final and binding on the contractor) suspend the progress of the works or any part thereof for such time and in such manner as the Engineer -in -Charge may consider necessary so as not to cause any damage or injury to the work already done or endanger the safety thereof for any of the following reasons:

a. on account of any default on the part of the contractor or;
b. for proper execution of the works or part thereof for reasons other than the default of the contractor; or
c. for safety of the works or part thereof.

The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Engineer -in -Charge.

ii) If the suspension is ordered for reasons (b) and (c) in sub -para (i) above:

a) the contractor shall be entitled to an extension of time equal to the period of every such suspension PLUS 25%, for completion of the item or group of items of work for which a separate period of completion is specified in the contract and of which the suspended work forms a part, and;

b) If the total period of all such suspensions in respect of an item or group of items of work for which a separate period of completion is specified in the contract exceeds thirty days, the contractor shall, in addition, be entitled to such compensation as the Engineer -in -Charge may consider reasonable in respect of salaries and/ or wages paid by the contractor to his employees and labour at site, remaining idle during the period of suspension, adding thereto 2% to cover indirect expenses of the contractor. Provided the contractor submits his claim supported by details to the Engineer -in -Charge within fifteen days of the expiry of the period of 30 days.

ii) If the works or part thereof is suspended on the orders of the Engineer -in -Charge for more than three months at a time, except when suspension is ordered for reason (a) in sub -para (i) above, the contractor may after receipt of such order serve a written notice on the Engineer -in -Charge requiring permission within fifteen days from receipt by the Engineer -in -Charge of the said notice, to proceed with the work or part thereof in regard to which progress has been suspended and if such permission is not granted within that time, the

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contractor, if he intends to treat the suspension, where it affects only a part of the works as an omission of such part by Corporation or where it affects whole of the works, as an aba ndonment of the works by Corporation, shall within ten days of expiry of such period of 15 days give notice in writing of his intention to the Engineer -in-Charge. In the event of the contractor treating the suspension as an abandonment of the contract by Corporation, he shall have no claim to payment of any compensation on account of any profit or advantage which he might have derived from the execution of the work in full but which he could not derive inconsequence of the abandonment. He shall, however, be entitled to such compensation, as the Engineer -in-Charge may consider reasonable, in respect of salaries and / or wages paid by him to his employees and labour at site, remaining idle in consequence adding to the total thereof 2% to cover indirect expen ses of the contractor provided the contractor submits his claim supported by details to the Engineer -in-Charge within 30 days of the expiry of the period of 3 months.

Provide further, that the contractor shall not be entitled to claim any compensation fro m Corporation for the loss suffered by him on account of delay by Corporation in the supply of materials in Schedule 'B' where such delay is covered by difficulties relating to the supply of wagons, force majeure including non -allotment of such materials b y controlling authorities, acts of God, acts of enemies of the State/Country or any reasonable cause beyond the control of the Corporation.

Action in case work not done as per specificatio ns.

Clause 16 :All works under or in course of execution or execute d in pursuance of the contract shall at all times be open and accessible to the inspection and supervision of the Engineer -In-charge, his authorised subordinates in charge of the work and all the superior officers, officer of the Vigilance Division of the Corporation and Chief Technical Examiners Organisation of the Central Vigilance Commission and the contractor shall, at all times during the usual working hours and at all other times at which reasonable notice of the visit of such officers has been given t o the contractor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing, present for that purpose. Orders given to the Contractor's agent 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 authorised subordinates incharge of the work or to the Chief Engineer -in-Charge or his subordinate Officer, Officer of Vigilance Division of the Corporation and Chief Technical Examiners Organisation of Central Vigilance Commission 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 one year 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

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Engineer -in -Charge in is demand aforesaid, then the contractor s hall 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 competent authority may consider reasonable during the preparation of on account bills or final bill if the item is so acceptable without detriment to the safely 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 and cost of the contractor. Decision of the Engineer -in -Charge to be conveyed in writing in respe ct of the same will be final and binding on the contractor.

Contractor Liable for Damages, defects during maintenanc e period.

CLAUSE 17 . If the contractor or his working people or servants shall break, deface, injure of destroy any part of building in w hich they may. be working, or any building, road curb, 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 execut ed, or if any damage shall happen to the work while in progress, from any cause whatever or any defect shrinkage or other faults appear in the work within twelve months (6 months in the case of work costing Rs. Ten Lakh and below except road work) after a certificate final or otherwise of its completion shall have been given by the Chief Engineer/ Superintending Engineer/ EXECUTIVE ENGINEER as the case may be as aforesaid arising out of defect or improper materials or workmanship the contractor shall upon a 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 any time thereafter ma y 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 12 month (6 month in case of work costing R s. Ten lakhs and below except road work) after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed which ever is later. Provided that in case of road work if in the opinion of the Eng ineer -in -charge, half of the security deposit is sufficient to meet all the liabilities of the contractor under this contract, half of the security deposit will be refundable after six months and the remaining half after twelve months of the issue of the s aid certificate of completion or till the final bills 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 d ate of final payment or within one month from the date of completion of the maintenance contract whichever is earlier.

Contractor to supply tools and plant etc.

CLAUSE 18 . The contractor shall provid e at his own cost all material (except such special material, if any as may in accordance with the contract be supplied from the Engineer -in -Charge's stores), plant, tools, appliances, implements, ladders cordage, tackle, scaffolding and temporary works re quired for the proper execution of the work. whether original, altered or substituted and whether included in the specification or other document forming part of the

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contract or referred to in these conditions or not, or which may be necessary fo r the purpose of satisfying or complying with the requirement 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 w ork. 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 of the measurement of examination at any time and from ti me 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 fro m his security deposit or the proceeds of sale thereof, or of a sufficient portions thereof.

Recovery of compensati on paid to workman

CLAUSE 18A . In every case in which by virtue of the provision sub Section (1) of Section 12, of the Workman's Compensation Act, 1923, the Corporation is obliged to pay compensation to a 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 sec tion 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 Corporat ion shall not be bound to contest any claim made against it under sub Section (1) 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.

Ensuring payment and amenities to workers if contractor fail

CLAUSE 18B . In every case in which by virtue of the provisions of the Contrac t 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 work or to incur an y 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 Contractor's Labour Regulations, or under the rules framed by Government from time to time for the pro tection of health and sanitary arrangements for workers employed by Central Warehousing Corporation 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 under Section 20 Sub Section (2) and Section 21 Sub -section (4) of the Contract Labour (Regulation and Abolition) Act 1970 Corporation shall be at liberty to recover such amount or any part thereof by deducting it from the se curity deposit or from any sum due by Corporation to the contractor whether under this contract or otherwise. Corporation shall not be bound to contest any claim made against it under Section 20, Sub Section (1) and Section 21, sub Section (4) of the said Act except on the written request 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.

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Labour Laws to be complied by the contractor

CLAUSE 19 . The contractor shall obtain a valid licence unde r 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 licence until the completion of the work. The contractor shall also abide by the provisions of the Child Labour (Prohibition & Regulation) Act, 1986.

The contractor shall also comply with the provision of the building and other Construction Workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and othe r 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 labourer below the age of four teen years s hall be employed on the work.

Payment of wages.

CLAUSE 19B. (i) The contractor shall pay to labour employed by him either directly or through subcontractors wages not less than fair wages as defined in the C.P.W.D. 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 co ntrary, 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 directl y 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 C.P.W.D. Contractor's Labour Regulations made by Government from time to time in regard to p ayment 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 wages 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 and Abolition) Act 1970 and the Contract Labour (Regulation and Abolition) Central Rules 1971, wherever applicable.

(iv) a.) The Engineer -in -Charg e concerned shall have the right to deduct from the moneys 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 ben efit of the 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.

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b) Under the provision of Minimum Wages (Central) Rules 1950, the contactor is bound to allow to the labour 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 su m 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. In the case of Union Territory of Delhi, however, as the all-inclusive minimum daily wages fixed under Notification of Delhi Administration No. F 12 (159) MWO/DAB/43884 -91 dated 31.12.79 as amended from time to time are inclusive of wages for the week days of rest, question of extra payment for weekly holiday wo uld 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 Contract Labour (Regulation and Abolition) Act 1970 or the modifications thereof or any other laws relating thereto and the rules made there under 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 Central Public Work Department Contract 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, shall be paid by the contractor to the workmen directly with out 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 co mmission or otherwise is deducted or recovered by the Jamadar from the wage of workmen.

CLAUSE 19C . 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 Safety Code 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 penalty of Rs.200 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 . The contractor shall submit, by the 4th and 19th of every month, to the Engineer -in-Charge a true statement showing, in respect of the second half of the preceding month and the first half to the current month respectively.

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[1] the numbe r of labourers employed by him on the work.

[2] their working hours.

[3] the wages paid to them.

[4] the accident that occurred during the said fortnight showing the circumstances under which they happened and the extent of damage and injury caused by them, and

[5] th e 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 not exceeding Rs.200 for each default or materially incorrect statement. The 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 . 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 the Corporation from time to time for the protection of health and sanitary arrangements for workers employed by the Central Warehousing Corporation and its contractors.

CLAUSE 19F . Leave and pay during leave shall be regulated as follows:

1. Leave:

i. in case of delivery, maternity leave not exceeding 8 weeks, 4 weeks upto and including the day of del ivery and 4 weeks following that day.

ii. in the case of miscarriage -upto 3 weeks from the date of miscarriage.

2. Pay :

[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 the total wages earned on the days when full time work was done during a period of 3 months immediately preceding the date on which she gives notice that she expect to be confined or at the rate of Rupee one only a day whichever is greater.

[ii] in 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 3 months immediately preceding the date of such miscarriage.

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3. Conditions far the grant of Maternity Leave :

No maternity leave benefit shall be admissible to a woman unless she has been employed for a total period of not less than 6 months immediately preceding the date on which she proceeds on leave.

4. The contractor shall maintain a register of Maternity (Ben efit) in the Prescribed Form as shown at Appendix I & II and the same shall be kept at the place of work.

CLAUSE 19G. In the event of the contractor(s) committing a default or breach of any of the provision of the Central Public Work Department 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 not exceeding Rs. 200 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 Rs. 200 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. The decision of the Engineer -in-Charge shall be final and binding on the parties.

Should it appear to the Engineer -in-Charge that the contractor(s) is/are not properly observing and complying with the provisions of C.P.W.D. Contractor's Labour Regulations and Model Rules and the prov isions of the Contract Labour (Regulations and Abolition) Act 1970 and the Contract Labour (R&A) Central Rules 1971 for the protection of health and sanitary arrangements for work -people employed by the contractor(s) (hereinafter referred as "the said Rule ") the Engineer -in-Charge shall have power to give notice in writing to the contractor(s) requiring that the said Rule be complied with and the amenities prescribed therein be provided to the work -people within a reasonable time to be specified in the noti ce 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 and 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 connectio n 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 standard, 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, th e 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 . The contractor(s) shall at his/their own cost provide his/their labour wit h 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.

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1 (a). The minimum height of each hut at the eaves shall be 2.10 m. (7 ft) and the floor area to be provided will be at the rate of 2.7 sq. m (30 sq. ft) for each member of the worker's family staying with the labourer.

(b)The contractor(s) shall in addition construct suitable cooking places having a minimum area of 1.80 mx 1.50 m (6'x5') adjacent to the hut for each family.

(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 and ur inal being provided for women.

(d) The contractor(s) shall construct sufficient number of bathing & washing places, one unit for every 25 persons residing in the camp. These bathing and washing places shall be suitably screened.

2 (a) All the huts shall have walls of sun -dried or burnt bricks laid in mud mortar or other suitable local materials as may be approved by the Engineer -in - Charge. In case of sun -dried brick, the wall should be plastered with mud gobri on both sides. The floor may be katcha but pl astered with mud gobri and shall be at least 15 cm (6") above the surrounding ground. The roofs shall be laid with thatched or any other materials as may be approved by the Engineer -in -Charge and the contractor shall ensure that throughout the period of th eir occupation the roofs remain water -tight.

(b) The contractor(s) shall provide each hut with proper ventilation.

(c) All doors, windows, and ventilators shall be provided with suitable leaves for security purposes.

(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.

3. Water Supply — The contractor (s) shall provide adequate supply of water for the use of labourers. The provisions shall not be less than 2 gallons of pure and whole -some water per head per day for drinking purposes and 3 gallons of clean water per head per day for bathing and washing pu rposes. 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 also at his/their own cost make arrangements for lay ing pipe lines for water supply to his/their labour camp from the existing mains wherever available and shall pay all fees and charges therefor.

4. The site selected for the camp shall be high ground, removed from jungle.

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5. Disposal of Excre ta — The contractor(s) shall make necessary arrangement for the disposal of excreta from the latrines by trenching or incineration, which shall be according to the requirements laid down by the Local Health Authorities. If trenching or incineration is not al lowed, the contractor(s) shall make arrangements for the removal of the excreta through 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 t he excreta. All charges on this account shall be borne by the contractor and paid direct by him to the Municipal Committee/authority. The contractor shall provide one sweeper for every 8 seats in case of dry system.

6. Drainage - The contractor(s) shall p rovide efficient arrangements for draining away sullage water so as to keep the camp neat and tidy.

7. The contractor(s) shall make necessary arrangements for keeping the camp area sufficiently lighted to avoid accidents to the workers.

8. Sanitation — T he contractor(s) shall make arrangements for conservancy and sanitation in the labour camps according to the rules of the Local Public Health and Medical Authorities.

CLAUSE 19 - I. The Engineer -in - Charge may require the contractor to dismiss or remove from the site of the work any person or persons in the contractors' employ upon the work who may be incompetent or misconduct himself and the contractor shall forthwith comply with such requirement.

CLAUSE 19 - J. It shall be the responsibility of the contract or to see that the building under construction is not occupied by anybody unauthorisedly during construction and to hand over the Engineer -in - Charge vacant possession of complete building. If such building though completed, is occupied illegally, then the Engineer -in - Charge will 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 delay in completion and for such delay a levy upto 5% of the tendered value of work may be imposed by the Chief Engineer whose decision shall be final both with regard to justifications and quantum and be binding on the contractor.

However, the Engineer -in - Charge through a notice may require the contractor to remove the illegal occupation any time on or before construction and delivery.

CLAUSE 19 - K. :

Employment of skilled/semi skilled workers

The contractor shall, at all stages of works, deploy skilled/semi -skilled tradesmen who are qualified and possess certificates in particular trade fro m CPWD Training Institute/Industrial Training Institute/National Institute of Construction Management & Research (NICMAR) / National Academy of Construction, CIDC or any other similar reputed and recognised institute managed/certified by State /Central Go vt. The 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. The 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 recognised institute to Engineer -in - charge for approval. Notwithstanding such approval, if

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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 b e paid by contractor @ Rs.100/ - per such tradesmen 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.5.00 crore.

Minimum wages Act to be complied with

CLAUSE 20 The contractor shall comply with all the provisions of the Minimum Wages Act. 19 48 and Contract Labour (Regulation and Abolition) Act 1970, amended from time to time and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time.

Works not to be sublet. Action in case of insolvency.

CLAUSE 21. "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 to do so, or become insolvent or commence any insolvency proc eedings or make any composition with his creditors or attempt to do, so or if any bribe, gratuity, gift loan, per - requisite, reward or advantage' pecuniary or otherwise, shall either directly or indirectly, be given promised or offered by the contractor, o r 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 Central Warehousing Corporation shall have power to adopt the course specified in clause 3 hereof in the interest of Corporation and in the event of such course being adopted the consequences specified in the said Clause 3 shall ensue."

CLAUSE 22. 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.

Changes in firms constitution to be intimated

CLAUSE 23. 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 likewise be obtained before the contractor enters into any partnership agreement where under the part nership firm would have the right to carry out the work 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 consequence shall ensure as provided in the said Clause 21.

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CLAUSE 24 . 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.

Settlement of disputes & Arbitration

CLAUSE 25 . Except where otherwise provided in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions herein before mentioned and as to the quality of workmanship of 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, drawing, 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 prog ress of the work or after the cancellation, termination, completion or abandonment thereof shall be referred to the sole arbitration of the person appointed by the Managing Director, Central Warehousing Corporation at the time of dispute or if there be no Managing Director, Central Warehousing Corporation, the Administrative Head of the said Central Warehousing Corporation at the time of such appointment.

There will be no objection to any such appointment that the arbitrator so appointed is an employee/ retired employee of the Corporation that he had to deal with the matters to which the contract relates and that in course of his duties as Corporation employee, he had expressed views on allow any of the matters in the dispute or difference.

If the arb itrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever or is heavenly abode, another sole arbitrator shall be appointed in the manner aforesaid. Such person shall be entitled to pro ceed with the reference from the stage at which it was left by his predecessor. It is also a term of this contract that no person other than a person appointed by the Managing Director or Administrative Head of the Central Warehousing Corporation as afore said should act as an arbitrator and if for any reason that is not possible, the matter is not to be referred to arbitration at all.

It is a term of this contract that the party invoking arbitration shall give a list of disputes, with amounts claimed in r espect of each such dispute along with the notice for appointment of arbitrator.

It is also a term of this contract that if the contractor does not make any demand for appointment of arbitrator in respect of any claims in writing as aforesaid within 120 da ys of receiving the intimation from the Engineer - in -Charge that the final bill is ready for payment, the claim of the contractor shall be deemed to have been waived and absolutely barred and the Corporation shall be discharged and released of all liabiliti es under the contract in respect of these claims.

The arbitration subject to above, shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996 (26 of 1996) or any statutory modifications or re -enactment thereof and t he rules made there under and for the time being in force shall apply to the arbitration proceeding under this clause.

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It is also a term of this contract that the arbitrator shall adjudicate only on such disputes as are referred to him by the app ointing authority and give award against each dispute and claim referred to him and in all cases, the arbitrator shall give reasons and would publish the speaking award against each dispute and claim referred to him.

It is also a term of the contract that if any fees are payable to the arbitrator these shall be paid equally by both the parties.

It is also a term of the contract that the arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties calling them to submit their statement of claims and counter statement of claim. The venue of the arbitration shall be such place as may be fixed by the arbitrator in his sole discretion. The fees, if any, of the arbitrator shall, if required to be paid before the a ward is made and published, be paid half and half by each of the parties. The cost of the reference and of the award (including the fees, if any, of the arbitrator) shall be in the discretion of the arbitrator who may direct to any by whom and in what man ner, such costs or any part thereof shall be paid and fix or settle the amount of costs to be so paid.

Contractor to indemnify Corporation against patent rights

CLAUSE 26. 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 even t of any claims made under or action brought against the Corporation in respect of any such matter 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 cond uct any litigation that may arise there from. Provided that the contractor shall not be liable to indemnify the Central Warehousing Corporation if the infringement of the patent or design or any alleged patent or design right is the direct result of an ord er passed by the Engineer -in -Charge in this behalf.

Lump sum provisions in tender

CLAUSE 27. 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 item s 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 -Cha rge 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 t he clause.

Action where no specifications are specified

CLAUSE 28 . In the case of any class of work for which there is no such specification as referred to in Clause 11, such work shall b e 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

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Withholding and lien in respect of sums due from contractor:

per 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(i). Whenever any claim or clai ms for payment of a, sum of money arises out of or under the contract or against the contractor, the Engineer -in -Charge or 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 a ny 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 adjud ication 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 o r the Corporation or any contracting person through the Engineer -in -charge pending finalisation 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 arbitratio n clause) or 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 withholding or retention under the lien referred to above and duly notified as such to t he 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 fin al bill 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 contr actor 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 underpayment shall be duly paid by the Corporation to the contractor, with out any interest thereon whatsoever.

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Provided that the Corporation shall not be entitled to recover any sum overpaid, nor the contractor shall be entitled to payments of any sum paid short where such payment has been agreed upon between the EXECUTIVE ENGINEER on the one hand and the contractor on the other under any term of the contract permitting payment for work after assessment by the EXECUTIVE ENGINEER

Lien in respect of claims in other contracts

CLAUSE 29A.: Any sum of money due and payable to the contractor (including the security deposit returnable to him) under the contract may be withheld or retained by way of lien by the Engineer-in-Charge or the Corporation or any other contracting person or persons through Engineer-in-charge against any claim of the Engineer-in-charge or Corporation or such other person or persons in respect of payment of a sum of money arising out of or under any other contract made by the contractor with the Engineer-in-charge or 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 arbitrator 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.

Employment of co al mining or controlled area labour not permissible.

CLAUSE 30. 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 k.m. (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 the contractors from area, from which import is permitted.

Where ceiling price for imported labour has been fixed by State or Regional Labour Committees not more than that ceiling price shall be paid to the labour by the contractor.

The contractor shall immediately remove any labourer who may be pointed out by the Engineer-in-Charge as being a coal min ing 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 control led area labourer and number of days for which they worked shall be final and 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 w ithin the meaning of the exception of Section 74 of Indian Contract Act, 1872.

Explanation —"Controlled Area" means the following areas:

Districts of Dhanbad, Hazaribagh, Jamatra Sub-Division of SanthalPargana, Commissionery, Districts of Bankuara, BirbhumB urdwan, (West Bengal) Districts of Bilaspur, (Chhattisgarh).

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Any other area, which may be declared as 'Controlled Area' by or with the approval of the Central Government.

Unfiltered water supply

CLAUSE 31 . 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 wat er 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 and cost of contractor(s) if the arrangements mad e by the contractor(s) for procurement of water are in the opinion of the Engineer -in-Charge, unsatisfactory.

Department - ally water supply, if available .

CLAUSE 31 A . Water if available may be supplied to the contractor by the Corporation subject to the following condition.

(i) Water charges @ 1% shall be recovered on gross amount of the work done.

(ii) The contractor(s) shall make his/their own arrangements of water connection and the laying of pipe lines from the existing mains of source of supply.

(iii) The Corporation do not guarantee to maintain uninterrupted supply of water and it will be incumbent, on the contractor(s) to make alternative arrangements for water at his/their own cost in the event of any temporary break down in the Corporation water mains so that the progress of his/their work is not held up f or want of water. No claim of damages or refund of water charges will be entertained on account of such break down.

Alternate water arrange - ments.

CLAUSE 32. (i) Where there is no piped water supply arrangement and the water is taken by the contractor from the wells or hand pumps constr ucted by the Corporation no charge shall be recovered from the contractor on that account. The contractor shall however, draw water at such hours of the day that it does not interfere with the normal use for which the hand pumps and wells are intended. He will also be responsible for all damage and abnormal repairs arising out of his use, the cost of which shall be recoverable from him. The Engineer -in-Charge shall be the final authority to determine the cost recoverable from the contractor on this account and his decision shall be binding on the contractor.

(ii) The contractor shall be allowed to construct temporary wells in the 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 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 a ccident or damage caused due to the construction and subsequent maintenance of the wells and shall restore the ground to its original condition after the wells are dismantled on completion of work.

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Return of surplus material

CLAUSE 33. Notwithst anding anything contained to the contrary in the contract, where any materials for the execution of the contract are procured with the assistance of the Corporation either by issue from the Corporation stocks or purchase made under orders or permits or lic ences issued by the Corporation the contractor shall hold the said materials economically and solely for the purposes of the contract and not dispose of them without the written permission of the Corporation and return, if required by the Engineer -in-Charg e, all surplus or unserviceable materials that may be left with him after the completion of the contract or at its termination for any reason whatsoever on being paid or credited such price as the Engineer -in-Charge shall determine having due regard to the condition of the materials. The price allowed to the contractor however shall not exceed the amount charged to him excluding the element of storage charge. The decision of the Engineer -in-Charge shall be final and conclusive. In the event of breach of the aforesaid condition the contractor shall in addition to throwing himself open to action for contravention of the term of the licences or permit and /or for criminal breach of trust, be liable to the Corporation for all moneys, advantages or profits result ing of which in the usual course would have resulted to him by reason of such breach.

CLAUSE 34:

Hire of Plant and Machinery

(i) The contractor shall arrange at his own expense all tools, plants, machinery and equipment (herein after referred to as T & P) required for execution of the work except for the plant and machinery listed in schedule C and stipulated for issue to the contractor. If the contractor requires any item of T & P on hire from T & P available with the Corporation over and above the T & P stipulated for issue, the Corporation will, if such item is available, hire it to the Contractor at the rates to be agreed upon between him and the Engineer -in-charge. In such a case all the conditions hereunder for issue of T & P shall also be appl icable to such T & P as is agreed to be issued.

(ii) Plant and machinery when supplied on hire charges shown in schedule 'C' shall be made over and taken back at the Corporation's equipment yard/shed shown in schedule 'C' and the contractor shall bear the cost of carriage from the place of issue to the site of work and back. The contractor shall be responsible to return the plant and machinery with condition in which it was handed over to him and he shall be responsible for all damage cost to the said pla nt and machinery at the site of work or elsewhere in operation and other wise during transit including damage to or loss of plant and for all losses due to his failure to return the same soon after the completion of the work for which it was issued. The E ngineer -in-charge shall be the sole judge to determine the liability of the contractor and its extent in this regard and his decision shall be final and binding on the contractor.

(iii) The plant and machinery as stipulated above will be issued as and when available and if required by the contractor. The contractor shall arrange his programme of work according to the availability of the plant and machinery and no claim, whatsoever, will be entertained from him for any delay in supply by the Corporation.

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(iv) The hire charges shall be recovered at the prescribed rates from and inclusive of the date the plant and machinery made over upto and inclusive of the date of the return in good order even though the same may not have been working for any cause except major break down due to no fault of the contractor or faulty use requiring more than three working days continuously (excluding intervening holidays and Sundays) for bringing the plant in order. The contractor shall immediately intimate in writing to the Engineer -in-charge when any plant or machinery gets out of order requiring major repairs as aforesaid. The Engineer -in-charge shall record the date and time of receipt of such intimation in the log sheet of the plant or machinery. Based on this i f the break down before lunch period or major break down will be computed considering half a day break down on the date of the complaint. If the break down occurs in the post lunch period of major break down will be computed starting from the next working day. In case of any dispute under this clause, the decision of Engineer -in-charge shall be final and binding on the contractor.

(v)The hire charges shown above are for each day of eight hours (inclusive of one hour lunch break) or part thereof.

(vi) Hi re charges will include service of operating staff as required and also supply of lubricating oil and stores for cleaning purposes. Power fuel of approved type, fire wood, kerosene oil etc. for running the plant and machinery and also the full time chowki dar for guarding the plant and machinery against any loss or damage shall be arranged by the contractor who shall be fully responsible for the safeguard and security of plant and machinery. The contractor shall on or before the supply of plant and machine ry sign an agreement in indemnifying the Corporation against any loss or damage caused to the plant and machinery either during transit or at site of work.

(vii) Ordinarily, no plant and machinery shall work for more than 8 hours a day inclusive of one hou r lunch break. In case of an urgent work, however, the Engineer -in-Charge may, at his discretion, allow the plant and machinery to be worked for more than normal period of 8 hours a day. In that case the hourly hire charges for overtime to be borne by th e contractor shall be 50% more than the normal proportionate hourly charges (1/8th of the daily charges) subject to a minimum of half days's normal charges on any particular day. For working out hire charges for over time a period of half and hour and abo ve will be charged as one hour and a period of less than half an hour will be ignored.

(viii) The contractor shall release the plant and machinery every seventh day for periodical servicing and / or wash out which may take about three to four hours or mor e. Hire charges for full day shall be recovered from the contractor for the day of servicing/ wash out irrespective of the period employed in servicing.

(ix) The plant and machinery once issued to the contractor shall not be returned by him on account of lack of arrangements of labour and materials, etc. on his part, the same will be returned only when they are required for major repairs or when in the opinion of the Engineer -in-Charge the work or a portion of work for which the same was issued is complet ed.

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(x) Log Book for recording the hours of daily work for each of the plant and machinery supplied to the contractor will be maintained by the Corporation and will be countersigned by the contractor or his authorised agent daily. In case the cont ractor contests the correctness of the entries and / or fails to sign the Log Book, the decision of the Engineer -in-Charge shall be final and binding on him. Hire charges will be calculated according to the entries in the Log Book and will be binding on t he contractor. Recovery on account of hire charges for road rollers shall be made for the minimum number of days worked out on the assumption that a roller can consolidate per day and maximum quantity of materials or area surfacing as noted against each i n the annexed statement (see attached annexure).

(xi) In the case of concrete mixers, the contractors shall arrange to get the hopper cleaned and drum washed at the close of the work each day or each occasion.

a) In case rollers for consolidation are em ployed by the contractor himself, log book for such rollers shall be maintained in the same manner as is done in case of Corporation rollers, maximum quantity of any items to be consolidated for each roller day shall also be same as in Annexure to Clause 3 4 (x). For less use of rollers recovery for less roller days shall be made at the stipulated issue rate.

(xii) The contractor shall be responsible to return the plant and machinery in the condition in which it was handed over to him and he shall be respo nsible for all damage caused to the said plant and machinery at the site of work or elsewhere in operation or otherwise or during transit including damage to or loss of parts, and for all losses due to his failure to return the same soon after the completi on of the work for which it was issued. The Engineer -in-Charge shall be the sole judge to determine the liability of the contractor and its extent in this regard and his decision shall be final and binding on the contractor.

(xiii) The contractor will be exempted from levy of any hire charges for the number of days he is called upon in writing by the Engineer -in-Charge to suspend execution of the work, provided Corporation's plant and machinery in question have, in fact, remained idle with the contractor because of the suspension.

(xiv) In the event of the contractor not requiring any item of plant and machinery issued by Corporation though not stipulated for issue in Schedule 'C' any time after taking delivery at the place of issue, he may return it afte r two days written notice or at any time without notice if he agrees to pay hire charges for two additional days without, in any way, affecting the right of the Engineer -in-Charge to use the said plant and machinery during the said period of two days as he likes including hiring out to a third party.

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CLAUSE 35

Conditions relating to use of asphaltic materials

(i). The contractor undertakes to make arrangements for the supervision of the work by the firm supplying the tar or bitumen used.

(ii) The contractor shall collect the total quantity of tar or bitumen required for the work as per standard formula, before the process of painting is started and shall hypothecate it to the Engineer-in-Charge. If any bitumen or tar remains unused on completion of the work on account of lesser use of materials in actual execution for reasons other than authorised changes of specification and abandonment of portion of work a corresponding deduction equivalent to the cost of unused materials as determined by the Engineer-in-Charge shall be made and the material returned to the contractors. Although the materials are hypothecated to the Corporation, the contractor undertakes the responsibility for their proper watch, safe custody and protection against all risks. The materials shall not be removed from site of work without the consent of the Engineer-in-Charge in writing.

(iii) The contractor shall be responsible for rectifying defects noticed within a year from the date of completion of the work and the portion of the security deposit relating to asphaltic work shall be refunded after the expiry of this period.

Employment of Technical Staff and employees

CLAUSE 36Contractors Superintendence, Supervision, Technical Staff & Employees

i) The Contractor shall provide all necessary superintendence during execution of the work and all along thereafter as may be necessary for proper fulfilling of the obligations under the contract.

The contractor shall immediately after receiving letter of acceptance of the tender and before commencement of the work, intimate in writing to the Engineer-in-charge, the name(s), qualifications, experience, age, address(s) and other particulars alongwith certificates, of the principal technical representative to be in charge of the work and other technical representative(s) who will be supervising the work. Minimum requirement of such technical representative(s) and their qualifications and experience shall not be lower than specified in Schedule 'F'. The Engineer-in-charge shall within 3 days of receipt of such communication intimate in writing his approval or otherwise of such a representative(s) to the contractor. Any such approval may at any time be withdrawn and in case of such withdrawal, the contractor shall appoint another such representative(s) according to the provisions of this clause. Decision of the Engineer Incharge shall be final and binding on the contractor in this respect. Such a principal technical representative and other technical representative(s) shall be appointed by the contractor soon after receipt of the approval from Engineer-in-charge and shall be available at site before start of work.

All the provisions applicable to the principal technical representative under the clause will also be applicable to other technical 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.

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Instructions given to the principal technical representative or other technical representative(s) shall be deemed to have the same forces as if these ha ve 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 work s 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 instruc tions 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 b ook 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) a nd 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 representa tive(s) **(**in the form of copy of Form -16 or CPF deduction issued to the Engineers employed by him) alongwith every account bill/final bill and shall produce evidence if at any times so required by the Engineer -in -charge.

(ii) The contractor shall provide a nd 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, o r 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.

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CLAUSE 37

Levy/Taxes payable by Contractor

i) The prices quoted are inclusive of all applicable taxes except GST. GST shall be paid extra at applicable rates subject to submission of tax invoice as per rules under GST Law.

ii) The contractor shall deposit royalty and obtain necessary permit for supply of the red bajri, stone, kankar, etc. from local authorities.

iii) 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 Government. 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.

iv) ESI and EPF contributions in respect of this contract shall be payable by the Contractor and any payment in respect of this shall be made by the contractor only and CWC shall not entertain any claim whatsoever in this respect. In case of any demand from the ESI & EPF authorities against the contractor, the same shall be deducted from their bill dues.

CLAUSE 38

Conditions for reimbursement of levy/ taxes if levied after receipt of tenders

i) All tendered rates shall be inclusive of all taxes and levies (except GST) payable under respective statutes. However, pursuant to the Constitution (46th Amendment) Act, 1982, if any further tax or levy is imposed by Statute, after the last stipulated date for the receipt of tender including extensions if any and the contractor thereupon necessarily and properly pays such taxes/ levies the contractor shall be reimbursed the amount so paid, provided such payments, if any, is not, in the opinion of the Engineer-in-Charge (whose decision shall be final and binding on the contractor) attributable to delay in execution of work within the control of the contractor.

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 duly authorised representative of the Corporation and / or the Engineer-in-Charge and further shall 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, pursuant to the Constitution (Forty Sixth Amendment) Act, 1982, give a written notice thereof to the Engineer-in-Charge that the same is given pursuant to this condition, together with all necessary information relating thereto.

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Termina tion of contract on death of contractor

CLAUSE 39 . Without prejudice to any of the rights or remedies under this contract, if the contractor dies, the Engineer -in-Charge on behalf of the Central Warehousing Corporation shall have the option of terminating the contract without compensation to the contractor

If relation working in CWC then the contractor not allowed to tender

CLAUSE 40 . The contractor shall not be permitted to tender for work in the Central Warehousing Corporation (responsible for award and execution of contracts) in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of the Chief Engineer and Assistant Engineer (both inclusive). He shall also intimate the names of person who are working with him in any capacity or 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. Any breach of t his condition by the Contractor would render him liable to be removed from the approved list of contractors of this Corporation. The contractor would also be debarred from tendering in the Corporation for five years for any breach of this condition .

Note :—By the terms "near relative" is meant wife, husband, parents and grand parents, children and grand children, brothers and sisters, uncles, aunts and cousins and their corresponding in laws.

No Engineer to work as Contractor within two years of retir ement

CLAUSE 41 . No Engineer or other officer, employed in Engineering or administrative duties, in the Central Warehousing Corporation is allowed to work as a contractor for a period of two year of his retirement from Central Warehousing Corporation servi ce without the previous permission of the Corporation. This contract is liable to be cancelled if either the contractor or any of his employee is found at any time to be such a person who had not obtained the permission of Central Warehousing Corporation a s aforesaid, before submission of the tender or engagement in the contractor's service as the case may be.

CLAUSE 42.

Return of material and recovery for excess material issued

i) After completion of the work and also at any intermediate stage in the event of non -reconciliation of materials issued, consumed and in balance (see Clause 10), theoretical quantity of materials issued by the Corporation for use in the work shall be calculated on the basis and method given hereunder: -

a) Quantity of cement & bitumen shall be calculated on the basis of quantity of cement & 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.

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b) Theoretical quantity of steel rei nforcement or structural steel sections shall be taken as the quantity required as per design or as authorised by Engineer -in-Charge including authorised lappages, chairs etc. plus 3% wastage due to cutting into pieces, such theoretical quantity being dete rmined and compared with the actual issues each diameterwise, sectionwise and categoriwise 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 requi red 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 diameterwise&categoriwise.
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'. The difference in the net quantities of material actually issued to the contractor and the theoretical quantities including such authorised vari ation, if not returned by the contractor or if not fully reconciled to the satisfaction of the Engineer -in-Charge within fifteen days of the issue of written notice by the Engineer -in-Charge to this effect shall be recovered at the rates specified in Sched ule 'F', without prejudice to the provision of the relevant conditions regarding return of materials governing the contract. Decision of Engineer -in-Charge in regard to theoretical quantities of materials, which should have been actually used as per the A nnexure of the standard schedule of rates and recovery at rates 'specified in Schedule 'F', shall be final and binding on the contractor.
For non -scheduled items, the decision of the Engineer -in-Charge regarding theoretical quantities of materials, which s hould have been actually used, shall be final and binding on the contractor.

iii) 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 d oing the work according to the prescribed specifications.

Compensa - tion during war like situations

CLAUSE 43 . The work (whether fully constructed or not) and all materials, machines, tools and 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 war -like 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

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works damaged or destroyed but not already measured and paid for the compensation shall be assessed by the EXECUTIVE ENGINEER uptoRs. 5,000/ - and by the Chief Engineer for higher amount. The contractor shall be paid fo r the damage/destruction suffered and for restoring the material at the rates based on analysis of rates tendered for in accordance with the provision of the agreement. The certificate of the Engineer -in -Charge regarding the quality and quantity of materia ls and the purpose for which they were collected shall be final and binding on all parties to this contract.

Provided always that no compensation shall be payable for any loss in consequences of hostilities or war -like operation (a) unless the contractor had taken all such precautions against air raid as are deemed necessary by the A.R.P. Officer or the Engineer -in -Charge (b) for any materials etc, not on the site of the work or for any tools, plants, machinery, scaffolding, temporary building and other th ings not intended for the work.

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

Apprentices Act provisions to be complied with

CLAUSE 44. The contractor shall comply with the provisions of the Apprentices Act, 1961 and the rules and orders and issued thereunder from time to time. If he fails to do so, his failure will be a breach of the contract and the Engineer -in -Charge 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 45

Release of Security Deposit after labour clearance

Security deposit of the work shall not be refunded till the contractor produces a clearance 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 compl etion of the work and / or no communication is received from the Labour Officer to this effect till six months after the date completion, it will be deemed to have received the clearance certificate and the Security Deposit will be released if otherwise du e.

Schedule showing approximate quantity of materials to be supplied by the Central Warehousing Corporation under clause 10 of the Conditions of contract of work contracted to be executed and the rates at which they are to be charged for.

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Particulars	Rates at which the material will be charged to the contractor	Place of delivery
AS PER SCHEDULE 'B' ATTACHED		

Note : — The person or firm submitting the tender should see that the rates in the above schedule are filled up by t .0he Enginee r-in-Charge on the issue of the form prior to the submission of the tender. To be filled in by the EXECUTIVE ENGINEER

Contractor
Name & Seal with address

SUPERINTENDING ENGINEER/
EXECUTIVE ENGINEER
For & on behalf of
Central Warehousing Corporation

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CENTRAL WAREHOUSING CORPORATION
(A. GOVT. OF INDIA UNDERTAKING)

SCHEDULE – B

LIST OF MATERIALS TO BE SUPPLIED TO THE CONTRACTORS

S.No	Description of Material	Unit	Rate in Figures & Words	Apporx. Quantity	Place of delivery	Remark s
1	2	3	4	5	6	7
	---- NIL ----					

SIGNATURE OF EXECUTIVE ENGINEER
FOR AND ON BEHALF OF THE
CENTRAL WAREHOUSING CORPORATION

Signature of Contractor

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SAFETY CODES

Safety Codes :

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 engage d for holding the ladder and if the ladder is used for carrying materials as well, suitable footholds and handhold 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. Sc affolding or staging more than 3.6 m (12 feet) 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 other wise secured at least 90 cm. (3 fe et) 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 fast ened 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 mor e than 3.6m. (12 feet) above ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened as described in (2) above.

4. Every opening in the floor of building or in a working platform be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be 90 cm. (3 feet).

5. Safe means of access shall be provided to all working platform and other working places. Every ladde r shall be securely fixed. No portable single ladder shall be over 9 m. (30 feet) in length while the width between side rails in rung ladder shall in no case be less than 29 cm. (11 ½") for ladder upto and including 3 m. (10 feet) in length. For longer la dders, this width should be increased at least 1/4" for each additional 30 cm.(1 feet) of length. Uniform step spacing shall not exceed 30 cm. (12"). Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites of 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 d efence of every suit, action or other proceedings at law that may be brought by any persons 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 s uch person or which may, with the consent of the contractor, be paid to compensate any claim by any such person.

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6. **Excavation and Trenching** — All trenches, 1.2 m. (four feet) or more in depth, shall at all times be supplied with at least one la dder for each 30 m. (100 feet) in length or fraction thereof. Ladder shall extend from bottom of the trench to at least 90 cm. (3 feet) above the surface of the ground. The side of the trenches which are 1.5 m (5 feet) or more in depth shall be stepped ba ck to give suitable slope or securely held by timber bracing, so as to avoid the danger or sides collapsing. The excavated materials shall not be placed within 1.5m (5 feet) 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.

7. **Demolition** — Before any demolition work is commenced and also during the process of the work : --

ii) All roads and open area adjacent to the work si te shall either be closed or suitably protected.

iii) 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.

iv) 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 Engi neer -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 equipments by those concerned. The follo wing 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) Stonebreakers shall be provided with protective goggles and protective clo thing and seated at sufficiently safe intervals.

v) When workers are employed in sewers and manholes, which are in active use, the contractor shall ensure that the manual 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 of 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 measures are adh ered to:

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a) Entry for workers in to the line shall not be allowed except under supervision of the AE or any other higher officers.

b) At least 5 to 6 manholes upstream and downstream should be kept open for atleast 2 to 3 hours before any man is allowed t o 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 shou ld be handled by two men standing outside to enable him to be pulled out during emergency.

f) The area should be barricaded or cordoned of by suitable means to avoid mishaps of any kind. Proper warning signs should be displayed for the safety of the public wh enever cleaning works are undertaken during night or day.

g) No smoking or open flames be allowed near the blocked manholes being cleaned.

h) The malba obtained on account of cleaning of blocked manholes and sewer lines should be immediately removed to avoid acc idents 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 may decide the time upto which a worker may be allowed to work continuo usly 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 manhol es. The mortar for these shall be vapour proofed and totally enclosed type. Non -sparking gas engines also could be used but they should be placed at 2 mtrs away from the opening and on the leeward side protected from wind so that they will not be a source of friction on any inflammable gas that might be present.

l) The workers engaged for cleaning the manholes/sewers should be properly trained before allowing to work in the manhole.

m) The workers shall be provided with Gumboots or non -sparking shoes bump helmet s and gloves non -sparking tools safety lights and gas masks and potable 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 ladde r 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.

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o) If a man has received a physical injury, he should be brought out of the sewer immediately and adeq uate medical aid should be provided to him.

p) The extent to which these precautions are to be taken depend on individual situation but the decision of the Engineer -in-Charge regarding the steps to be taken in this regard in an individual case will be final.

vi) The 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 the following precautions should be taken.

a. No paint containing lead or lead products shall be used except in the form of paste or ready -made 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 ru bbed and scrapped.

c. Overalls shall be supplied by contractor to the workmen and adequate facilities shall be provided to enable the working painters to wash during and on the cessation of work.

9. The contractor shall not employ women and men below the a ge 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, the following principles must be observed for such use: -

(i) White lead, sulphate of lead or pr oducts containing these pigments shall not be used in painting operation except in the form of paste or paint ready for use.

(ii) Measures shall be taken wherever required in order to prevent danger arising from the application of a paint in the form of s pray.

(iii) Measures shall be taken wherever practicable, to prevent danger arising out from dust caused by dry rubbing down and scrapping.

(iv) Adequate facilities shall be provided to enable working painters to wash during and on cessation of work.

(v) Overalls shall be worn by working painters during the whole of the working period.'

(vi) Suitable arrangements shall be made to prevent clothing put off during working hours being spoiled by painting materials.

(vii) Cases of lead poisoning and suspect ed lead poisoning shall be notified and shall be subsequently verified by a medical man appointed by the competent authority of the Central Warehousing Corporation.

(viii) The Central Warehousing Corporation may require when necessary a medical examinatio n of workers.

(ix) Instructions with regards to the special hygienic precautions to be taken in the painting trade shall be distributed to working painters.

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10. When the work is done near any place where there is risk of drowning, all necessary e quipments 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 the course of the work.

11. Use of hoisting machines and shackle 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 fr ee from patent defect 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 dri ver 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 included any scaffolding winch or give signals to operator.

iii. In case of every hoisting machine and of every c hain 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 lo ad. In case of hoisting machine having a variable safe working load, each safe working load and the conditions 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 b eyond 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 Engineer(Elect.). As regards contractor's machines the contractors shall notify the safe working load of machine to the 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 wi th 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 energised, insulating mats, wearing apparel, such as gloves, sleeves and boots as may be necessary should be provided. The workers should not wear any rings, watches and carry keys or other materials, which are the good conductors of electricity.

13. All scaffold, 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.

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14. These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent pla ce 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 and regulations relating to safety precautions, the arrangements made by the contractors shall be upon to inspections 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 the operations of any other Act or Rule in force in the Republic of India.

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Model Rules for the Protection of Health and Sanitary Arrangementsfor Workers Employed by Central Warehousing Corporationor its Contractors

1. Application:

These rules shall apply to all buildings a nd 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 during which the contract work is in progress.

2. Definition:

Work plac e means a place where twenty or more workers are ordinarily employed or are proposed to be employed in connection with construction work on any day during the period during which the contract work is in progress.

3. First Aid Facilities:

(1) At every wo rk 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.

(2) The first -aid box shall be distinct ly marked with red cross on white Base and shall contain the following equipment, namely: —

(a) For work places in which the number of contract labour employed does not exceed 50 —

Each first aid fox shall contain the following equipment

(i) 6 small steri lised dressings.
(ii) 3 medium size sterilised dressings.
(iii) 3 large size sterilised dressings.
(iv) 3 large sterilised burn dressings.
(v) 1 (30 ml.) bottle containing a two percent alcoholic solution of iodine.
(vi) 1 (30 ml.) bottle containing salvo latile having the dose and mode of administration Indicated on the label.
(vii) 1 snake -bite lancet.
(viii) 1 (30 gms.) bottle of potassium permanganate crystals.
(ix) 1 Pair scissors.
(x) 1 copy first -aid leaf -let issued by the Director General, Factory A dvice Service and Labour Institute, Government of India.
(xi) 1 bottle containing 100 tablets (each of 5 grams) of aspirin.
(xii) Ointment for burns
(xiii) A bottle of suitable surgical antiseptic solution.

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(b) For the work place in which the number of contract labour exceed 50 — Each first -aid box shall contain the following equipments : —

(i) 12 small sterilised dressings
(ii) 6 Medium size sterilised dressings.
(iii) 6 large size sterilised dressings.
(iv) 6 large size sterilised burn dressi ngs.
(v) 6 (15 gms) packets sterilised cotton wool.
(vi) 1 (60 ml) bottle containing salvolatile having the dose and mode of administration indicated on the label.
(vii) 1 (60 ml) bottle containing a two per cent alcoholic solution of iodine.
(viii) 1 ro le of adhesive plaster
(ix) 1 snake bite lancet.
(x) 1 (30 gms.) bottle of potassium permanganate crystals.
(xi) 1 pair of scissors.
(xii) 1 copy of the first -aid leaf -let issued by the Director General, Factory Advice Service and Labour Institute, Governm ent of India.
(xiii) A bottle containing 100 tablets (Each of 5 grams.) of aspirin.
(xiv) Ointment of bums.
(xv) A bottle of suitable surgical antiseptic solution.

(3) Adequate arrangement shall be made for immediate recoupment of the equipment when ne cessary.

(4) Nothing except the prescribed contents shall be kept in the first -aid box.

(5) The First -Aid box shall be kept in charge of a responsible person who shall always be readily available during the working hours of the work place.

(6) A perso n in charge of the First -Aid box shall be person trained in Fist -Aid treatment, in the work places where the number of the Contract labour employed is 150 or more.

(7) In work places where the number of contract labour employed is 500 or more, and hospita l facilities are not available within easy distance from the work, 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.

(8) Where work place are situated in places which are not towns or cities, suitable motor transport shall be kept readily available to carry injured person or persons suddenly taken ill to the nearest hospital.

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4. Drinking Water :

(a) In every work place, there sh all be provided and maintained at suitable places, easily accessible to labour, a sufficient supply of cold water fit for drinking.

(b) Where drinking water is obtained from an intermittent public water supply, each work place shall be provided with stor age where such drinking water shall be stored.

(c) Every water supply of storage shall be a distance of not less than 50 feet from any latrine, drain or other source of pollution. When water has to be drawn from an existing well, which is within such proxi mity 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 and waterproof.

(d) 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 facilit ies for washing shall be provided and maintained for the use of contract labour employed therein.

(ii) Separate and adequate screening facilities shall be provided for the use of male and female workers.

(iii) Such facilities shall be conveniently accessi ble and shall be kept in clean and hygienic condition.

6 . Latrines & 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 fir st 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 proper door and fastenings.

[iii] Construction of latrines : The inside walls shall be constructed of masonry or s ome 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 bore -hole system.

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[iv] (a) Where workers of both sexes are employed, there shall be display 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 fifty 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 thereof, 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) Latr ines and urinals other than those connected with a flush sewerage system shall comply with the requirements of the Public Health Authorities.

[vii] Water shall be provided by means of a tap or otherwise so as to be conveniently accessible in or near the l atrines 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 exc reta 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 than covering it with a layer of earth for a fortnight (when it will turn into 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 contractors workmen or employees on the site. The con tractor shall be responsible for payment of any charges, which may be levied by Municipal or Cantonment Authority for execution of such work on his behalf.

7. Provision of Shelter during rest :

At every place there shall be provided, free of cost, four s uitable sheds, two for males and the other two for females for rest separately for the use of men and women labour. The height of each shelter shall not be less than 3 meters (10 feet) from the floor level to the lowest part of the roof. These shall be kep t clean and the space provided shall be on the basis of 0.6 sq. m. (6 sq.ft.) 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 use d for the purpose.

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8. Creches :

(i) at every work place, at which 20 or more women workers 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 bed room. The rooms shall be constructed with specifications as per clause 19 -H (2) (a), (b), (c).

(ii) The rooms shall be provided with suitable and sufficient openings for light and v entilation There shall be adequate provisions of sweepers to keep the place clean.

(iii) The contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and bedding in the bed room.

(iv) The contractor shall p rovide one Aaya attendant to look after the children in the crech when the number of women workers does not exceed 50 and two when the number of women workers exceed 50.

(v) The use of rooms earmarked as creches shall be restricted to children, their atte ndants 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 wherein 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, store, room, pan try and washing places separately for workers and utensil.

(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 material 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) The premises of the canteen shall be maintained in a clean and sanitary condition.

(vii) Waste water shall be carrie d 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.

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(ix) The dinning hall shall accommodate at a time 30 per ce nt of the contract labour working at a time.

(x) The floor area of the dinning hall, excluding the area occupied by the service counter and any furniture except tables and chairs shall not be less then one square meter (10 sq.ft.) per diner to be accommod ated as prescribed in sub -rule 9.

(xi) [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 place for women shall be separate and screen to secure privacy.

(xii) Sufficient tables, stools, chairs or benches shall be available for the number of diners to be accommodated as prescribed in the 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 and impervious material.

[3] Suitable facilities including an adequate supply of hot water shall be provided for the cleaning of utensils and equipment.

(xiv) The food stuffs an d 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 cons picuously displayed in the canteen.

(xvi) In arriving at the price of food stuffs, and other articles served in the canteen, the following items shall not be taken into consideration as expenditure, namely : --

[a] The rent of land and building.

[b] The d epreciation and maintenance charges for the building and equipment provided for the canteen.

[c] The cost of purchase, repairs and replacement of equipments including furniture, crockery cutlery and utensil.

[d] The water charges and other charges incurr ed for lighting and ventilation.

(e) The interest and amounts spent on the provision and maintenance and equipment provided for the canteen.

(xvii) The 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.

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

12. Amendments

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

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CENTRAL PUBLIC WORKS DEPARTMENT CONTRACTORS' LABOUR REGULATIONS - THESE REGULATIONS WILL APPLY MUTATIS -MUTANDIS TO THE WORK OF THE CENTRAL W AREHOUSING CORPORATION

1. Short Title:

These regulations may be called the " Central Public Works Department Contractors" Labour Regulations".

2. Definitions :

(i) " **Workman"** means any person employed by a Central Public Work Department or its Contracto r directly or indirectly through a sub -contractor, with or without the knowledge of the Central Public Work Department to do any skilled, semi skilled or unskilled manual, supervisory, technical or clerical work for hire or reward, whether the terms of emp loyment 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 exerci ses either by the nature of the duties attached to the office or by reason of powers vested in him, functions mainly of managerial nature.

(c) Who is an out worker, that is to say, a person to whom any article or materials are given out by or on behalf of the principal employer to be made up cleaned, washed, altered, ornamental finished repaired adopted or otherwise processed for sale for the purposes of the trade or business of the principal employer 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 form 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 manufactures through contrac t 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 wor king 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.

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(ii) When an adult worker is made to work for more than 9 hours on any day or for the more than 48 hours in any wee k he shall be paid overtime 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 Wage Act or not.

(b) Where the Minimum Wages prescribed by the Government 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 t o 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 norm al 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 and 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 rate of wages fixed under the Minimum Wages Act, the actual wages being paid, the hours of work for which such wages are earned, wage periods, date of payment of wages and other relevant information as per Appendix 'III'

5. Payment of Wages:

(i) The contractor shall fixed 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 the seventh day and in other cases before the expiry of tenth d ay after the last day of 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.

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(v) All payments 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 or to other person authorised by him in this behalf.

(vii) All wages shall be paid in current coin or currenc y or in both.

(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 of permissible under the Payment of Wages Act 1956.

(ix) A notice showing the wages pe riod 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 acknowledgement.

(x) It shall be the duty of the contractor to ensure the disbursement of wages in the presence of the Asstt. Engineer or any other authorised representative of the Engineer -in-Charge who will be required to be present at the place and time of disbursement of wages by the contractor to workmen.

(xi) The contractor shall obtain from t he Asstt. 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 in my presence on.....at....."

6. Fines and deductions which maybe made from wages :

(i) The wa ges of a worker shall be paid to him without any deductions 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 dedu ction shall be in proportion to 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 over - payment of wages, advances granted shall be entered in a register.

(e) Any other deduction, which the Central Government/ the Corporation may from time to time allow.

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(ii) No fines should be imposed on any worker save in respect of such acts and omission on his part as have been approved of by the Chief Labour Commissioner.

Note —An approved list of Acts and omissions for which fines can be imposed is enclosed at Appendix -I.

(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 de ductions.

(iv) Total amount of fine which may be imposed in any one wage period on a worker shall not exceed an amount equal to three paisa in a rupee of the total wages, payable to him in respect of that wage period.

(v) No fine imposed on any worker sh all 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 IV).

(ii) The contractor shall maintain a " **Muster Roll** " Register in respect of all workmen employed by hi m on the work under contract in form XVI of the CL (R & A) Rules 1971 (Appendix 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 (Appen dix VI).

(iv) **Register of accidents** —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.

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[k] Claim required to be paid under Workmen's Compensation Act.

[1] 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) Register of fines - The contractor shall maintain a " **Register of fines** " in the form XII of the CL (R & A) Rules 1971 (Appendix -XI-).

The contractor shall display in a good cond ition and in the conspicuous place of. work the approved list of Acts and Omission for which fines can be imposed (Appendix -X).

(vi) Register of Deductions —The contractor shall maintain " **Register of deduction for damage or loss"** in form XX of the CL (R & A) Rules 1971 (Appendix -XII).

(vii) Register of Advances —The contractor shall maintain a " **Register of Advances** " in form XXIII of the CL (R & A) 1971 (Appendix -XIII).

(viii) Register of Overtime —The contractor shall maintain a " **Register of Overtime** " in form XXIII of the CL (R & A) Rules 1971 (Appendix -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 -VII).

(ii) The card shall be valid for e ach wage period.

(iii) The contractor shall mark the 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 t he 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 the 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. **Employmen** t **Card** :

The contractor shall issue an **employment Card** in Form XIV of the CL (R & A) Central Rules 19 71 to each worker within three days of the employment of the worker (Appendix -VIII).

10. **Service Certificate** :

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

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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 f rom the date of last entries made in them and shall be made available for inspection by the Engineer -in-Charge, Labour Officer or any other officers authorised by the Corporation in this behalf.

12. **Power of Labour Officers to Make Investigations or Enqui ry** :

The Labour Officer or any person authorised by the Corporation on their behalf shall have power to make enquiries with a view to ascertaining and enforcing due and proper observance of the fair wage Clauses and the Provisions of Regulations. He shall investigate into any complaint regarding the default made by the contractor or sub -contractor 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 In vestigation 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 labour will be made by the Executive Engineer after the Chief Engineer has given his decision on such appeal.

(i) The EXECUTIVE ENGINEER shall arr ange payments to the labour concerned within 45 days from the receipt of the report from the Labour Officer or the Chief Engineer as the case may be.

14. **Appeal against the decisions of Labour Officer** :

Any person aggrieved by the decisions and recommend ations of the Labour Officer or other person so authorised may appeal against such decision to the Chief Engineer within 30 days from the date of decision, forwarding simultaneously a copy of his appeal to the EXECUTIVE ENGINEER concerned but subject to su ch 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 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 in employed.

(ii) An employer shall be entitled to be represented in any investigation or enquiry under these reg ulations by -

(a) An Officer of an association of employers of which he is a member.

(b) An Officer of a federation of associations of employers to which association referred to in Clause (a) is affiliated.

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(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 worker or to his agent at a convenie nt time and place after due notice is received or to the Labour Officer or any other person, authorised by the Central Warehousing Corporation on his behalf.

17. **Submission of Returns** :

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

18. A**mendments** :

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

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APPENDIX - I

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 of Delivery/ misc arriage	In case of delivery		In case of miscarriage	
	Commenced	Ended	Commenced	Ended
6	7	8	9	10

Date on which maternity leave commenced and ended				
Leave pay paid to the employee				
In case of delivery		In case of miscarriage		Remarks
Rate of leave pa y	Amount paid	Rate of leave pay	Amount paid	
11	12	13	14	15

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APPENDIX - II

SPECIMEN FORM OF THE REGISTER REGARDING MATERNITY BENEFIT ADMISSIBLE TO THE CONTRACTOR'S LABOUR IN CENTRAL WAREHOUSING CORPORATION WORKS

Name of the wo rk . Name of the Contractor

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 pregnanc y.
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 the 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 woman dies, the date of her death the name of the person to whom maternity benef it amount was paid, the month thereof and the date of payment
14. Signature of the contractor authenticating entries in the register.
15. Remarks columns for the use of Inspecting Officer.

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Appendix 'III'

LABOUR BOARD

Name of the work.... .....

Name of the Contractor..... .

Address of contractor.....

Name and Address of CONSTRUCTION CELL

....

Name of labour Enforcement Officer.....

Address of Labour Enforcement Officer..... .....

Sl. No.	Category	Minimum wage fixed	Actual wage paid	Number present	Remarks

Weekly holiday.....

Wage period .....

Date of payment of wages.....

Working hours.....

Rest interval.....

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FORM XIII
[See rule 75]
Register of Workman Employe d by Contractor

Name & Address of Contractor _____

Name & Address of establishment under which contract is carried on _____

Nature & location of work _____

Name & Address of Principal Empolyer_____

Sl. No.	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
1	2	3	4	5	6	7	8	9

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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.No.	Name of Workman	Sex	Father's/Husband's Name	Dates		
				1	2	3
1	2	3	4			5

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FORM XVII
[See Rule 78 (2) (a)]
REGISTER OF WAGE

Name & Address of Contractor _____

Name & Address of establishment und er which contract is carried on _____

Nature & location of work _____

Name & Address of Principal Employer _____ _____ Wage period : Monthly/Fortnightly_

Sl. No.	Name of workman	Sl. No. in the register of workman	Designation /nature of work done.	No. of days worked	Unit of work done	Daily rate of wages / piece rate	Basic wa ges	Dearness allowance	Overtime	Other cash payment (nature of payment to be indicated)	Total
1	2	3	4	5	6	7	8	9	10	11	12

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Wage Card No. _____

WAGES CARD

Name & Address of Contractor _____ Date of is

Name and locat ion of work _____ Designati

Name of work man _____ Month/Fo

Rate of Wages _____ _____

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

Morning Rat

Evening Amou

Initial

Received from _____ _ The sum of Rs. _____

The Wages Card is valid for one month from the date of issue.

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Appendix "VII"
(Reverse)

FORM XIX
[See Rule 78(2) (b)]

WAGE SLIP

Name & address of Contractor _____name & 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 an y

_____ _____

7. Net Amount of wages paid

_____ _____

_____
Initial of the Contractor or
His rep resentative

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Appendix 'VIII'

FORM XIV
[See Rule 76]
EMPLOYMENT CARD

Name & Address of Contractor _____
_____ _____

Name & Address of establishment in / under which contract is carried on
_____ _____ _____

Name of work & location of work _____
_____ _____

Name & Ad dress of Principal Employer _____
_____ _____

1. Name of the workman _____
_____ ____ __

2. S. No. in the register of workman employed _____
_____ _____ _____

3. Nature of employment/Designation _____
__ _____ _____ _____

4. Wage rate (with particulars of unit in case of piece work) _____
_____ _____

5. Wages period _____
__ _____ _____

6. Tenure of Employment _____

7. Remarks : _____

_____
_____
Signature of Contractor

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FORM XV
[See Rule 77]
SERVICE CER TIFICATE

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. No.	Total period fo r which employed		Nature of work done	Rates of wage (with Particulars of Unit in case of piece work)
	From	To		
1	2	3	4	5

Signature

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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 wor k _____
Name & Address of Principal Employer _____

Sl. No.	Name of workman	Father's/ Hu sbands name	Designation/ nature of employment	Act/ Omission for which fine imposed	Date of offence	Whether workman showed cause against fime	Name of person in whose presence employee's explanation was heard	Wage periods and wages payable
1	2	3	4	5	6	7	8	9

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Appendix 'X'

LIST OF ACTS AND OMISSIONS FOR WHICH FINES CAN BE IMPOSED

In accordance with rule 7 (v) of C.P.W.D. Contractor's Labour Regulations to be d isplayed 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 dishonesty in connection with the contractors beside a business or prope rty 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 a rea 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 employers property of manufacturing or making of unauthorised articles at the work place.
15. Bad wo rkmanship 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 the collection of any money with in the premises of an establishment unless authorised by the employer.
20. Ho lding 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.

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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 _____

Nature & Location of work _____

Name & Address of Principal Employer _____

Sl. No.	Name of workman	Father's /Husband's name	Designation/ nature of employment	Particulars of damage or loss	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
1	2	3	4	5	6	7	8	9	10

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FORM XXII
[See Rule 78 (2) (d)]
REGISTER OF ADVANCE

Name & Addre ss of Contractor _____

Name & Address of establishment in/under which contract is carried on _____
Nature & Location of work_____

Name & Address of Principal Employer _____

Sl. No.	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 paid	a in
1	2	3	4	5	6	7	8	

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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 _____

Nature & Location of work_____

Name & Address of Principal Employer _____

Sl. No.	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
1	2	3	4	5	6	7	8	9

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PROFORMA OF SCHEDULES

(Oper ative Schedules to be supplied separately to each intending tenderer)

SCHEDULE 'A'

Schedule of quantities:

SCHEDULE 'B'

Schedule of materials to be issued to the contractor.

S.No.	Description of item	Quantity	Rates in figures & words at which the materi al will be charged to the contractor	Place of Issue
1.	2.	3.	4.	5.

.....NIL..... .....

SCHEDULE 'C'

Tools and plants to be hired to the contra ctor

Sl. No.	Description	Hire Charges per day	Place of issue
1.	2.	3.	4.

NOT APPLICABLE

SCHEDULE 'D' --- NOT APPLICABLE

SCHEDULE 'E'

Schedule of component of Cement, Steel, Other Materials, Labour etc. for price escalation .

NOT APPLICABLE

CLAUSE 10 C **NOT APPLICABLE**

Component of Cement Xc

Expressed as per cent of total value of work _____%

Component of Steel Xs

Expressed as per cent of total value of work _____%

Component o f Materials Xm

Expressed as per cent of total value of work _____%

Component of Labour Y

Expressed as per cent of total value of work _____%

Component of POL Z

Expressed as per cent of total value of work _____%

SCHEDULE 'F'

Reference to General Conditions of contract.

Name of work : S/I/T/C OF 75 KVA DIESEL GENERATOR ALONG WITH AMF PANEL AT REGIONAL OFFICE, HYDERABAD

Estimated cost of work: Rs. 8,51,292 / -

Earnest Money: **Rs. 17,500 / -**

Security Deposit a) Performance Guarantee: 5% of the tendered value

b) Security Deposit : 5% of tendered value.

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GENERAL RULES: & DIRECTIONS	Officer inviting tender Maximum percentage for quantity Of items of work to be executed beyond w hich rates are to be determined in accordance with Clauses 12..2 & 12..3	EXECUTIVE ENGINEER, CWC, CC, CHENNAI 30% in Superstructure , 100 % in Foundation

Definitions:

2(v)	Engineer -in -Charge	EXEC UTIVE ENGINEER , CWC, CC, CH ENNAI
2 (viii)	Accepting Authority	Competent Authority of Central Warehousing Corporation
2(x)	Percentage on cost of materials and labour to cover all overheads and profits	15%.
2(xi)	Standard Schedule of Rates	Delhi Schedule of rates 200 7 for Civil And Electrical
2 (xii)	Department	Central Warehousing Corpo ration, CONSTRUCTION CELL, CHENNAI
9(ii)	Standard Contract Form	

CLAUSE 1

(i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance 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 , **1 to 15 days.**

Clause 2	Authority for fixing compensation under Clause 2	Authority of CWC as per the delegation of powers
Clause 5	Time allowed for execution of work from the date of issue of letter of acceptance /work order . Authority to give fair and reasonable extension of time for completion of work	**60 Days** Authority of CWC as per the de legation of powers

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TABLE OF MILE STONES			
Sl. No.	Description of Mile Stone (Physical)	Time Allowed in days (from date of start)	Amount to be withheld in case of non - achievement of mile stone

Or

Sl. No.	Financial Progress	Time Allowed (f rom date of start)	Amount to be withheld in case of non - achievement of mile stone
1.	2.	3..	4.
1. 2. 3. 4.	1/8 th (of the whole work) 3/8 th (-do -) 3/4 th (-do -) Full	1/4 th (of the whole work) ½ (-do -) 3/4 th (-do -) Full	In the event of not achievi ng the necessary progress as assessed from the running payments, 1% of the tendered value of work will be withheld for failure of each milestone

Clause 7	Gross work to be done together with net payment/ adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment	

CLAUSE 10A

List of testing equipments to be provided by the Contractor at site lab.

1. ..... 2. ..... 3. ..... 4. .....

5. ..... 6. .....

CLAUSE 10C

Component of labour expressed as percent of value of work = 25%

CLAUSE 10CC

Clause 10CC to be appl icable in contracts with stipulated period of completion exceeding the period shown in next column. = 18 Months

Clause 11	Specifications to be followed for execution of work	CPWD Specifications Vol. I, II of 2009 for Civil Works with up to date correct ion slips and CPWD Specifications for electrical work Part -I & II 1994 and General specifications Part –I (Internal) of 2005 with up to date correction slips.

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CLAUSE 12

Type of work : S/I/T/C OF 75 KVA DIESEL GENERATOR ALONG WITH AMF PANEL AT RE GIONAL OFFICE, HYDERABAD

12.2 & 12.3

Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building work	As per provision of CPWD Manual Vol -II, applicable as on date of opening of tenders.

12.5

Deviation limit beyond which clauses 12.2 & 12.3 shall apply for foundation work	As mentioned above

Clause 16	Competent Authority for deciding reduced rate	SUPERINTENDING ENGINEER/ EXECUTIVE ENGINEER, CWC, CC ,CHENNAI

CLAUSE 18

List of mandatory machinery, tools & Plants to be deployed by the C ontractor at site

1. Vibrator
2. Road roller
3. Vivro roller
4. Concrete Mixture
5. .....
6. .....

Clause 36 (i)		
	Minimum Qualifications & experience required for Principal Technical Representative	
	a) For work s with estimated cost put to tender more than (i) Rs. 10 Lakh for Civil Work (ii) Rs. 5 Lakh forElec ./Mech . Works	Graduate or retired AE from Govt. Department/ Public Sector / Govt. Construction Agency possessing at least recognised diploma.
	b) For work s with estimated cost put to tender (i) More than Rs.5 Lakh but less than Rs.10 Lakh for Civil Works (ii) More than Rs.1 Lakh but less than Rs.5 Lakh for Elect ./Mech . Works	Recognised Diploma holder

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	c) Discipline to which the Principa l Technical Representative should belong	Civil/Elect.
	d) Minimum Experience of works	Five years
	e) Recovery to be effected from the contractor in the event of not fulfilling provision of Clause 36(i)	Rs.4,000/ - p.m. for Graduate Rs.2,0 00/ - for diploma holder
Clause 42		
i)	(a) Schedule/Statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 20 07 printed by C.P.W.D.	
ii)	Variation permissible on theoretical quantities	
	a) Cement for works with estimated cost put to tender nor more than Rs.5lakhs . for works with estimated cost put to tender more than Rs.5 lakhs	3% plus/minus 2% plus/minus
	b) Bitumen All works	2.5% plus only & nil on minus side
	c) Steel Reinforcement and struct ural steel sections for each diameter, section and category	2% plus/ minus
	d) All other materials	Nil

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RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

Sl. No.	Description of item	Rates in figure and words at which recovery shall be made from the contractor Rate in Schedule 'B' plus 10% in case materials issued by department	
		Excess beyond permissible variation	Less use beyond the permissible variation
1.	Cement	**---- Not applicable ----**	
2.	Steel reinforcement		
3.	Structural Sections		
4.	Bitumen issued free		
5.	Bitumen issued at stipulated fixed price		

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ANNEXURE TO CLAUSE 34 (X) SHOWING QUANTITIES OF MATERIALS FOR AREAS OF SURFACING TO BE CONSIDERED FOR WORKING OUT MINIMUM PERIOD FOR WHICH HIRE CHARGES O F ROAD ROLLER ARE TO BE RECOVERED

Sl. No.	Material of surfacing	Quantity or areas
1	Consolidation of earth sub -grade	1860 Sq.m
2	Consolidation of stone soling 15 cm to 22.5 cm thick	170 Cu.m
3	Consolidation of brick soling 10 cm to 20 cm thick	230 Cu.m
4	Consolidation of wearing coat of stone ballast 7.5 cm to 11.5 cm thick.	30 Cu.m
5	Consolidation of wearing coat of brick ballast 10 cm thick.	60 Cu.m
6	Spreading and consolidation of red bajri 6 mm.	1860 Sq.m
7	Painting one coat using stone aggregat e 12.5 mm nominal size -- (a) @ 1.65 cu.m per 100 sq.m and paving bitumen A -90 or S -90 @ 2.25 Kg per sq.m. OR (b) @ 1.50 cu.m per 100 sq.m. and bitumen emulsion or Road tar @ 225 Kg per m2	930 Sq.m
8	Painting two coats using — (a) For first coat, stone agg regate 12.5 mm nominal size (i)@ 1.5 cu.m. per 100 sqm. with paving bitumen A -90 or S -90 @ 2 Kg/Sq. m. OR (ii) @ 1.35 cu.m. per 100 cu.m. with bitumen emulsion @ 2 Kg. /Sq. m OR (iii) @ 1.25 cu.m per 100 sq.m with road tar @ 2.25 Kg/Sq. m. (b) For 2nd coat , stone aggregate 10mm nominal size 0.9 Cu. m. per 100 Sq. m. with — (i) 1 Kg of paving bitumen A -90 or S -90 or bitumen emulsion per Sq. m. OR (ii) 1.25 Kg. of road tar, per sq.m	600 sq.m. 600 sq.m.
9	Repainting with stone aggregate 10 mm nominal size 0 .9 Cu. m. per 100 Sq. m. with - (a) 1 Kg. of paving bitumen A -90 or S -90 per Sq. m. OR (b) 1.25 Kg. of bitumen emulsion per Sq. m	1670 Sq.m
10	2 cm premix carpet surfacing using 2.4 cu.m. of stone aggregate 10 mm nominal size per 100 sq.m. and binder inc luding tack coat, the binder being hot cut back bitumen or bitumen emulsion in specified quantities.	930 Sq.m.
11	2.5 cm premix carpet surfacing using 3.0 cu.m. of stone aggregate 10 mm nominal size per 100 sq.m. and binder including tack coat, the binder being hot cut back bitumen or bitumen emulsion in specified quantities.	930 Sq.m

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Sl. No.	Material of surfacing	Quantity or areas
12	4 cm thick bitumen concrete surfacing using stone aggregate 3.8 Cu. m [60% 20mm nominal size and 40% 12.5 mm nomin al size] per 100 sq.m. and coarse sand 1.9 Cu. m per 100 sq.m. and hot cut back bitumen over a tack coat of hot cut back bitumen.	460 Sq.m.
13	5 cm thick bitumen concrete surfacing using stone aggregate 4.8 Cu. m [60% 25mm nominal size and 40% 20mm nomina l size] per 100 sq.m. and coarse sand 2.4 Cu. m per 100 sq.m. and hot cut back bitumen over a tack coat of hot cut back bitumen.	370 Sq.m.
14	6 cm thick bitumen concrete surfacing using stone aggregate 5.8 Cu. m [60% 40mm nominal size and 40% 25mm nominal size] per 100 Sq. m and coarse sand 2.9 Cu. m per 100 Sq. m and hot cut back bitumen over a tack coat of hot cut back bitumen.	280 Sq.m.
15	7.5 cm thick bitumen concrete surfacing using stone aggregate 7.30 Cu. m [60% 50mm nominal size and 40% 40mm nomin al size] per 100 Sq. m and coarse sand 3.65 Cu. m per 100 Sq. m and hot cut back bitumen over a tack coat of hot cut back bitumen.	230 Sq.m
16	2.5 cm bitumastic sheet, using stone aggregate 1.65 Cu. m [60% 12.5 mm nominal size and 40% 10mm nominal size] per 100 Sq. m and coarse sand 1.65 Cu. m per 100 Sq. m and hot cut back bitumen over a tack coat of hot cut back bitumen.	750 Sq.m.
17	4cm bitumastic sheet, using stone aggregate 2.6Cu.m [60% 12.5mm nominal size and 40% 10mm nominal size] per 100 Sq. m an d coarse sand 2.5 Cu. m per 100 Sq. m and hot cut back bitumen over a tack coat of hot cut back bitumen.	560 Sq.m
18	Laying full grouted surface using stone aggregate 40mm nominal size 6.10Cu. m per 100 sq.m. with binder, binding with 20mm to 12.5mm nomin al size stone grit, 1.83 Cu. m per 100 Sq. m and seal coat of binder and stone grit 10mm nominal size 1.07 Cu. m per 100 Sq. m the binder being hot bitumen or tar as specified.	460 Sq.m.
19	Laying full grouted surface using stone aggregate 50mm nominal si ze 9.14 Cu. m per 100 Sq. m grouting with binder, with stone grit 20 mm to 12.5 mm nominal size, 1.83 Cu. m/100 Sq. m and seal coat of binder and stone grit 10mm nominal size 1.07 Cu. m/ 100 Sq. m the binder being hot bitumen or tar as specified.	370 sq.m.
20	4 cm thick premix macadam surfacing using stone aggregate 25mm nominal size 4.57 Cu. m per 100 Sq. m and hot bitumen binding with stone aggregate 12.5mm nominal size 1.52 Cu. m per 1 00 Sq. m and seal coat of hot bitumen and stone aggregate 10mm nomin al sized 1.07 Cu. m /100 Sq. m.	560 Sq.m
21	5 cm thick premix macadam surfacing with stone aggregate 25mm nominal size 6.10 Cu. m per 100 Sq. m and hot bitumen, binding with stone aggregate 12.5mm nominal size 1.52 Cu. m per 100 Sq. m and seal coat of hot bitumen and stone aggregate 10mm nominal size 1.07 Cu. m/100 Sq. m	460 Sq.m

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SPECIFICATIONS FOR WORKS

1. The work shall in general, conform to the CPWD specifications for the works at Delhi 2009 Vol I, II, with up to date correction slips. 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 later shall prevail. In case of items not covered by the general specifications referred to a bove or particular specifications attached reference shall be made to the appropriate B.I.S. code and the decision of the Superintending Engineer/ Executive Engineer shall be final and binding on the contractor.

2. The expression CPWD specifications for wo rks at Delhi for 2009 wherever occurring in these specifications shall mean the CPWD specifications for the work at Delhi 2009 Vol. I, II with up to date corre ction slips if any .

3. The rates for different items of work shall be for all heights and depths, except where otherwise specified.

4. R.C.C. & Plain Cement Concrete work:

a] Hard stone aggregate of different sizes shall be crushed or broken from hard stone conforming to CPWD Specification for work subject to para 5 below. Where CPWD specifications for R.C.C. or any item or work are silent, the provisions of the Latest Code of Bureau of Indian Standard 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.

b) 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. The payment for the centering and shutt ering 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 project or otherwise. All exposed edges shall be finished as per specific ations without extra payment.

5. Sand and hard Stone/Aggregate:

a) 20mm or down gauge broken or crushed stone aggregate wherever required shall be from NEAREST APPROVED QUARRY and the material to be inconformity with the CPWD specifications.

b) 40mm gau ge stone aggregate broken or crushed wherever required shall be from. NEAREST APPROVED QUARRY and the material to be inconformity with the CPWD specifications.

c) SAND: -The sand used in various items of work shall generally conform to the CPWD sp ecificatio ns for works 2009 Volume -I with UP TO DATE correction slips.

The sand to be used in brick masonry, concrete and R.C.C. shall have a fineness modulus of not less than 2.5 except for items otherwise specified in schedule of quantities and CPWD specificatio ns and shall be obtained from

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NEAREST APPROVED QUARRY and the material to be inconformity with the CPWD specifications.

The sand used in items where use of 'Fine Sand' is mentioned in schedule of quantities and in all items under 'Finishing' (s hall have a fineness modulus of not less than 1.0) and shall be obtained from NEAREST APPROVED QUARRY.

6. Steel Rolling Shutters /M.S. Garage doors .

(a) Rolling shutters should be in general conforming to the detailed specifications In Delhi CPWD Specification 2009 Vol -I except for details as under: -

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 grad e 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 e nds 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 cont ractor 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 fo r 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.

(b) Garage doors with frames should be provided as per t he relevant drawing and in accordance with the details provided in the item.

7. Assembling and erection of the tubular cum structural steel trusses over column etc.

The drawing for different components of steel trusses, purlins, etc. including accessories will be supplied by the Corporation to the contractor as he should see before quoting his rates, Before assembling the members, the contractor should remove the rust and clean them properly, straighten kinks, and form screw threads etc. for which nothin g extra shall be paid. The completed truss work shall be true to the alignment to the entire satisfaction of Engineer -in -Charge. Any rectification required to get the truss work and purlins etc. to the proper alignment shall be carried out by the contracto r without any extra payment. If any of the components of the tubular trusses or purlines or accessories are lost while in the custody of the contractor, the loss shall be made good by the contractor at his own cost.

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Payment on weight basis wou ld be made as per the theoretical or actual weight whichever is less.

8. A.C/CG.I. Aluminium sheet /Galvalume sheet/pre -painted polyester coated sheet roofing shall be completely leak proof and to the entire satisfaction of the Engineer -in -Charge. The cont ractor shall have to provide the overlap s as per the specifications of the relevant items and the sheets to be inconformity with the relevant codes as mentioned in the items. The measurement of the items of the sheeting will be done as laid down in the la test CPWD specifications/BIS Codes/as per the item.

9 . The testing fee for cement concrete cubes, bricks, sand steel and other building materials, if any, shall be borne by the Corporation but the cost of such samples, consumed in the testing and cartage charges from site of work to testing laboratory etc. shall be borne by the contractor and no claim on this account shall be entertained. Safe handing over of such samples of building material will be the responsibility of the contractor.

10 . Nothing extra shall be paid for rough cutting of bricks/stones for forming gable walls tapered masonry in long walls, gable/partition walls footing etc.

11 . Top of platform coping shall be given a brush finish, if required, for which no extra payment shall be made.

1 2 . The rate for roofing includes cutting of chases in masonry walls and filling the same with cement concrete as directed by the Engineer -in -Charge for fixing the roof ing sheets over the platform. Nothing extra shall be paid for the same.

13 . The cost o f supplying bitumen is included in the items of applying bitumen on Damp proof course.

14 . The rate to be quoted for making plinth protection should include cost of necessary earth work in excavation/filling and disposal of earth within a lead of 50 mete rs as directed by the Engineer -in -Charge.

15 . The rate for steel windows, ventilators etc. include cost of all the fittings complete including M.S. Oxidised stays, handles etc. and nothing extra shall be paid for the same.

17. Brick Masonry Wall.

(a) Al l brick Masonry work as mentioned in this schedule of quantities shall be done with the available size of F.P.S. Bricks confirming to CPWD specification Vol I 2009 -with up to date correction slips. For the measurement of the brick work, it would be in th e multiple of the half brick. Above three bricks, the brick work would be measured as per the actual thickness.

(b) The 'Modular bricks' "shall only be used where use of same is specifically mentioned in the relevant items." In such cases the modular Bri cks shall also conform to CPWD specifications Vol I 2009 with up to date correction slips and mode of measurement would be the same as mentioned above in 'a'.

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18. Road Work:

(a) In addition to the provisions para 1 above, the standard specifica tions and code of practice for water Bound Macadam as per I.R.C : 19 -1977 shall apply to all road work.

(b) The stone aggregate of Grade I, II & III as specified under the sub work of 'Roads' shall conform to IRC. : 19 -1977.

Electrical Works:

Work for t he external and internal electrification would be carried out in accordance with the respective CPWD Specifications – Part II 1994 (External) & Part -I 2005 (Internal) with up to date correction slips respectively and correspon ding Delhi Schedule of Rate 20 07 (Internal) and 2007 (External) would be followed.

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ADDITIONAL CONDITIONS

1. The contractor will have to make his own arrangement for tools and plants required for the work and the Corporation will not supply any tools and plants unless otherw ise specified.

2. The contractor must see the proposed site for the work with its surroundings and study specifications and conditions of the tender carefully before tendering. No claim of any sort shall be entertained on account of any site condition or ignorance of specifications and conditions. 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.

3. The tenderer should see the approaches , surroundings and conditions of the sites in case any approach from main road is required at site or existing approach is to be impr oved and maintained for cartage of building materials by tenderers the same shall be provided, improved and maintained by the successful tenderer at his own cost and nothing shall be paid for the same .

4. The contractor shall make his programme 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.

5. The contractor shall quote his rate taking into account the restric tions, 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 sa me shall be paid by the contractor. No claim or compensation on this account shall be entertained from the contractor.

6. 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 places 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.

7. Royalty at prevalent rates shall have to be paid by the contractor on all the boulders, stone metal shingle sand, earth and bajri etc. selected by him for the execution of the work direct to the concerned authorities. In case of any demand is raised by the authority concerned for producing the receipt of royalties paid on such materials then contractor would be bound to produce the same receipts to the authorities concerned and get a no dues clearance certificate from him. As required by the EXECUTIVE ENGINEER con cer ned, no dues clearance certificate from the authorities concerned would necessarily be produced by the contractor to him. No claim for extra payment on this account will be admissible.

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8. The contractor must take all precautions to avoid accid ents by exhibiting day and night necessary caution boards, speed limit boards, red flags and red lights and providing barriers. He shall be responsible for all damage and accidents caused due to negligence on his part. No hindrance shall be caused to traff ic during execution of work.

9. 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.

10. The contractor shall maintain in good conditio n all work executed till the completion of entire work allotted to the contractor.

11. No compensation will be payable to the contractor for any damage caused by rains windstorm or floods during execution of work. He should make good all such damages at his own cost and no claim on this account will be entertained. 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.

12. The 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.

13 **. Material obtained from the dismantlement:**

The contra ctors, in the course of their own work , should understand that all materials e.g. stone and other materials obta ined in the work of dismantling and excavation etc. will be considered Central Warehousing Corporation 's property and would be issued to the con tractor (if they require the same for use in the work) at the rates approved by the Chief Engineer/ Superintending Engineer/ Executive Engineer , as the case may be.

14. Income tax as well as works contract tax or any other tax/ levy as applicable by the Ce ntral / State Govt. shall be recovered on the gross amount of each bill

15. The prices quoted are inclusive of all applicable taxes except GST. GST shall be paid extra at applicable rates subject to submission of tax invoice as per rules under GST Law

16 . The work shall be carried out in a manner complying in all respects with the requirements of prevalent byelaws of the local Municipality/Municipal Corporation.

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17. It shall be obligatory for the contractors to submit purchase vouchers for the bitumen, steel meant for reinforcement for R.C.C. work along with the Test Certificate and paint brought at site for use in the work pertaining to the items incorporated in the contract. It may be noted that no payments shall be released for the items incorporated in the work if the purchase vouchers for the above items brought at site by the contractors are not produced.

18. The contractor shall procure steel re -enforcement bars conforming to relevant BIS Codes from BIS approved licence holder/manuf acturer. TMT bars procured from BIS approved licence holder/manufacturer shall meet the provision of I.S 1786:2008 pertaining to Fe 415D or Fe 500D as per the item/drawing.

19. T he contractor shall procur e PozzolonaPortland C ement (PPC) conforming to B IS Code -1489 Part -I as required in the work, from reputed manufacturers of cement having a production capacity of one million tonnes or more such as ACC, Ultra Tech. , J.P.Rewa , Vikram, SriCement, Lafarge cement, Mycem cement, Birla cements , Prism Cement, Am buja Cement & Cement Corporation of India etc., i.e. agencies approved by Ministry of Industry, Govt. of India and holding licence to use ISI certification marks for their products. It is obligatory for the contractor to submit the purchase voucher for cem ent along with the manufacturers test certificate forcement . Contractor may also use Ordinary Portland Cement in place of PPC only after written permission of the Engineer - In - charge. In such case, no extra payment shall be made in any form to the Contrac tor by the Department/Corporation.

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CONDITIONS FOR ISSUE OF MATERIALS

1. The materials will be issued to the contractor at the place of delivery as mentioned in the Schedule of Materials. If these are delivered at any other site, the difference in cartage will be adjusted under clause 12 of the contract.

The contractor shall have to cart at his own cost the departmental materials to be issued on issue rates from place of issue to the site of works as these are issued. The Materials would be issued during the working hours and as per rules of the Central Warehousing Corporation as framed from time to time.

2. The contractor shall be fully responsible for the safe custody of or damage of materials issued to him even if the materials under double lock system as per para 6 below.

3. The materials contemplated to be issued will be issued in available sizes and lengths and the con tractor(s) shall bear the cost of cutting and shaping according to the requirements of the work and wastage on account of the same. No claim shall be entertained in this connection.

4. Cement bags shall be stacked by the Contractor in separate godowns constructed by him having weather proof, root floors, walls and on a proper floor consisting of the layers of dry bricks or ston e slabs laid on wall consolidated earth at the level of at least 0.30 meter above ground level. These stacks shall be in rows of two bags deep and ten bags high with minimum of 0.60 meter clear space alround. The bags shall be placed horizontally continuou s in each line as shown in accompanying sketch on page 141 .

5. The size of the cement godown indicated in the sketch is only for the guidance and the actual size of the godown shall be constructed as per site requirements and approval of Engineer -in -Charg e and nothing extra will be paid for the same.

6. Cement shall be kept under double lock system in godown fixed with the door. The key of one lock shall remain with the representative of the Engineer -in - Charge at the site of work and that of the other w ith the contractor or his authorised agent. Day to day receipts and issue accounts of cement shall be maintained in the prescribed register and signed by the contractor or his authorised agent.

7. The contractor shall construct suitable godown at the site or work for storing the materials safe against damage by sun, rain dampness, fire, theft etc. at this own cost and also employ necessary watch and ward establishment for the purpose at his own cost. Material to be charged directly to work and stipulated pl ace of issue free of cost shall also be issued to the contractor as soon as it is received at site or stipulated place of issue and provisions of this clause will equally and fully be applicable to the same.

8. The incidental charges of any kind whatsoeve r. Including cartage, storage, cutting and wastage etc. shall be borne exclusively by the contractor and nothing extra shall be paid to him on this account.

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CONDITIONS FOR ISSUE/USE OF BRICKS

After completion of the work the theoretical quantity of bricks to be used on the work shall be calculated on the basis given below. Over this theoretical quantity a variation of 5% shall be allowed for wastage due to breakage for which a separate account would be maintained by the Engineer -in-Charge. Stateme nt showing quantities of bricks to be used in different items of work: --

S. No.	Description of item of work	Unit	Number of bricks of size 22.9cm x 11.3 cm x 7.0 cm required
1	Brick work in foundation plinth, superstructure etc.	Cubic Meter	494 Nos.
2	Ha lf brick masonry	Ten Sq. metre	565 Nos.
3	Extra for brick in circular pillars	Cubic metre	141 Nos.
4	Extra for brick work curved on plan upto a mean radius not exceeding 6 metres	Cubic metre	36 Nos.
5	Extra for making tapered surface	Sq. metre	19 Nos.
6	Brick work 3" thick in walls and partitions	Ten Sq. metre	377 Nos.
7	Brick on edge flooring in cement mortar	Ten Sq. metre	565 Nos.
8	Dry Flat brick flooring 3" thick	Ten Sq. metre	410 Nos
9	7.6 cm thick brick drip course	Ten Metre	43 Nos.
10	Brick e dging in full brick width and half brick depth	Ten metre	118 Nos.
11	Brick edging length wise with half brick depth	Ten metre	49 Nos.
12	Dry brick pitching half brick thick in drain etc.	Ten Sq. metre	646 Nos.
13	Dry brick flooring on edge	Ten Sq. metr e	646 Nos.
14	Brick flooring in cement mortar (Brick flat 3" thick)	Ten Sq. metre	377 Nos.
15	Brick masonry chamber	Each	40 Nos.
	a) 30 x 30 x 50 cm	Each	240 Nos.
	b) 60x60x75 cm		

Note: For any other item of brick work not covered up in the above state ment, the Engineer -in-charge shall decide the theoretical quantity of bricks required for such items and his decision shall be final.

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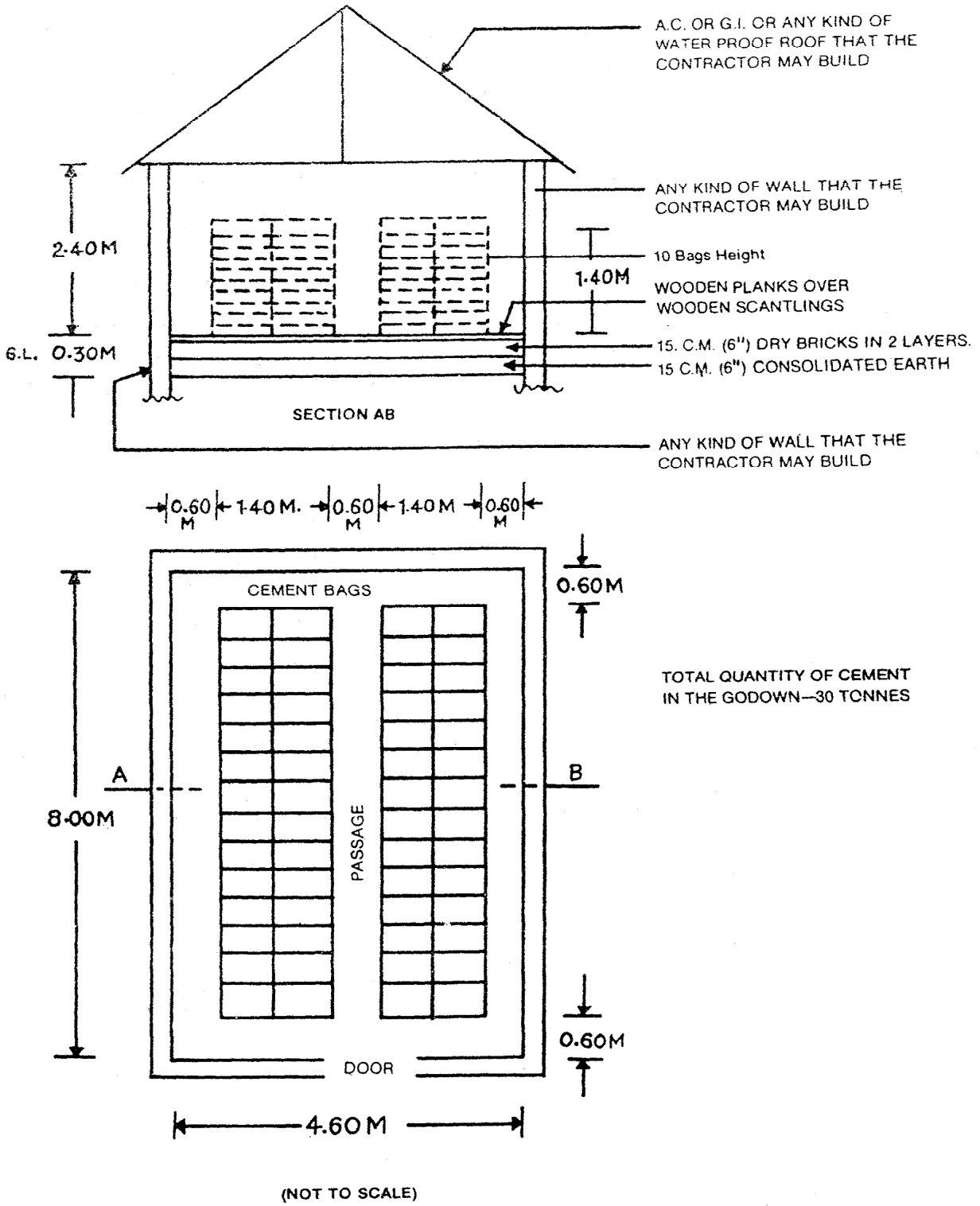
SKETCH OF
TYPICAL CEMENT GODOWN AT THE SITE OF WORK



TOTAL QUANTITY OF CEMENT IN THE GODOWN—30 TONNES

(NOT TO SCALE)

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PROFORMA FOR THE CEMENT REGISTER

Date of receipt	Particulars of receipt		Date of issue	Particulars of issue			Total issues	Daily balance in hand
	Quantity receipt	Progressive total		Qty. issued	Item of work for which issued	Qty. returned at the end of the day		
1	2	3	4	5	6	7	8	9

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CENTRAL WAREHOUSING CORPORATION
(A GOVT. OF INDIA UNDERTAKING)

Agreement for Item / Percentage Rates for works

This Agreement for execution of work executed at_____ this day of the _____200 by the Central Warehousing Corporation, New Delhi - 16 established under Warehousing Corporation Act, 1962 (hereinafter called 'the' Corporation) and M/S _____ _____a partnership firm from consisting of partners namely (i)_____ (ii)_____ (iii)_____/company registered under companies Act/individual carrying on business in the name and style of _____ _____(hereinunder called "contractor" which term shall mean and include unless repugnant to the context his/ their executors. Administrators, 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 havin g 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 t ime being enforce shall form an integral part sole repository of the terms and conditions of this contract.

In witness where of the aforementioned parties to the contr act have affixes their signatures.

Contractor	For and on behalf of the Corporation
Witness & address	Witness & address
1.	1.
Dt.	Dt.
2.	2.
Dt.	Dt.

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ADDITIONAL CONDITIONS WHERE DEPARTMENTAL ISSUE OF CEMENT AND STEEL IS NOT STIPULATED CONDITIONS FOR CEMENT

1. The contractor shall procure Pozzolona Portland Cement (PPC) as per IS 1489 -Part -I as required in the work from reputed manufacturer of cement having a production capacity of one million tonnes or more such as ACC, Ultra Tech., J.P.Rewa, Vikram, SriCement, Lafarge cement, Mycem cement, Birla cements, Prism Cement, Ambuja Cement & Cement Corporation of India etc. i.e. agencies approved by Ministry of Industry, Govt. of India and holding licence to use ISI certification mark for their products. Cement from mini cement plant shall not be used in work. The tenderers may submit a list of names of cement manufacturers which they propose to use in the work. The tender accepting authority reserve the right to accept or reject name(s) of cement manufacturer(s) which the tenderer propose to use in the work. No change in the tender rates will be accepted if tender accepting authority does not accept the list of cement manufacturers given by the tenderer fully or partially. Supply of cement shall be taken in 50 kg bags bearing manufacturers name and ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in-Charge and got tested in accordance with provision of relevant BIS codes. In case, test results indicate that the cement arranged by the contractor does not confirm to the relevant BIS codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-charge to do so.

Contractor may also use Ordinary Portland Cement in place of PPC only after written permission of the Engineer In-charge. In such case, no extra payment shall be made in any form to the Contractor by the Department/Corporation.

2. The cement shall be brought at site in bulk supply of approximate 50 tonnes or as decided by the Engineer - in-charge.

3. The cement godown of the capacity to store a minimum of 2000 bags of cement shall be constructed by the contractor at site of work for which no extra payment shall be made. Double lock provision shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer-in charge or his authorized representative and the key of the other lock shall remain with the contractor. The contractor shall be responsible for the watch & ward safety of the cement godown. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-charge at any time.

4. The contractor shall supply free of charge the cement required for testing. The cost of tests shall be borne by the contractor/Department in the manner indicated below:

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i. By the contractor, if the results show that the cement does not confirm the relevant BIS codes.
ii. By the Department , if the results show that the cement confirms to relevant BIS codes.

5. The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of cement s hall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein.

.

6 .OPC Grade 43 cement Shall only be used in cement Concrete pavement works.

7 . Test for beam flexural strength shall be conduc ted in accordance with IS:516, and as per details given in CPWD Specifications 2009 Vol -II.

8 The details of ceiling Compound given in item as well as in the specifications.

9 .Panelling of the cement concrete pavement shall be considered as 27 to 30 m longitudinally and 3.5 to 4.00 m laterally depending up on the length and width of the roads.

10. Cement brought to site and cement remaining unused after completion of work shall not be removed from site without written permission of the Engineer -in-char ge

CONDITIONS FOR STEEL

1. The contractor shall procure steel reinforcement bars from BIS approved licence holder/manufacturer s.

For TMT bars procured from BIS approved licence holder/manufacturer s shall meet the provision of IS 1786:2008 pertaining Fe 415 D or Fe 500D as per the item/drawing. The contractor shall have to obtain and furnish testcertificates to the Engineer -in-charge in respect of all supplies of steel brought by him to the site of work. Samples shall also be taken and got tested by the Engin eer -in-charge as per the provisions in this regard in relevant BIS codes. In case, test results indicate that the steel arranged by the contractor does not confirm to the relevant BIS codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer in charge to do so.

2. The steel reinforcement shall be brought at site in bulk supply of 10 tonnes or more or as decided by the Engineer in Charge.

3. The steel re inforcement 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 and lengthsshall be stored separately to facilitate easy counting and checking.

4. 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 not less than that specific below:

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Size of bar	For consignment below 100 tonnes.	For consignment over 100 tonnes
Under 10 mm dia.	One sample for each 25 tonnes or part thereof.	One sample for each 40 tonnes or part thereof.
10 mm to 16 mm dia .	One sample for each 35 tonnes or p art thereof.	One sample for each 45 tonnes or part thereof.
Over 16mm dia.	One sample for each 45 tonnes or part thereof.	One sample for each 50 tonnes or part thereof.

5. The contractor shall supply free of charge the steel required for testing. The cost of tests shall be borne by the contractor/Department in the manner indicated below:

i. By the contractor, if the results show that the steel does not conform the relevant BIS codes.

ii. By the Department, if the results show that the steel conforms to relevant BIS codes.

6. The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in cl ause 42 of the contract and shall be governed by conditions laid therein.

7. Steel brought to site and steel remaining unused after completion of work shall not be removed from site without written permission of the Engineer -in-charge.

Note:

1. Criteria for acceptance of steel items strictly as per relevant B.I.S codes
2. Payment for steel items by weight shall be least of theoretical and actual weights.

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SPECIFICATIONS FOR SELF SUPPORTED ARCH SHAPED GALVALUME STEEL SHEETS ROOFING

The steel sheets shall be 914 mm wide (tolerance ± 2.00 mm) which shall be curved and moulded at site using mechanical press and dies to the desired curves and shape to form 605 mm (approx.) wide interlocking panels. These panels shall be erected in posit ion and their seams shall be interlocked and press to close the seam forming at water tight joint. Minor colour chipping/scratching should be rectified by applying Epoxy Lacquer. Necessary arrangement including supply for the installations of the fasteners at the end will be there in the scope of the work of the contractor. The installation should be done by mechanized methods. The Contractor has to mobilise required number of Hydra for internal transportation of sheets and Cranes for the erection of seame d sheets.

Adequate precautions shall be taken by the Contractor during the installation process for the safety of their workers. Safety belts, helmets and other safety equipments for the execution of the job must be used, wherever required. Working in hi gh panel's installation process shall not be carried out in case of wind velocity at site is above 22 kms/hr.

The plan for execution the arch -shaped roofing system must be submitted to CWC for approval before the installation of the sheets at the site by the contractor.

The Contractor shall make provisions for hangers and clamps etc. for providing light fixtures in the roof wherever required. The contractor shall make its own arrangements of generator/ 3 phase power supply connection for the use of cranes & seaming machines etc. However if electricity connection already exists in CWC complex then contractor can be given electricity temporarily from CWC on payment basis as per the cost of the units consumed by contractor (to be decided by CWC) witho ut carrying any damage to cables and fixtures in the complex, exclusively for roofing work.

1. Scope of work:

It includes the following;

(i) Supply, fabrication and installation of Arch shaped galvalume steel sheets roofing as per specification mentioned hereby.
(ii) Supply and installation of complete accessories i.e. light hangers, turbo ventilators, sky lights etc. complete and contractor would submit the plan for location of turbo ventilators and translucent sheets etc. for approval of CWC before start of t he work.

2. Details of godowns :

(a) Span: 21.80 meter centre to centre
(i) Length: **126.00** meter centre to centre for standard 5000MTC godown.
(ii) Arch rise: 4.36 meter above tie beam.
(iii) Height at eave: 5.48 meter .

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3. (a) Technical specifications for g alvalume steel sheets to be arranged from the manufacturers of International market :

- Steel grade: D
- Standard: Colour coated galvalume steel sheets complying to ASTM A792
- Coil width: 914mm, tolerance ± 2.00mm
- Base metal thickness (BMT): 1.00 mm (toler ance as ± 0.02mm) for 21.80 m C/C span
- Total coated thickness (TCT): 1.075 mm (tolerance as ± 0.02mm) for 21.80 m C/C span
- Alloy coating: AZ150 (150 gram/Sqm) minimum (Aluminium 55%, Zinc 43.5%, Silicon 1.5%)
- Yield strength: 350 MPa
- Paint coating: Regula r modified polyester
- Top coat of painting: 25 micron minimum (colour 20 micron and primer 5 micron)
- Bottom coat of painting: 12 micron minimum (colour 7 micron and primer 5 micron)
- Colour pattern: Combination of blue and white (ratio 50% each) or any other colour pattern decided by CWC before placing the work order.
- Colour code: For blue would be RAL 5012 and for white RAL 9002 and relevant codes for other colours.

  The colour pattern and code would be got approved from CWC before supply at site.

(b) Make of G alvalume Steel Sheets:

Any of the following from the International Market.

- ThyssenKrupps, Germany
- Dongbu Steel Co. Limited, Korea
- Corus Steels, U.K.
- Dofasco Steels, Canada.
- Bethelehem Steels, U.S.A.
- Blue Scope, Australia
- Any other licensed manufacturer /producer, who is the member of Zinc Aluminium coaters (ZAC) Association.

  The manufacturer shall be ISO certified and follow international standards for Galvalume sheet roofing.

Contractor needs to submit warranty for a minimum period of 10 years from th e date of supply of Galvalume sheets at site from the principal Galvalume steel manufacturer. The steel sheet producer from international market should have an experience of minimum 5 years in manufacturing this type of Galvalume Steel and document substan tiating the same should be submitted with the warranty at the time of supply of sheets at site.

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(c) Inspection & Testing:

Once the material is received by the contractor in India the same will be inspected by the inspection team of CWC and samp les shall be drawn from the same for testing.

Before the sheet is used for roofing at site, these samples will be tested at a reputed laboratory for the following: -

- Base metal thickness
- Coating mass (AZ150)
- Yield/tensile strength
- Top & bottom coat thi ckness

Charges for the same, if any, shall be borne by the contractor. Besides this, the contractor also needs to submit the material test report from the steel mill supplier for each steel coil.

(d) Fixtures:

The fixtures like anchor fasteners, standard light hangers, turbo ventilators, and Skylights shall be designed to suit the requirement of CWC.

A godown of 5000 MTC of length 126.00 mt. (centre to centre) would have 30 Turbo Ventilators. Skylights with 2 mm thick Polycarbonate sheet of size 2 ft X 14 ft to be installed at the distance of about 30 ft. along the length of the godown, as per the requirement of the design and instruction of engineer incharge.

(a) Synchronization of Job

The contractor should ensure that the Galvalume sheeting material and installation machinery are available at construction site timely as soon as the RCC tie beam is laid in the godown.

4. Since the manufacturing of galvalume sheets has been started indigenously as such the specifications for arranging the sheets by the cont ractors from the Manufacturers of National Market would be as under:

(a) Technical Specification for colourbond pre – painted / zincalume/ Aluminium Zinc Alloy metallic steel sheet roofing .

Steel Grade	:G - 350 as per latest BIS Code:15961
Standard	:Colour coa ted Zincalume/Galvalume steel sheets as per latest BIS Code:15965 type - III.
Coil Width	:914 mm,tolerance +3.00 mm.
Base Metal Thickness:1.00(tolerance as per latest BIS Code :513.	
Alloy Coating	:AZ 150(Minimum 150 Gm/Square Meters) (Aluminium 55%, Zinc 43.5%, Si 1.5% by weight)
Yield Strength	:Minimum 350 MPa as per latest BIS Code :15961
Painting Coating	:Super Durable Polyester with inorganic pigment and shall be free from heavy leads.
Top Coat of Painting	:25 microns minimum(colour 20 microns and pr imer 5microns)
Bottom Coat of	:10 micron minimum (service/backer coat colour 5

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Painting microns over primer 5 microns)

Colour Pattern :Combination of Blue/Sky blue and surf mist white (ratio 50% each) or any other colour pattern decided by CWC.

Colour Code :For Blue would be RAL 5012/sky Blue Colour and for white RAL 9002/Surfmistcolor.

The colour pattern and code would be got approved from CWC before supply at site.

(b) Make of colour bond/pre -painted galvalume/ zincalume ste el sheets:

Any of the followi ng from the National Market

Tata Blue Scope Steel Limited, India (Subject to ZAC membership)
JSW Ispat Industries Ltd. (Subject to ZAC membership)
JSW Ltd. (Subject to ZAC membership)

Or any other National manufacturer hav ing the ZAC membership. In case contractor fails to produce the ZAC membership of the manufacturer, valid as on date of supply of material including the above mentioned manufacturers, then their products /sheets will not be accepted.

The manufacturer shal l be ISO certified and following international standards for sheet roofing and the sheets must inkjet printing at back on regular interval indicating the name of manufacturer, product thickness, coating mass, date of manufacturing etc. especially with the domestic manufacturers.

Since, the manufacturing of these sheets appears to have been started in the National market indigenously by some of the companies as mentioned above recently, as such the condition for their manufacturing experience of last 5 year s, as mentioned in case of International manufactures, would not be applicable on them. However, the condition of warranty for 10 years by the manufacture would be applicable to these manufacturers.

The inspection and testing of the sheets would be as per the provisions in the para 3(c)

5. Rates:

The rate for the Galvalume sheet roofing mentioned against the item in the schedule of work shall be inclusive of roofing sheets, fasteners, turbo ventilators, translucent sheets, hangers, fabrication and in stallation complete. The payment shall be made as per the actual dimension of the laid roof.

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6 . Technical specifications of turbo ventilators:

Model	Standard
Central dia. of vanes	28 Inch (710mm)
Neck/Throat Diameter	21 Inch (5 30mm)
No. of Vanes(Blades)	36 Inch Vanes
Height	19 Inch (480mm)
Capacity at 25 ft height	1850 CFM
Base Ring	Stainless Steel
Top Cover	Stainless Steel
Top Plate MOC (material of construction)	Aluminium 1 mm Thickness Alloy 8011 H2
Vanes MOC	Aluminium 0.635mm Thickness
Bottom Ring	Aluminium 1.27mm Thickness
Rotation	Pivot bush support without Bearing
Pointer MOC	10 mm dia EN -8 with Electroplating
Center Shaft	Derline black (Hardest PTE grade)
Inner Arms	M.S. 20mm with Electropla ting
Outer Arms	M.S. 20mm dia with Electroplating
Center Pipe	M.S. 20mm with Electroplating
Nett. Weight	5.8 Kgs. (Apporx.)
Packing	As per requirement
FRP Ventury Dome (Fibre reinforced plastic)	Chopped Strand Mat reinforced with Polyester Res in (1.5 mm thickness)
Miscellaneous Items Like Nut, Bolt, Washer etc.	M.S. with Electroplating or Zinc plating or Galvanised

- Powder Coating is done with Epoxy Polyester Powders for excellent corrosion resistance

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Additional conditions

a) Contr actor shall be responsible for any leakage across laps, from roof, through fasteners etc. complete for a period of two years from the date of completion of work. He shall rectify all the leakage points at his own cost during this period. Security deposit to be deducted at the rate mentioned in the clause 1 of Contract Conditions, for the item of Galvalume sheet roofing, shall be released after two years of completion of the work.

b) The Contractor need s to submit a self -certificate that the Galvalume Coils to be used by them would be suit able for Self Supported Roofing .

c) If any defect in Galvalume sheets is noticed during warranty period, same would be set right by the contractor within 10 (Ten) days after its reporting to the contractor, failing which Comp etent Authority in CWC reserves the right to get the work executed and amount so incurred would be recovered from the contractor from this contract as well as from any of the amount available from any other contract of the contractor and no claim on this account shall be entertained.

d) Contractor shall make his own arrangement of generator / electric supply for the machinery to be used in fabrication and installation of roofing etc. at site. If electric supply is available in CWC -complex then contractor ca n use the electricity and he has to make the payment to CWC on market rates for the actual electric units consumed by him/them as decided by CWC, exclusively for the work of roofing.

e) All safety precautions should be taken by the contractor during the exec ution of work for ensuring the safety to the labourers/workers.

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NOTE AND OTHER DETAILS FOR CONTRACTORS: -

1. Bidder must upload and digitally sign the scanned copies of above referred documents in support of their legibility of bid. In the event of any document found fabricated/forged/tampered/altered/manipulated during verification, then the EMD of the bidder shall be forfeited and he/they himself/themselves would disqualify for future participation in the tenders of Central Warehousing Corporation works for the next 05 (Five) years.

2. Bidders who wish to participate in the e -tendering will have to procure valid digital certificate as per Information Technology Act, 2000. Bidders can procure this certificate from any of the Government approved certify ing agency i.e., Consultancy Services.

3. DOWNLOADING OF TENDER DOCUMENT: - The tender document for this work is available only in electronic format which bidder can download free of cost from the above mentioned website.

4. SUBMISSION OF TENDER: - Tenderer shal l submit their offer in electronic format on the above mentioned website on or before the scheduled date and time as mentioned above after digitally signing the same. No offer in physical form will be accepted and any such offer, if received by Central War ehousing Corporation will be out rightly rejected. Bidder will have to submit EMD , cost of tender and tender processing fee as per the details mentioned in the NIT/tender notice.

INFORMATION FOR ONLINE PARTICIPATION AND GENERAL CONDITIONS

5. Internet site address for e -Tendering activities will be **www.tend erwizard.com** and www.cewacore.nic.in

6. Bidders who wish to participate in online tender have to register with the website through the "new user registration" link pr ovided on the home page. Bidder will create login I.D. and Password on their own registration process.

7. The digital signature certificate is normally issued within two working days. The interested bidders are requested to apply for the same well in advance .

8. Bidders who wish to participate in e -tender need to fill data in pre -defined forms of Technical Bid, Price Bid and Excel format only.

9. Bidders should upload scanned copies of documents in support of their eligibility of the bid.

10. After filling data in p re-defined forms, bidders needs to click on final submission link to submit their encrypted bid.

11. The tenders are to be submitted in two parts, Part -I containing Technical Specifications and Part -II containing financial offer (Part -I & Part -II) i.e. Techni cal Bid and Price bid through e -tender process only.

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12 . Intending tenderers are advised to visit the place of operations for acquainting themselves with the nature of work in their own interest before submitting the tender.

13 . No definite volume of w ork to be performed during the currency of the contract can be guaranteed by Central Warehousing Corporation

14 . Registered Labour Coop. Societies should furnish the proof of Registration with Registrar of Coop. Societies or Taluk Coop. Officer along with a resolution passed by the Society to participate in the tender enquiry.

15 . The Central Warehousing Corporation reserves the right to accept/reject the tenders without assigning any reason; the decision of the Corporation shall be final and binding on tender.

16 . Solvency proforma given below

Any clarification regarding online participation, they can contact : -

M/s Karnataka State Electronics Development Corporation Ltd.,
No. 29/1, Race Course Road,
Bangalore - 560001

For local assistance, may call following hel p line numbers at
Bangalore: 080 - 40482000

For local assistance at Chennai , Mr. Madan :09941947400
For assistance at Hyderabad: Mr. Guru Prasad : 09959718831
For assistance at Thiruvananthapuram : Mr. Praveen Kumar : 09745437834

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Annexure - I

Terms for Micro & Small Enterprises to be included in the Tender

(a) Tender document shall be provided free of cost to Micro & Small enterpr ises(MSEs).

(b) MSEs registered with the agencies for the item/s tendered will be exempted from payment of Earnest Money Deposit(EMD).

(c) MSEs who are interested in availing themselves of these benefits and preferential treatment, will enclose with their offer the proof of their being registered for goods produced and services rendered with any of the agencies mentioned in the notification of Ministry of MSME indicated below along with the bid.

(i) District Industries Centers
(ii) Khadi and Village Industries Commission
(iii) Khadi and Village Industries Board
(iv) Coir Board.
(v) National Small Industries Corporation
(vi) Directorate of Handicraft and Handloom
(vii) Any other body specified by Ministry of MSME.

(d) The MSEs must also indi cate the terminal validity date of their registration which should be valid as on last date of submission of tender. MSEs seeking exemption and benefits should enclose a attested / self -certified copy of valid registration certificate, giving details such as validity, stores / services etc. failing which they run the risk of their bid being passed over as ineligible for the benefits applicable to MSEs.

(e) The benefit as stated above to MSE, shall be available only for goods / services produced & provide d by MSEs for which they are registered.

(f) In case the MSE does notfulfill the criteria at Sr. No(c), (d) and (e) above, such offers will not be liable for consideration of benefits detailed in MSE notification of Government of India dated 23.03.12 and any other notification issued thereafter.

(g) Participating MSEs quoting price within price band of L1+15 percent shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from som eone other than a Micro and Small Enterprise and such Micro and Small Enterprise shall be allowed to supply upto 20 percent of total tendered value. In case of more than one such MSE, the supply will be shared proportionately (to tendered quantity). Howe ver, for procurement of services or supplies where quantity is not splittable or non -dividable, MSE quoting price within the price band or L1+15% may be awarded for full / complete supply of total tendered value.

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Annexure – II

Format of Solvency C ertificate

Format 1

No.....

To

.....

.....

This is to state that to the best of our knowledge and information,Mr. / Ms. / M/s ..... a customer of our Bank is respectable and can be treated as good up to a sum of Rs..... (Rup ees in words .....).
It is clarified that this information is furnished without any risk and responsibility on our part in any respect whatsoever more particularly either as guarantor or otherwise. This certificate is issued at the specific reque st of the customer.

Place: For BANK
Date: MANAGER

OR

Format 2

No.....

To

.....

.....

This is to certify that as per information available, Shri / Smt. / Ms....., is solvent upto Rs..... (Rupees ....). This certificate is valid for the period from ..... to ..... This certificate is issued without any guarantee or responsibility on the part of the Bank or any of its employees.

Place: For BANK
Date: MANAGER

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Annexure - III

Format of Net Worth

A. The Net Worth of Mr./Ms./M/s _____ for last Financial Year _____ is Rs._____ lakhs as per his/her/their books of Accounts.

(Note: Net Worth means sum tot al of paid up share capital plus free reserves. Further any debit balance of Profit and 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:

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Annexure - IV

COMPLIANCE TO BID REQUIREMENT

We hereby confirm that we have gone through and understood the Tender Document and our bid complies with the requirements / terms and 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 requir ed 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 co ntract 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 th e conditions of the Tender Document and for all the items .

Stamp and signature of the bidder : _____

Name of the bidder : _____

NOTE: To be stamped and signed by the authorized signatory who is signing the Bid and submitted alongwith the Technical Bid.

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Annexure - V

AFFIDAVIT
(For Sole Proprietary Firm)

I, ... R/o
.....
..... do hereby solemnly
affirm and declare as under : -
1. That I am Sole Proprietor of ..... (Sole
Proprietor Firm Name)

2. That the office of the firm is situated at
.....
.....

Place: DEPONENT

Date:

VERIFICATION
Verified tha t the contents of my above said affidavit are true and correct to
thebest of my knowledge and belief and nothing has been concealed there from.

Place: DEPONENT

Date:

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Annexure - VI

FORMAT FOR POWER OF ATTORNEY TO AUTHORIZED SIGNATORY
POW ER 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 and residential address) who is presently with us and holding the position of _____ and whose signature is given below as o ur 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 th e 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 an d things done by our aforesaid Attorney shall always be deemed to have been done by us.

(In H&T tenders in the case of Consortium/ Joint Venture)
Our firm is a Member/Lead Member of the Consortium of _____, _____ and _____.

Dated thi s 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 C ompany)(***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:

- In case the Firm/ Company i s a Member of a Consortium/ JV, the authorized signatory has to be the one employed by the Lead Member.
- 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 docu ments 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.

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Annexure -VII

Affidavit

AFFIDAVIT OF ...., S/o D/o _____, resident of _____ EMPLOYED AS _____ WITH ..... HAVING OFFICE AT ..... PIN..... I, the above named deponent do hereby solemnly affirm and state as under: -

1. That I am the authorized representative and signatory of M/s.....
2. That the document (s) submitted, as mentioned hereunder, by M/s ..... along with the Ten der Document submitted under covering letter no. ..... dated ..... towards Tender No. ..... for..... (Project) has / have been submitted under my knowledge.
3. That the document(s) submitted, as mentioned above, by M/s .... along with the Tender Document towards Tender No. ..... for ..... are authentic, genuine, copies of their originals and have been issued by the issuing authority mentioned above and no part of the document(s) is false, forg ed or fabricated.
4. That no part of this affidavit is false and that this affidavit and the above declaration in respect of genuineness of the documents has been made having full knowledge of (i) the provisions of the Indian Penal Code in respect of offen ces including, but not limited to those pertaining to criminal breach of trust, cheating and fraud and (ii) provisions of Tender conditions which entitle the CWC to initiate action in the event of such declaration turning out to be a misrepresentation or f alse representation.
5. I depose accordingly.

DEPONENT

VERIFICATION

I, ... the deponent above named do hereby verify that the factual contents of this affidavit are true and correct. No part of it is false and nothing material has been concealed there from.

Verified at ..... on this ..... day of .....20....

DEPONENT

Note: Affidavit is to be attested by Notary.

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SPECIFICATION FOR DIESEL GENERATING SET

1. SCOPE of Work:
This specification covers the technical requirements for the Diesel Generator Installation.

2. LOCATION:
Generating set is to be installed at Regional office, Central Warehousing Corporation, Nampally, Hyderabad, Telangana State. The set should be suitable fort operational at the following site conditions:

Height above sea level:	545 metres
Maximum ambient temperature:	45 °C
Relative Humidity;	60%
Minimum ambient temperature:	12 °C

The condition prevailing at site will be applicable.

3. REQUIREMENT:
The work of supply, installation, testing and commissioning of Diesel Generator set shall cover the following subject to requirements specified in the schedule.

- The DG set of capacity specified in the schedule shall be mounted on a common bed plate with all connected accessories.
- All piping works required as per the schedule for lubricating oil system, fuel system, engine cooling system and exhaust piping with insulation and cladding.
- Flexible connections if any in the above piping system.
- Starting equipment.
- Control cubicle and isolating facility as per schedule.
- Necessary set of vibration -isolation mountings as per schedule.
- All power and control cable works between control panel, alternator, and essential panel as per the schedule.
- Minor building work including cutting and making good, all clamps supports, grouting etc.
- Earthing, earth connection and loop earthing as per schedule.
- Any other work as specified in the schedule.

5. DIESEL ENGINE:
5.1 The engine shall be of multi cylinders, vertical four stroke cycle, water cooled type with or without turbo charger, diesel operated and running at 1500 RPM and developing suitable BHP at site conditions for giving a continuous output as specified at the load terminals of alternator exclusive of the power requirements of the auxiliaries. The engine shall have 10% overload capacity for any one hour during a 12 hours continuous run.

5.2 The diesel engine capacity shall be suitably de-rated as per BS/IS -10000 to suit the climatic conditions stipulated under clause 2 above.

5.3 Capacity rating shall be at site conditions and exclusive of power requirements for auxiliaries that will come on the engine while operating.

5.4 The engine should be complete with the following accessories and as per IS 1601 and IS 1002 amended up to date.

- Fly wheel dynamically balanced to suite flexible coupling.
- Necessary flexible coupling with guard between alternator and engine.
- Air cleaner.
- Corrosion inhibitor, if necessary.
- Radiator complete with hoses, fan, fan drive and guard.
- Daily fuel service tank of minimum 12 hour capacity at 75% loading.
- Fuel pump
- Necessary governor
- Starter motor as per manufacturers design and specifications.
- Set of starting batteries as per manufacturers design.

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- Fuel oil filter.
- Necessary engine cooling system, oil lubricating s ystem, fuel system.
- Turbo charger (exhaust gas driven) if any
- Instrument panel comprising of starting switch with key (Or push button arrangement), lub oil pressure gauge, water temperature gauge, battery charging ammeter, running hour meter with RPM indic ator. (This may also be integrated with control panel)
- Necessary control push/pull for speed adjustment
- Lub oil filter
- Safety control against low lub. Oil pressure, high cooling water temperature and over speed.
- Common bed plate with suitable foundation bo lts or suitable anti vibration mounting.
- Exhaust silencer, residential type with necessary pipe work.

5.5 Cyclic variation of set shall be within the time limit specified in BSS 649 and IS1601/1960.

5.6 The scope of work shall include provision of lubric ating oil circulation system for engine bearings.

5.7 Governor shall be centrifugal (Electro mechanical) and shall be self -contained unit capable of monitoring speed.

5.8 The speed variation from NO load to FULL load shall not exceed 4% and at any consta nt load including NO load shall remain within a band of 1.5% of rated speed corresponding to clause A2 governing of BS 649.

5.9 The fuel system shall be gravity fed to engine driven fuel pump. The replacement element of fuel filter shall be suitably locat ed to permit easy servicing.

5.10 The daily service fuel tank shall be built in type strictly as per the recommendation of the manufacturer.

5.11 Cooling system shall be of integral mounted radiator on common base plate with suitable vibration arresto r pads and brackets.

5.12 Starting system shall comprise of necessary set of batteries 12/24V DC, starter motor, axial type gear to match with the toothed ring on the fly wheel, protection system as per manufacturers design. Battery capacity shall be suit able for meeting the needs of the starting system as well as the requirements of control panel, indications and other auxiliaries. The scope shall cover all cabling, termination, initial charging etc.

5.13 Silencer shall be residential type.

5.14 Engine instrumentation shall be centralized on an instrumentation panel and resilient mounted on the engine.

5.15 Necessary engine protection devices for the following shall be provided.

- Low lubricating oil pressure.
- High cooling water temperature.
- Over speed shut down.

5.16 MS piping of adequate size shall be used for fuel oil piping and exhaust piping.

The pipe work shall be inclusive of all fittings and accessories such as valves, bends, reducers, elbows, flanges, flexible connections, necessary ha rdware etc. The installation shall cover clamps, supports, hangers, etc. as are necessary for completing the work. Welding, brazing will be permitted in the installation. However the work shall be

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sectionalized with flanged connections as are necessar y for easy isolation. All MS pipe for water line and exhaust line work shall be class B type. The exhaust pipe shall be insulated with mineral wool and aluminium sheet cladding.

5.17 Engine and alternator shall be mounted on a common bed plate together wi th all auxiliaries. Fabricated bed plate will be acceptable. The bed plate shall also be suitable for installation on suitable anti vibration mounting system.

6. **ALTERNATOR:**

6.1 The alternator shall be of brushless design and rated for a continuous outpu t as specified at 0.8Pf lag at 415V 3 Ph 50c/s suitable for 4 wire system exclusive of power requirement for auxiliaries. Windings are to be star connected and neutral shall be brought out through a separate terminal and will be solidly grounded. Speed of alternator shall match the engine for a direct drive.

6.2 The alternator shall be self -excited, self -regulated, and static excitation facility. The exciter unit shall be mounted on the control panel or on the alternator assembly. The rectifier shall be su itable for operation at high ambient temperature of the site.

6.3 The alternator shall be in accordance with the following standards as are applicable.

- IS 4722/BS 5000 – The electrical performance of rotating electrical machine.
- IS 4889/BS 269 – Rules fo r method of declaring efficiency of an electrical machine.

6.4 The performance of the alternator shall be as under:

- Voltage regulation from NO load to rated load shall be within a band of +/ - 5%or rated voltage. The frequency regulation from NO load to F ULL load shall be as defined by the engine governor.
- Voltage dip for any addition to load up to and including 90% load shall not exceed 23% of rated voltage and shall recover to and remain within the steady band in not more than 1.5 sec. Similarly the freq uency shall recover to the steady state band within 5 sec.
- The windings shall not develop hot spot exceeding safe limit due to an imbalance of 25% between any two phases from NO load to FULL load.

6.5 Alternator enclosure shall be screen protected drip pr oof (SPDP) conforming to IP 21 of IS 54691 -1968.

6.6 The terminal boxes shall be suitable for necessary PVC 1.1kV grade of UG cable conforming to IS 1554 Part 1. There shall be sufficient space for bifurcation inside the box. The box shall have removable gland plates. Suitable segregation shall be available for withstanding the mechanical and thermal stresses developed due to short circuit at the terminals.

6.7 Two numbers of earth terminals on opposite side with vibration proof connections, nonferrous ha rdware etc. with galvanized or plated and passivated washers of minimum 12mm dia shall be provided.

6.8 Voltage regulation of the alternator shall be automatic and compatible with excitation system described above.

6.9 The insulation of stator/rotor wind ings shall be Class -F or H or superior.

6.10 Where specified space heaters may be provided in the alternator to maintain the winding temperature such that it does not absorb moisture during long idle periods. The heater terminals shall be brought to a sep arate terminal box suitable for 30V AC supply and permanent caution notice "Isolate supply elsewhere before disconnection" be exhibited on the terminal cover.

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7. **CONTROL PANEL:**

7.1 The control panel shall be fabricated out of sheet steel, totally enclo sed, dust, and damp and vermin proof, free standing floor mounted and front operated type. It shall preferably be made into sections such that as far as feasible there is no mixing of control, power, DC and AC functions in the same section and they are suf ficiently segregated excepting where their coming together on unit like relay contactor etc. is necessary. Sheet steel used for fabrication shall not be less than 2mm thick. Hinged double leaf doors shall be preferred for easy access to routine inspection from the rear etc. There is no objection to have single leaf hinged door in the front. All indication lamps instruments, meters, etc. shall be flush mounted in the front.

7.2 A frame earth bus of copper strip shall be run at the rear of the board for conn ecting all the sections and all section shall be suitable bounded to the earth bus. Earth terminals shall be provided at the end for connections to earth system. Earth terminal shall be vibration proof with all hardware of non -ferrous/galvanized/plated and passivated in case of ferrous hardware.

7.3 Removable gland plates, sectionalized for receiving various cables that are toenter on to the section and un -drilled or with suitable knockout shall be provided at the bottom of the panel sections. Where heavy cables are tobe brought and terminated suitable clamps shall also be incorporated to relieve the stress on the glands due to the weight and bends of the cable covers.

7.4 Terminal blocks of robust type and generally not less that 15A capacity, 250V grade for DC and 660V grade for AC and rest of the junctions shall be employed in such a manner that they are freely accessible for maintenance. All control and small wiring from uit to unit inside the panel shall also be done with not less than 1.5 sq.mm copper conductor PVC insulated 660V grade cable. Suitable colour coding can be adopted. Wiring shall be neatly formed and run preferably function -wise and as far as feasible segregated voltage -wise. All ends shall be identified with ferrules at the ends.

7.5 Sp ace heaters if specified in the schedule shall be controlled by a separate control switch and protective fuses.

7.6 All internal components shall be provided with suitable engraved identification labels. Labels shall be fixed on push buttons indication la mps etc.

7.7 The entire panel shall be given primer coat after proper treatment and two coats of final paint of approved shade before assembly of various items.

8. **SYSTEM OPERATION**

The control cubicle shall incorporate equipment and system to afford operational requirements as under:

8.1 **AUTO MODE (applicable with AMF panel)**

1. A line voltage monitor shall monitor supply voltage on each phase. When the main supply fails completely or falls below set value (variable between 80% and 95% of the no rmal value) on any phase, the monitor module shall initiate startup of diesel engine. To avoid initiation due to momentary dips or system disturbance, a time delay adjustable between 0 to 5 sec. shall be incorporated in the startup initiation.
2. A three atte mpt starting facility shall be provided; 6 sec. ON 5 sec OFF -6 sec ON. If at the end of third attempt the engine has not already started and built up voltage the engine shall be locked out for start. A master timer shall be provided for the functions.

   S uitable adjustable timers shall be incorporated which will make it feasible to vary independently ON OFF setting period from 1 -10 sec. If the alternator does not build up

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voltage after the first and second start as may be prescribed further starting a ttempt will not be made and starting facility will be reset.

3. Once the engine has built up voltage the alternator contactor or circuit breaker shall close connecting load to the alternator. The load is now supplied by the alternator.
4. When the main supply is restored and is healthy as sensed by the line voltage monitor setting both for under voltage and unbalance after the quality is monitored by a suitable timer which can be set between 1minute and 10minutes, the load shall be transferred automatically to ma ins and alternator is shut down. Mains takes over the supply to load.
5. The diesel alternator set reverts to stand by for next operation as per (1),(2),(3) above.
6. Alternator and main circuit breakers are invariably electrically interlocked such that unless o ne is OFF and the other cannot be made ON.
7. In case circuit breakers are employed for contactor duty and they have spring closing mechanism suitable motor operated spring closing mechanism with limit switches etc. otherwise suitable for operational modes sh all be provided.

8.2 **MANUAL MODE (Applicable with AMF panel)**

1. In a manual mode it shall be feasible to startup the generator set only by the operator pressing the start push button/starting key or switch.
2. Alternator contactor/circuit breakers close and tr ip operating shall be also through operator only by pressing the appropriate button on the panel.
3. Engine shut down otherwise due to faults, shall be manual by pressing a STOP button.

8.3 **TEST MODE: (Applicable with AMF panel)**

1. Sequence 7.8.2 (1) and (2) s hall be completed.
2. Engine shall build up voltage, but the set shall not take load by closing up alternator contactor/circuit breaker. When the load is on the main, monitoring performance for voltage/frequency etc. shall be feasible without supply to load.
3. If during test mode the power supply has failed, the load shall automatically get transferred to alternator.
4. Bringing the mode selector to auto position shall shut down the set as per sequence 7.8.1.(4) provided main supply is ON. If the main supply is not available at the time the alternator shall take load as in (3) above.

9 **ENGINE SHUT DOWN & ALTERNATOR PROTECTION EQUIPENTS: (Applicable with AMF panel)**

9.1 The following shut down and protection system shall be integrated in the control panel:

1. Engine s hut down due to:
   - Low lubricating oil pressure.
   - High coolant (Water) temperature.
   - Engine over speed.
2. Alternator protection (Trip)
   - Over load trip in all three phases.
   - Earth leakage trip
   - Over load trip shall be adjustable between 80% and 120% while earth leak age trip shall be adjustable between 20% and 40%.

9.2 The above shut downs and trips shall have visual and audible alarms.

10 **MONITORING AND METERING FACILITIES (Applicable with AMF panel)**

a) Combined digital meter with Ammeter, kWh meter, power factor mete r and frequency meter for monitoring of mains and alternator supply (on load side)
b) Visual monitoring lamp indicator for:
   i. Load on set

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ii. Load on Mains
iii. Set on test
iv. Engine shut down due to over speed
v. Engine shut down due to low lubricating oil pressure.
vi. Engi ne shut down due to high coolant (Water) temperature.
vii. Over load trip of alternator.
viii. Earth leakage trip of alternator.
ix. Engine lock out and failure to start.

All the indications (except i to iii) shall have an audio alarm and when energized shall be blinkin g and trigger the audio alarm until annunciated and accepted by the operator. When operator accepts the alarm, the hooter will be silenced and the fault indication will become steady until reset by operating the reset button.

c) No. of starts meter in the pa nel
d) 3 Phase indicating lamp for mains supply, DG ON, Load on DG and load on mains.
e) RPM cum running hour meter.

11 **OPERATION DEVICES (Applicable with AMF panel)**

A set of operation devices described as under shall be incorporated in the front panel:

a) Maste r engine control switch:

This shall cut off in OFF POSITION DC CONTROL SUPPLY to the entire panel thus preventing startup of engine due to any cause under this status. However, battery charger, lamp test button, for testing the healthiness of indication l amps, DC voltmeter/ammeter etc. shall be operative. It shall be feasible to lock the switch in OFF position for maintenance and shut down purposes.

b) Operation selector/switch with OFF/auto/manual/test position.
c) Selector switches for all meters as specified .
d) A set of push buttons as specified.

12 **BATTERY CHARGER (Applicable with AMF panel):**

This shall be complete with boost/trickle selector, DC volt meter, DC ammeter and lamp indications for boost charge and float charge. The battery charger is to connected to the load side.

13 **TEST ON GENERATING SET:**

Test shall cover the following:

a) Routine tests as per standards at manufacturers works which may be inspected by the Engineer - in - Charge or authorized representative, if required.
b) Insulation resis tance test.
c) Operation checks
d) Full load run test after installation at site for a period of at least 12 hours continuous run.

14 **EARTHING SYSTEM:**

Earth electrodes and earth leads as specified in the schedule together with necessary test links shall be pr ovided conforming to CPWD specifications. Joints in the earth leads shall be with double bolts with washers and check nuts.

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Earth resistance shall be measured and results shall be furnished.

15 **ACOUSTIC ENCLOSURE:**

- The canopy should be sound proof, w eather proof and environment friendly, conforming to latest environment (protection) act 1986 (29 of 1986) of ministry of Environment and forest notification No: dated 17 th May 2002 and 12 th July, 2004and second amendment of 2002 and 2004 respectively. No set shall be accepted without the CPCB certificate of authorized agencies such as ARAI of Pune, NPL New Delhi, NSTL Visakhapatnam, FCRI Palghat, and NAL Bangalore.
- The canopy shall be in modular construction. The acoustic panels shall be fabricated in 1.6m m thick CRCA sheet. The finished sheet metal component shall undergo seven tank treatment process for degreasing, phosphatizing etc. for longer life and should by poly polyester based coating inside and outside. The nuts, bolts and other hardware shall be zinc coated. The door shall be provided with high quality EPDN gaskets to avoid leakage of sound. The door handles and hinges shall be zinc plated and lockable type.
- The radiator fan of the water cooled engine shall be used for ventilation. A pusher fan, i n addition to the radiator fan, if required shall also be provided.
- Adequate ventilation shall be provided to meet the air requirement for combustion and also to expel heat to maintain temperature inside the enclosure within 5 °C above ambient at 10% over l oad with tripping arrangement.
- An arrangement for adequate illumination inside the enclosure shall be provided.
- Separate door with locking arrangement for easy access to DG Set during operation and maintenance should be provided.
- Radiator bellows to be pro vided in case of water cooled engines.
- Fuel tank and control panel shall be incorporated inside the canopy.
- Suitable lifting arrangement shall be incorporated.
- Insulation on enclosure will be provided and fixed of mineral rock wool slabs of minimum 50mm th ickness, covered with 0.6mm thick GI sheet having 3mm perforation fitted with strips of aluminium by hydraulic riveting to support the whole insulation rigidly. Specially designed sound attenuators shall be provided to control sound at air entry and exit p oints including louvers.

16. **GENERAL:**

- The set shall have minimum vibration and noise under all conditions of load. The set shall be properly dynamically balanced. Anti -vibration mounting shall be provided for supporting the set.
- Control wiring shall be done with 2.5 Sq.mm multi strand PVC insulated copper conductor cable.
- Earthing provision should be made for earthing all current carrying metal parts of the equipment. Earth lugs of suitable size shall be provided.
- All the exposed moving parts like coupl ing etc. shall be provided with suitable guards covering.
- A name plate showing rating, connection diagram should be provided on engine and alternator. All the important and major parts should bear their catalogue number make of the parts etc. All the contr ol wiring shall be provided with letter number ferules at both ends.
- Three sets of manual giving the details about design, specifications, and special features of the equipment, schematic and wiring diagram, instructions regarding installation and maintena nce etc. should be supplied. A laminated control wiring diagram should be pasted inside the control panel.
- Supplier shall also furnish copy of Conformity of Production (COP) for the DG set from an authorized agency.
- The whole installation system shall be g uaranteed against any inherent defect of faulty workmanship and for its perfect functioning for a period of not less than one year from the date of commissioning of the system.

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- Free services as per manufacturer's standard practice and norms will be pr ovided free of cost.
- All work shall be executed as per CPWD General Specification for Electrical Works Part I (internal) - 2005, Part II (External) - 1994 and Part VII (DG SETS) -2006 and IE Rules.

17. **STATUTORY CLEARENCES:**

Approval/clearance of the comple te installation shall be obtained by the contractor from CPCB/State Pollution Control Boards/Local bodies/Central Electricity Authority (CEA)/other incensing authorities, wherever required. However, application shall be made by Department and any statutory fee, as applicable, shall be paid by Department directly to the Government authorities concerned.

18. **INSPECTION, TESTING AND COMMISSIONING:**

- Copies of all documents of routine and type test certificate of the equipment, carried out at the manufacturers premises shall be furnished to the Engineer -in -Charge.
- After completion of the installation work in all respect, the contractor shall offer the DG sets for testing.
- DG set will be tested on load of unity power factor for the rated kW rating. During testi ng the DG set shall be operated for a period of 12hours on the rated kW at DG set's kW rating including 1 hour on 10% over load after continuous run for the 12 hours. During testing all controls/operations safeties will be checked and proper record will be maintained. Any defects, abnormalities noticed during testing shall be rectified. The testing will be declared successful only when no abnormality/failure is noticed during the testing. The installation will be accepted only after successful completion of the testing.
- The contractor shall arrange necessary fuel, human resource, and electrical load for the rated kW capacity of the generator for conducting the test as above.

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ACCEPTABLE MAKES

1	Engine	Cummins/Kirloskar/Greaves
2	A lternator	Stamford/Kirloskar Green/KEL/Crompton
3	Relays	Alsthom/Siemens/Allen Bardly/PLA
4	MCCB	Siemens/L&T/Legrand
5	Contactos	Siemens/L&T /GE Power cont rol
6	CT	As per manufacturer
7	MS pipe	Jindal/TATA/Zenith
8	Ammeter/ Voltmeter	AE/IMP/Universal/R eshabh/Kaycee/Meco/Enecon / Yokins /
9	Selector Switch	L&T / Kaycee / AE / IMP / Thakoor / Reco / Vaishno / Seizer / Rass control
10	Indicating Lamps	Vaishno / Siemens / L&T / AE / IMP / Rass Control /
11	Control cabl	Havell's/Finolex/Gloster/Univers al/Nicco/CCI
12	Digital/ana log metering	Conzerv/Havell's/L&T Rishab/Enercon/AE/IMP/Secure
13	Lead Acid Battery. (Sealed Ma intenan ce Free)	Exide / Standard / Furukawa / AMCO / Pacesetter / Prestolite / Amara Raja Standard.
14	AVM Pads	As per manufacturer
15	Power Cables	Fort Gloster / Finolex / Poly Cab / Havell's / Nicco
16	Valves (Only ISI mark)	Kirloskar / Fountain / Trishul / Leader
17	Contactors /Relays/Ti mer	GE/L&T/Siemens/ABB/BCH/Control & switch gear/Schneider

Note: Any other materials used in the work and not mentioned in the list, shall be of reputed make and ISI approved.

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CENTRAL WAREHOUSING COROPORATION

(A Govt. Of India Undertaking)

NAME OF WORK: S/I/T/C OF 75 KVA DIESEL GENERATOR ALONG WITH AMF PANEL AT REGIONAL OFFICE , HYDERABAD

SCHEDULE OF QUANTITIES

Sl.N0	Description of work	Qty	Unit	Rate	Amount
I	*Sub - head 'A' (Equipment)*				
1	Supply, installation, testing and commissioning of 75 kVA AMF type water cooled diesel driven generating set conforming to CPCB 2 norms comprising of radiator, 4 stroke multi cylinder engine of suitable BHP to deliver rated kVA at prevailing site conditions equipped with flywheel, residential type silencer, electro - mechanical fuel governor, fuel pump, built in fuel tank, el ectric starting equipment with required nos of suitable AH sealed maintenance free batteries etc., directly coupled to 75 kVA 0.8PF, alternator suitable for 3 phase, 4 wire 50Hz AC supply system with the entire system mounted on common base rame etc. on an existing foundation, piping with thermal insulation, control wiring from Alternator to control panel required inside the enclosure, etc. as perspecifications and consisting of the followings and AMF panel as per specification given below etc. as required.	1.00	Set	703685.00	703685.00
	Rupees Seven Lakh Three Thousand Six Hundred Eighty Five Only				
	1(a) Diesel Engine:				
	One number multi - cylinder, four stroke, liquid cooled, electric start, turbo charged type engine suitable for developing the required BHP at 1500 rpm, suitable for above output of alternator at 40 ° C, 50% RH and at 1000 Mtere MSL and conforming to BS 5514, BS 649, IS:10000, capable of taking 10% over loading for one hour after 12 hours of continuous operation complete with comm on base frame, Anti vibration mountings, radiator, starting equipment, batteries, residential type silencer and other accessories etc. as required and as specified in the detailed specification enclosed.One number multi - cylinder, four stroke, liquid cooled , electric start, turbo charged type engine suitable for developing the required BHP at 1500 rpm, suitable for above output of alternator at 40 ° C, 50% RH and at 1000 Mtere MSL and conforming to BS 5514, BS 649, IS:10000, capable of taking 10% over loading for one hour after 12 hours of continuous operation complete with common base frame, Anti vibration mountings, radiator, starting equipment, batteries, residential type silencer and other accessories etc. as required and as specified in the detailed speci fication enclosed.One number multi - cylinder, four stroke, liquid cooled, electric start, turbo charged type				

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	engine suitable for developing the required BHP at 1500 rpm, suitable for above output of alternator at 40 º C, 50% RH and at 1000 Mtere MSL and conforming to BS 5514, BS 649, IS:10000, capable of taking 10% over loading for one hour after 12 hours of continuous operation complete with common base frame, Anti vibration mountings, radiator, starting equipment, batteries, residential type si lencer and other accessories etc. as required and as specified in the detailed specification enclosed.One number multi -cylinder, four stroke, liquid cooled, electric start, turbo charged type engine suitable for developing the required BHP at 1500 rpm, sui table for above output of alternator at 40 º C, 50% RH and at 1000 Mtere MSL and conforming to BS 5514, BS 649, IS:10000, capable of taking 10% over loading for one hour after 12 hours of continuous operation complete with common base frame, Anti vibration mountings, radiator, starting equipment, batteries, residential type silencer and other accessories etc. as required and as specified in the detailed specification enclosed.One number multi -cylinder, four stroke, liquid cooled, electric start, turbo charge d type engine suitable for developing the required BHP at 1500 rpm, suitable for above output of alternator at 40 º C, 50% RH and at 1000 Mtere MSL and conforming to BS 5514, BS 649, IS:10000, capable of taking 10% over loading for one hour after 12 hours o f continuous operation complete with common base frame, Anti vibration mountings, radiator, starting equipment, batteries, residential type silencer and other accessories etc. as required and as specified in the detailed specification enclosed.				
	1(b) Alternator				

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	One number synchronous alternator rated at 75 kVA, 415volts at 1500 rpm, 3 phase, 50 Hz. AC supply with 0.8 lagging power factor at 40 °C, 50% RH and at 1000 Metre MSL. The alternator shall be having SPDP enclosure, brushless , continuous duty, self - excited and self -regulated through AVR conforming to IS: 4722/BS 2613 suitable for tropical conditions and with class F/H insulation.One number synchronous alternator rated at 75 kVA, 415volts at 1500 rpm, 3 phase, 50 Hz. AC supply with 0.8 lagging power factor at 40 °C, 50% RH and at 1000 Metre MSL. The alternator shall be having SPDP enclosure, brushless, continuous duty, self -excited and self - regulated through AVR conforming to IS: 4722/BS 2613 suitable for tropical conditions and with class F/H insulation.One number synchronous alternator rated at 75 kVA, 415volts at 1500 rpm, 3 phase, 50 Hz. AC supply with 0.8 lagging power factor at 40 °C, 50% RH and at 1000 Metre MSL. The alternator shall be having SPDP enclosure, brushless, cont inuous duty, self - excited and self -regulated through AVR conforming to IS: 4722/BS 2613 suitable for tropical conditions and with class F/H insulation.One number synchronous alternator rated at 75 kVA, 415volts at 1500 rpm, 3 phase, 50 Hz. AC supply with 0 .8 lagging power factor at 40 °C, 50% RH and at 1000 Metre MSL. The alternator shall be having SPDP enclosure, brushless, continuous duty, self -excited and self -regulated through AVR conforming to IS: 4722/BS 2613 suitable for tropical conditions and with c lass F/H insulation.One number synchronous alternator rated at 75 kVA, 415volts at 1500 rpm, 3 phase, 50 Hz. AC supply with 0.8 lagging power factor at 40 °C, 50% RH and at 1000 Metre MSL. The alternator shall be having SPDP enclosure, brushless, continuous duty, self -excited and self -regulated through AVR conforming to IS: 4722/BS 2613 suitable for tropical conditions and with class F/H insulation.				
	1(c) Base Frame & Foundation:				
	Both the engine and alternator shall be mounted on suitabl e base frame made of MS channeld with necessary reinforcement which shall be installed on suitable cement concrete foundation and vibration isolation arrangement as per recommendations of manufacturer.				

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	1(d) Fuel tank:				
	In built da ily service fuel tank as pe manufactures specification complete with all stndard accessories and fuel piping between fuel tank and diesel engine, complete with valves, levelindicator and accessories as required as per specification attached.				
	1(e) Exhaust system:				
	Dry exhaust mainfold with hospital exhaust silencer and catalytic convertor				
	1(f) Starting System:				
	12V/24V DC starting system comprising of starter motor, voltage regulator and arrangement for initial excit ation, complete with required nos of suitable batteries as required and as per specification.				
	1(g) Acoustic Enclosure:				
	Acoustic and weather proof enclosure with arrangement for fresh air intake for cooling of the engine and alternator , extraction, discharging hot air in to the atmosphere as per specification attached.				
	1(h) AMF Panel:				
	Compartmentalised floor mounting, in door type double door AMF control panel board totally enclosed dust and vermin proof, made out of 2mm thick sheet steel having concealed hinges, lockable doors, detacheable gland plates of suitable size at the bottom for cable entry, and busbar chamber with copper bus bar of 200A capaciy, powder coating the panel, supplying and fixing of the followi ng and all other required accessores and components for the above DG set as per detailed technical specification, including copper wires for control wiring,, connections and interconnection etc. complete as required.				
	(a) Suitable capacity four pole MCCB, Ics=35kA @ 415Volt or Ics=25kA @433Volts with rotary operating mechanism with phase barriers - 2 nos. (For mains and alternator)				
	(b) Suitable capacity AC -I FP power contactor with add on block - 2 sets (For mains and alternator) wit h interlocking arrangement.				
	(c) Micro processor based automatic mains failure function unit for emergency and stand by power supply system having under voltage, over voltage and single phasing protection and other standard features - 1 no.				
	(d) Micro processor based IDMT relay for three phase over current + earth fault - 1 set.				
	(e) Energy analyser unit to indicate current, voltage, frequency, power factor and kWh				

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	(f) Phase indication lamps for BESCOM and Gener ator - 1 Set				
	(g) Emergency trip switch, Auto/Manual/Off selector switch, trickle/boost charger switch and SMPS battery charger unit complete with transformer, rectifier, DC Voltmeter and ammeter, off and boost and current adjustment etc. - 1 Set				
	(h) Bakelite HRC fuses and control wiring for the entire system - 1 Set				
	(i) Indicating lamps for load on mains and load on set - 1 Set				
	(j) Fuse for instruments - 1 Set				
	(k) 25 x 5mm copper strip along the entire width and length of the board - 2 sets.				
2	(a) Supplying and fixing exhaust gas piping of suitable dia. Welded black MS 'B' class pipe conforming to IS:1239 cut to required length and installed with necessary bends, supports and clamps, anti vibrat ion mountings, insulation of exhaust system with mineral wool/Rock wool 50mm thick, wire mesh and aluminium cladding etc. as required as per detailed specification attached.	17.00	Mtre.	1884.00	32028.00
	Rupees One Thousand Eight Hundred Eighty Four O nly				
	(b) Insulation of silencer with mineral wool/rock wool 50mm thick, wire mesh and aluminium cladding etc. as required.	1.00	Job	3250.00	3250.00
	Rupees Three Thousand Two Hundred Fifty Only				
II	*Sub - head 'B' Cable and laying*				
3	Suppl y of aluminium conductor, XLPE insulated, inner sheathed flat steel strip armoured and PVC sheathed overall under ground power cable of 1.1 KV grade, conforming to IS 7098 (Part I), 1988 with up to date amendments if any, of following sizes as required.(M ake: Finolex, Polycab, Havells, Nicco, Gloster)				
	(a) 3½ x 70 Sq.mm	55.00	Mtre.	356.00	19580.00
	Rupees Three Hundred Fifty Six Only				
	(b) 2 x 6 Sq.mm	27.00	Mtre.	76.00	2052.00
	Rupees Seventy Six Only				
4	Control wiring with suit able size multi pair copper conductor control cable from the alternator to the AMF panel in the existing pipe laid in floor/ground as required.	10.00	Mtre.	200.00	2000.00
	Rupees Two Hundred Only				
5	Fabricating and installing following size of perf orated MS cable trays includng horizontal and vertical bends, reducers, tees, cross members and other accessories as required and duly suspended from the ceiling with MS suspenders and including painting with powder coating etc. as required. (a) 150mm widt h x 50mm depth x 1.6mm thickness	24.00	Mtre.	335.00	8040.00
	Rupees Three Hundred Thirty Five Only				

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6	Laying and fixing of one number PVC insulatred and PVC sheathed/XLPE aluminium conductor cable of 1.1kV grade of size not exceeding 25 sq.mm o n surface as required.	27.00	Mtre.	31.00	837.00
	Rupees Thirty One Only				
7	Laying and fixing of one number PVC insulatred and PVC sheathed/XLPE aluminium conductor cable of 1.1kV grade of size exceeding 25 sq.mm but not exceeding 120 sq.mm on surfac e as required.	55.00	Mtre.	59.00	3245.00
	Rupees Fifty Nine Only				
8	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable of 1.1kV gra de as required.				
	(a) 3½ x 70 Sq.mm	4.00	Set	168.00	672.00
	Rupees One Hundred Sixty Eight Only				
	(b) 2 x 6 Sq.mm	2.00	Set	69.00	138.00
	Rupees Sixty Nine Only				
III	*Sub - head 'C' - Wiring, Fittings & DB's*				
9	Providing and fixin g 200A, 4pole, MCCB with rotary handle and spreader terminals in a suitable enclosure made of special grade CRCA sheet steel and painted with epoxy polyster and polister resin based powder paints, with adequate knock outs for cable entry etc. and fixing t he same on the existing angle iron panel board, giving connections etc. complete all as required and as directed.	1.00	Each	20217.00	20217.00
	Rupees Twenty Thousand Two Hundred Seventeen Only				
10	Providing and fiing 3nos of 200A kit kat fuse assemb ly with extension strip and 1no. 200A neutral link on a suitable hylem sheet and mounting the same on the existing angle iron frame, including terminating the incoming and out going cables etc. complete as required.	1.00	Set	5350.00	5350.00
	Rupees Five Thousand Three Hundred Fifty Only				
11	Wiring for light point/fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, with modular switch, modular plate, suitable GI box and and earthing the point with 1.5 sq.mm FR PVC insulated copper conductor single core cable etc. as required - Group C	2.00	Point	426.00	852.00
	Rupees Four Hundred Twenty Six Only				
12	Supplying and fixing following way, single pole and neu tral, sheet steel, MCB distribution board, 240V, on surface/recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as srequired. (But without MCB/RCCB/Isolator) (a) 4 way double door.	1	Each	450.00	450.00
	Rupees Four Hundred Fifty Only				

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13	Supplying and fixing following rating, double pole 240 volts, isolator in the existing MCB DB complete with connectioins, testing and com missioning etc. as required - 40amps	1.00	Each	166.00	166.00
	Rupees One Hundred Sixty Six Only				
14	Supplying and fixing 5 amps to 32 amps rating, 240 volts, 'B' series, miniature circuit breaker suitable for lighting and other loads of following pol es in the existing MCB DB complete with connections, testing and commissioning etc. as required. (a) Single poleSupplying and fixing 5 amps to 32 amps rating, 240 volts, 'B' series, miniature circuit breaker suitable for lighting and other loads of followi ng poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. (a) Single pole	2.00	Each	86.00	172.00
	Rupees Eighty Six Only				
15	Supply of surface/pendent mounting industrial box type LED lamp light fitting wi th CRCA body pre -coated in white and pre -wired for LED tube, suitable for single 20W LED tube and 1no 20w LED tube etc. as required. (Make: Philips TMC 501 P 1xT -LED 20W or Crompton IGP131LT8 -20W or Wipro WCO121208 or equivalent Bajaj)	2.00	Each	1135.00	22 70.00
	Rupees One Thousand One Hundred Thirty Five Only				
16	Installation, testing and commissioning of prewired, flourescent fittings/compact flourescent fittings of all types, complete with all accessories and tube etc. directly on ceiling/wall, inc luding connections with 1.5 sq.mm. FR PVC insulated, copper conductor, single core cable and earthing etc. as required.	2.00	Each	43.00	86.00
	Rupees Forty Three Only				
IV	*Sub -head 'D' (Earthing)*				
17	Earthing with GI earth plate 600mm x 600mm x 6mm thick including accessories, and providing masonary enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) as required.	2.00	Set	1585.00	3170.00
	Rupees One Thousand Five Hundred Eighty Five Only				
18	Earthing with copper earth plate 600mm x 600mm x 3mm thick including accessories , and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (But without charcoal or coke and salt) as required.	2.0 0	Set	3263.00	6526.00
	Rupees Three Thousand Two Hundred Sixty Three Only				
19	Extra for using salt and charcoal for GI plate earth electrode as required.	4.00	Set	603.00	2412.00
	Rupees Six Hundred Three Only				
20	Providing and fixing 25mm x 5 mm copper strip in 40mm dia GI pipe from earth electrode as required.	18.00	Mtre.	494.00	8892.00
	Rupees Four Hundred Ninety Four Only				

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21	Providing and fixing 25mm x 5mm GI strip in 40mm dia. GI pipe from earth eectrode as required.	19.00	Mtre .	218.00	4142.00
	Rupees Two Hundred Eighteen Only				
22	Providing and fixing 25mm x 5mm copper strip on surface or in recess for connection etc. as required.	10.00	Mtre.	358.00	3580.00
	Rupees Three Hundred Fifty Eight Only				
23	Providing and fi xing 25mm x 5mm GI strip on surface or recess for connection etc. as required.	30.00	Mtre.	66.00	1980.00
	Rupees Sixty Six Only				
24	Providing artificial load and carrying out test at site at rated kW for the 75 kVA DG set for a period of 12 hours con tinuous run including 10% overload for one hour after 12 hours of continuous operation. (The tenderer should provide POL required for running the gen set for the specified period, connections, reconnections for conducting the test including labour, transpo rtation etc. as required.)	1.00	Job	L.S.	10000.00
25	Charges for removing the weld mesh grill to facilitate unloading of the generator to the platform and refixing the same after completion of the work complete including welding, painting the weld ed portion etc. complete including sundry material required if any, hire charges of welding machine etc. all as required to the satisfaction of the E -in - C	1.00	Job	5500.00	5500.00
	Rupees Five Thousand Five Hundred Only				
	Total				**851292.00**

EXECUTIVE ENGINEER

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CENTRAL WAREHOUSING CORPORATION

(A Govt. of India Undertaking)

NIT No : 23 /2017 - 18				
Name of Work & Location	S/I/T/C OF 75 KVA DIESEL GENERATOR ALONG WITH AMF PANEL AT REGIONAL OFFICE, HYDERABAD		(TELANGANA)	
Estima ted Cost put to tender FROM ITEM NO.1 TO 25 (Rs.)			**851292.00**	
Name of the Firm/ CONTRACTOR WITH ADDRESS				
Sr.No.	Name of component	Estimated cost Rs.	**percentage above or below the estimated cost**	**% in Figures / Words** Total Cost
1	**Electrical works**	**851292.00**	**ABOVE / BELOW** (strike out whichever is not applicable)	---------- % (_____ _____ _____)

SIGNATURE OF THE CONTRACTOR **EXEC UTIVE ENGINEER**

NOTE : The tenderers should quote their percentage **ABOVE/ BELOW** as the case may be.

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