

TENDER ID	AMRVJAR5008
DATE	18.10.2025



REGIONAL BUSINESS OFFICE -5

ELURU

INVITING TENDERS

Through

E-Tendering

FOR

CIVIL WORKS FOR STRUCTURAL REPAIR AND RENOVATION OF ELURU MAIN BRANCH BUILDING, ANDHRA PRADESH

Contractors who are on the panel of SBI, Amaravati Circle (LHO) in the appropriate Civil works category are only eligible. (Contractors should submit proof of the same. Contractors are requested to watch website for any corrigendum)

Note: Firm should possess valid digital signature for this e-tender.

Last date for submission of e-Tender: 3.00 P.M. (IST) on 31.10.2025

Opening of e Tenders: 4.00 P.M. (IST) on 31.10.2025

STATE BANK OF INDIA
REGIONAL MANAGER,
REGIONAL BUSSINESS OFFICE-5,
NR PETA, SBI MAIN BRANCH BUILDING
ELURU – 534006 (AP)

CONSULTANT -



M/s KSHETRA

528, Alekhya radha sadan apts
6 no. junction, Amberpet, Hyd-500013.
Ph: (O)-040 27402118, Fax-040 27402118
Email: kshetra_architects@yahoo.co.in

Hyderabad | Vijayawada | New Delhi

Mob No: 83171560855, 9791281591

Signature of contractor

NOTICE INVITING TENDER (NIT)

Online tenders are invited from eligible contractors who are on the banks approved panel of SBI, Amaravati Circle in the appropriate category (contractors to furnish proof of empanelment and its validity)

1	Name of the work	CIVIL WORKS FOR STRUCTURAL REPAIR AND RENOVATION OF ELURU MAIN BRANCH BUILDING, ANDHRA PRADESH
3	Date and Time where tender forms are available	FROM 18.10.2025 to 31.10.2025 at https://etender.sbi/
4	Time and last date of submission of online eTender	Up to 3.00PM on 31.10.2025
5	Place, Time& Address for submission of e tender/contact person /telephone no/email address.	Up to 3.00 p.m. on 31.10.2025 A) Tender documents at https://etender.sbi/ B) EMD at the Address: State Bank of India Regional Business Office -5 NR PETA, SBI MAIN BRANCH BUILDING ELURU -534002 e- mail id : cmcoop5.aovij@sbi.co.in Contact Person: Chief Manager(Ops) Mob No:9849713802
6	Date, Time and Place of opening of eTender	On 31.10.2025 at 4:00PM State Bank of India Regional Business Office -5 NR PETA, SBI MAIN BRANCH BUILDING ELURU -534002 e- mail id : cmcoop5.aovij@sbi.co.in
7	Quantum of Earnest Money Deposit (EMD) drawn in favor of _____ Payable at _____	₹84, 000/- (DD-Drawn in favor of Regional Manager, RBO-5, ELURU payable at ELURU) (Firms claiming EMD exemption should upload valid proof failing which tender will be rejected)
8	Quantum of Security Deposit _____ (percentage) drawn in favor of _____ Payable at _____. Amount of bank guarantee.	1. Initial Security Deposit (ISD) – 2% of the Tender value in the form of DD-Drawn in favor of Regional Manager, RBO-5, ELURU payable at Eluru (EMD submitted above will be returned) 2. Retention Money- Deductable in running bills@ 10% of the value of work and Total deductible is 5% of value of work including ISD.
9	Estimated cost	₹83.91 Lakhs
10	Terms of payment of Bills, if any (specify the minimum value of work for payment of running account bills)	Running Bill will be paid after Completion of 70% of work. (No advance/ will be paid to vendors for whom GST is blocked by Corporate Center, State Bank of India)
	(Penalty clause) Liquidated Damages	@ 0.5% of the value of work per week of delay subject to a maximum penalty of 5% of the value of work would be strictly imposed.
12	Stipulated time for completion of the work/supply.	45 Days
13	Validity period of the tender.	90 days from last date for receipt of tender
14	Eligible Taxes	A) Income Tax will be deducted at source as per Govt. Guidelines. B) Reimbursement of GST will be made only on submission of proper GST invoice as per applicable

		GST provisions/Rules. The contractor should comply with the following; - Contractor should have GST Registration Number. - Invoice should specifically/separately disclose the amount of GST levied at applicable rate as per GST provisions/Rules. - In case of Correction in the bills after scrutiny, contractor should submit fresh bills for payment. - Contractor should timely file his GST return in accordance with GST provisions to enable the bank to claim the credit of GST paid to the contractor. - The GST Number of State Bank Of India are For Andhra Pradesh state-37AAACS8577K1ZO For Telangana State -36AAACS8577K1ZQ For Puducherry U.T - 34AAACS8577K1ZU
15	Electronic Payment	Electronic payment shall only be permitted. All the contractor must furnish details such as 1) Name of the their bank 2) Name of their branch 3) Account number 4) Name of the account holder as in the bank account 5) IFSC No of the branch 6) PAN number.
16	Agency for arranging e-tender/online bidding	E-Procurement Technologies Limited, Ahmedabad. Fahad Khan – 6352631766 Shaik Nasiruddin – 6352632093 Jay Vyas – 9265562819 Mubassera – 7859800621 Hiral Purohit - 6352631968 You are requested to contact the agency for further guidance on E tendering
17	For further clarifications, if any	All technical matters contact Sri. Janardhana Rao E, Chief Manager (Civil), Administrative Office, State Bank of India, Visakhapatnam, E-mail: janardhana.eluru@sbi.co.in
18	Any additional Information	If the final L1 bid is unreasonably low i.e. L1 bid is less by 10 % or more of the Estimated Cost, the contractor shall submit Additional Security Deposit (ASD) in the form of PBG/DD for an amount equal to difference i.e, 90% of estimated cost and amount quoted by the L1 contractor. PBG/DD to be submitted within 7 days from issue of letter from Bank. This ASD deposit is in addition ISD as mentioned above.

The D.D. / B.C. of E.M.D. shall be submitted/sent at the above-mentioned address on or before the opening date/time, otherwise the tender shall be summarily rejected. Firms claiming EMD exemption should upload valid proof failing which tender will be rejected.

The contractor has to provide their E-mail id, contact nos. and postal address in the bid documents. Henceforth, all official communication from Bank shall be through E-mail and SMS also.

State Bank of India reserves the right to cancel or postpone or modify the tenders at any stage without assigning any reason.

Regional Manager
RBO-5, ELURU.

Following documents to be scanned and uploaded:-

1. Scanned copy of EMD must be uploaded. Firms claiming EMD exemption should upload valid proof failing which tender will be rejected.
2. Letter of Empanelment.
3. Declaration signed by authorized person with stamp. (Annexure-A).
4. No exemption of EMD is there for firms who had paid one time EMD to State Bank of India, Amaravati Circle.

Firm should be visit the website (<https://etender.sbi>) till last date of submission for any Changes. Corrigendum if any will be published only in <https://etender.sbi>

INSTRUCTIONS TO TENDERERS

Online, e tenders are invited Civil Works for Structural Repair and Renovation of Eluru Main Branch Building Andhra Pradesh from the Civil Contractors of eligible Category, Empanelled in SBI, Amaravati Circle (Proof of empanelment in appropriate category and its validity should be submitted. (Contractors are requested to watch website for any corrigendum)

1. Submission of BIDs/Tender Documents: Tenders should be submitted online in the website <https://etender.sbi/>. In addition, scanned copy of the declaration given in the last page signed with seal and scanned proof of empanelment and its validity should be submitted online with our service provider on the website at: <https://etender.sbi/> The tender document is not required to be sent to us in hard copy. The Tender documents with acceptance of all terms and conditions strictly as described in this tender document will be submitted online through M/s e-Procurement Technologies Ltd., Ahmadabad, the out sourcing agency approved by the Bank for e-tendering on the website <https://etender.sbi/>
2. Contractors should submit/sent EMD physically on or before 3.00p.m on last date at the address mentioned in NIT . The tender will be rejected if the tenderer fails to submit the above documents such as soft copy of complete tender documents, scanned copies of proof of empanelment, declaration, EMD and application fee.
3. Contract documents consist of detailed plans, technical specification, schedule of quantities of the various classes of work to be done, and the set of 'conditions of contract' to be compiled with by the person whose tender may be accepted. The documents are available in the website <https://etender.sbi/>
4. The successful tenderer will have to pay an amount of Initial Security Deposit, which shall be 2% of the accepted value of the tender including the EMD, by means of D.D. The Initial security deposit is to be paid by the Contractor to Bank within 7 days of intimation to him of the acceptance of the tender. No interest is allowed on the above said security deposit(EMD, ISD)
5. Retention Money: From each running bill, an amount at the rate of 10% of the gross value of the running bill shall be recovered as retention money, till the total retention amount including ISD amounts already with the Bank become 5% of the value of the contract amount. This amount is called as Total Security Deposit, which consists of two components

a) ISD – Initial Security Deposits.

b) RM – Retention Money.

The total security deposit will be kept with the Bank. Out of Total Security Deposit 50% of the total security deposit amount shall be refunded without interest to the contractor on issuance of virtual completion certificate by the Architect/Bank/SBIIMS and the Contractor's removal of his materials, equipment, labour force, temporary sheds, stores, site office etc. and on receipt of physical possession of the site by the Bank. The remaining 50% of the total security deposit may be refunded 15 days after the end of defects liability period (6 months), provided he has satisfactorily carried out all the works and attended to rectification of all defects in accordance with the conditions of the contract. In case of failure on the part to do so, the cost of rectifying the defects through any other agency shall be deducted from the amount of security deposit due to the contractor.

Completion of work i) The work shall be considered as complete only when the certificate of virtual completion is issued by the Bank, ii) The 'defects liability period' as prescribed in the contract shall commence only from date of such virtual completion.iii) Any defect that may appear within the defects liability period shall be rectified by the contractor within reasonable time on receipt of necessary instructions from Bank to that effect.

The acceptance of a tender will rest with the Competent Authority, who does not bind himself to accept the lowest tender and reserves to himself the authority to reject any or all of the tenders received, without assigning any reasons. All tenders in which any of the prescribed conditions are not fulfilled, or are incomplete

in any respect are liable to be rejected.

6. All compensation or other sums of money payable by the Contractor to Clients under the terms of this contract may be deducted from the security deposit, or from any sum that may be or may become due to the Contractor on any account whatsoever and in the event of the Security Deposit being reduced by reasons of any such deductions, the Contractor shall within 7 days of being asked to do make good in by DD any sum which have been deducted from his security deposit.
7. Tender containing any condition leading to unknown / indefinite liability, are liable to be summarily rejected.
8. Canvassing in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
9. The tenderer should quote their (own) rates for undertaking the work.
10. GST as applicable will be reimbursed by bank as specified in NIT.
11. All taxes other than GST, other statutory obligation in respect of this contract, as applicable, shall be payable by contractor including transportation and TA / DA of the workers at site and the Bank will not entertain any claim whatsoever in this respect
12. I.T. will be recovered @ 2 % plus surcharge or as applicable as per Government Rules
13. Time is the essence of the contract. The work should be completed within the time mentioned in NIT from the date of the work order issued to the contractor to commence the work. The successful Contractor will have to give CPM/PERT chart of various activities of works to be done so that the work gets completed within the stipulated time. The chart shall be submitted within 7 days from the date of acceptance of the tender.
14. Tenders for works shall remain open for acceptance for a period of 90 days from the last date of tenders. If the tenderer withdraws his tender before the expiry of the said period or makes any modifications in terms and condition of the tender which are not acceptable to the Bank, then the Bank without prejudice to any other right or remedy is at liberty to forfeit the earnest money.
15. The successful tenderer, after the work is awarded, he will have to enter into an agreement with the competent authority of the bank.
16. The tenderer, must co-ordinate with the other agencies such as (I) Electrical (II) Air – Conditioning etc.
17. The tenderer should visit the site to ascertain the working conditions and local authority regulations / restrictions if any and other information required for the proper execution of the work. The work should be carried out at any floor.
18. The work is to be carried out on different floors level depending upon the nature of work. Please note that materials and machines are required to be carried on head load and the same must be accounted in the costing. Please note that no separate cost shall be allowed for carting and shifting of materials.

19. The quantities of various items given in the schedule of quantities are approximate. The quantities of work may vary at time of allotment / execution of work. Bank reserves the right to omit / delete any item(s) of work from the schedule at the time of allotment / before. Contractor will be paid for the actual work done at the site duly verified by the concerned official of the Bank
20. The unit price shall be deemed to be fixed price. In case of extra items, a record of labour charges paid shall be maintained and shall be presented regularly to the Employer's for checking. The settlement will be made based on figures arrived at jointly and taking unit price given in the contract assigned to the successful Tenderer. In case of extra items where similar or comparable items are quoted in the tender, extra rates shall be based on tender rates.
21. If the rate quoted by the contractor for any item / items are not workable or abnormally lower than the market rate, the Bank may demand Bank guarantee from the contractor for satisfactory completion of these work. The bank guarantee amount will be not less than 50% of the estimated amount of the items for which the rates are not workable or abnormally low. This bank guarantee will be released after completion of these works (unworkable and abnormally low rated items) to the satisfaction of the Bank.
22. The contractor shall submit the bar chart/ CPM/ PERT as well as shall submit the insurance cover for the work in the form of CAR policy and Third Party Insurance within seven (7) days from the acceptance of work order.
23. The work has to be started within 7 (Seven) Days from the date of receipt of work order/ mark out at site; whichever is later. In case of work not being started within this stipulated period, the Bank reserves the right to cancel the work order duly forfeiting the Earnest money deposit
24. No employee of the Bank is allowed to work as a contractor for a period of 2 years of his/her retirement from Bank/SBIIMS Services without previous permission of the Bank. This contract is liable to be cancelled, if either the contractor or any of his employees is any time to be such a person who had not obtained the permission of Bank as aforesaid before submission of the tender or engagement in the contractor's service.
25. Contractor should get approval of the samples of materials in advance with Bank Engineer before use of the same in the work'
26. Bank/SBIIMS has the right to offer the contractor to modify the old material wherever/ whenever necessary instead of new supplies
27. The quoted rate should be inclusive of materials, labour, wages, fixtures, transportation, installation, all taxes(excluding GST), wastages, Octroi, machinery, temporary works such as scaffolding, cleaning, overheads, profit, statutory expenses, incidental charges and all related expenses to complete the work
28. The tenders shall summarily rejected, if any one of the above said requirements has not been complied with.

29. The Bank will not be bound to accept the lowest tender and reserves the right to accept or reject any or all the tenders without assigning any reason whatsoever
30. The contractor should fulfill the labour regulation guidelines stipulated by the governments
31. No advance payment in any form will be granted for the works proposed
32. Period of taking up the final bill will be one month from/ after satisfactory virtual completion or the date of submission of the final bill whichever is later.

**REGIONAL MANAGER
RBO-5, ELURU**

READ, UNDERSTOOD AND ACCEPTED

SIGNATURE OF THE CONTRACTOR WITH SEAL

DATE

FORM OF SUBMISSION OF TENDER
(To be filled by the tenderer)

Regional Manager
State Bank of India
Regional Business Office -5
NR PETA, SBI MAIN BRANCH BUILDING
ELURU -534002

Dear Sir/s,

RE: CIVIL WORKS FOR STRUCTURAL REPAIR AND RENOVATION OF ELURU MAIN BRANCH BUILDING, ANDHRA PRADESH

I/We hereby declare that I/ We have carefully gone through the conditions laid down in the Notice Inviting Tender, General notes, General Conditions of Contract, Special conditions, Schedule of approximate quantities and rates, Form of Agreement, General Specification, Approved manufacturers/ natural source of materials Technical Specifications of schedule of quantities, and clearly understood all the same and on the basis of the same I/ We have quoted our rates in the Schedule of Quantities (i.e. BOQ) attached with the tender documents.

I / We do here by undertaken to execute and complete the whole or part of the work (as desired by you) at the respective rates quoted.

I/ We are depositing a sum of **Rs. _____ .00 (Rupees _____ THOUSAND ONLY)** as earnest money deposit by way of demand draft drawn in favor of Regional Manager, RBO, Eluru along with this tender for due execution of the work at my/ our tendered rates.

In the event of this Tender being accepted I/ We agree to enter into the agreement and submit the declaration on requisite non-judicial stamp papers as and when required and execute the contract according to your form of Agreement etc., in default whereof, I/ We do hereby bind my-self / ourselves to forfeit the aforesaid deposit.

In the event of this Tender being accepted I/ We agree to obtain the labor license and the CAR and Third party insurance policy and deposit the balance E.M.D. amount and adhere/comply to all other instructions as given in TENDER DOCUMENT.

I / We further agree to complete the work included in the said schedule of quantities within the time mentioned in the NIT from the date of the work order issued to commence the same.

Date of commencement shall be either one week from the date of work order issued to the contractor or the date on which mark out of work at site has been given to contractor; whichever is later.

I / We agree not to employ sub-contractors other than those that may be approved by Employer.

I / We agree to pay all taxes(except GST), insurance charges as prevailing from time to time, on such items for whom same is to be levied by/ for the government, and the rates quoted by me / us are inclusive of all the same.

Yours Faithfully,

Signature of Witness:

Contractor's Signature _____

1.

Name: _____

2.

Address: _____

3.

GENERAL NOTES

1. PROCEDURE OF FILLING AND SUBMISSION OF TENDER

- i) Submission of BIDs/Tender Documents: Tenders should be submitted online in the website <https://etender.sbi/> In addition, scanned copy of the declaration given in last page to be signed with seal and scanned proof of empanelment and its validity should be submitted online with our service provider on the website at: <https://etender.sbi/> The tender document is not required to be sent to us in hard copy. The Tender documents with acceptance of all terms and conditions strictly as described in this tender document will be submitted online through M/s e-Procurement Technologies Ltd., Ahmadabad, the out sourcing agency approved by the Bank for e-tendering.
- ii) In the event of the tender being submitted by a firm, it must be signed by a member or members of the firm having legal authority to do so, and if called for, the legal documents in support thereof must be produced for inspection and the same in the case of the firm carried out by one member of a joint family. It must disclose that the firm is duly registered under the India Partnership Act. Any tender signed by a member not holding a power of attorney shall be treated as informal.

Tenderer shall note that their tenders shall remain open for acceptance for a minimum period of three months from the last date of receipt of tenders. The tenders must be unconditional. Conditional tenders will be summarily rejected.

2. RATES :

RATES MENTIONED ARE INCLUSIVE OF .

- a) Materials, labour, wastages, overhead, transport, seigniorage charges etc all for completing work
- b) Necessary cost of taking samples of materials supplied by them for work including plywood, wood/tiles etc., testing of the same at Govt.'s / approved laboratory including transportation, cost of the samples, as and when required.
- c) Submission of test reports of other materials as may be specified by Bank's Engineer.

3. STORAGE OF MATERIALS:

The contractor shall not store their materials and debris within the premises other than the work site handed over to him.

5. LABOUR HUTMENT:

Shelter or stay and other amenities for the labors have to be arranged by the contractor at his own expense and responsibility.

6. IDLE LABOUR:

In case the work is held up for any site conditions not attributable to the contractors or for any decisions instructions / want of details from Employer or for any of the conditions, the contractor shall be allowed reasonable extension of time by the employer but any claim for idle labour shall not be entertained by the employer. Contractor's quoted rates should include for all such contingencies.

7. The contractor shall engage one competent person at site who shall take the instructions from the Employer. The work should not suffer due to lack of supervision, manpower and materials.

8. The Contractor is required to co-ordinate his works along with other agencies working at site. He has to reimburse any of the damage made by him or any of his representatives for any of the other agency or owner at

site.

9. Making of any cut-out / opening for electrical wiring / fitting in any of false ceiling, partition, Paneling, masonry work etc., and providing panels of the same finish in partitions, paneling shall not be paid extra.

10. The contractor is required to fabricate a sample where required, or any item so installed for approval. Any changes made by the Architect/Employer, in the sample to the specifications as mentioned in the tender, shall not be deducted or paid extra. The bulk production of the furniture can only be taken up after the final approval of the sample of the item.

11. The partitions shall be so fixed that all joinery work is in plumb and true in line. The partition frame shall be firmly fixed to the floor and ceiling by using suitable wall plugs and screws.

12. The contractor shall check all dimensions before fabricating and fixing the partitions or any other items in position at site.

13. All measurements given in the schedule hereunder are for the purpose of tender only. Payment will be made on actual measurement of the work done.

14. All measurements shall be as per relevant I.S. standards.

GENERAL CONDITIONS OF CONTRACT

Except where provided for in the description of the individual items in the schedule of quantities and in the specifications and conditions laid down hereinafter and in the drawings, the work shall be carried out as per standard specifications and under the direction of Employer.

1. INTERPRETATION

In constructing these conditions, the specifications, the schedule of quantities, tender and agreement, the following words shall have the meaning herein assigned to them except where the subject or context otherwise requires.

- i. **Employer:** The term employer means **State Bank of India having office at Gun foundry, Hyderabad** and any of its employees representative authorized on their behalf.
- ii. **Architects / Consultants:** The term Architects shall mean the Architects appointed by the employer for the purpose of preparing detailed drawing, supervision etc. It is the Bank to decide whether to appoint Architect or not and to change the Architect at any stage of work.
- iii. **Contractor:** The term contractor shall mean _____ (Name and address of the contractor) and his / their heirs, legal I, assigns & successors.
- iv. **Site:** The site shall mean the site where the works are to be executed including any building and erection thereon, allotted by the employer for the contractors use.
- v. **Site Engineer:** Any Engineer appointed from time to time by the Employer and certified in writing to the Architects and the Contractor, to be positioned at site to supervise the work.
- vi. **Drawings:** The work is to be carried out in accordance with drawings, specifications, the schedule of quantities and any further drawings which may be supplied or any other instruction, which may be given by the Employer or Architects during the execution of the work.

All drawings relating to work given to the contractor together with a copy of schedule of quantities are to be kept at site and the Employer / Architects shall be given access to such drawings or schedule of quantities wherever necessary.

In case any detailed Drawings are necessary contractor shall prepare such detailed drawings and / or dimensional sketches therefore and have it confirmed by the Employer as case may be prior to taking up such work.

The contractor shall ask in writing for all clarifications on matters occurring anywhere in drawings, specifications and schedule of quantities or to additional instructions at least 10 days ahead from the time when it is required for implementation so that the Employer may be able to give decision thereon.
- vii. **“The Works”** shall mean the work or works to be executed or done under this contract.
- viii. **“Act of Insolvency”** shall mean any act as such as defined by the Presidency Towns Insolvency Act or in Provincial Insolvency act or any amending status.

- ix. **"The Schedule of Quantities"** shall mean the schedule of quantities as specified and forming part of this contract.
- x. **"Priced Schedule of Quantities"** shall mean the schedule of quantities duly priced with the accepted quoted rates of the contractor.
- xi. **"Contract"** shall mean the Articles of Agreement, the general conditions special conditions, the appendix, the schedule of quantities, specifications and drawings attached here to and duly signed.
- xii. **'Contract Price'** shall mean the sum named in the Tender subject to such additions thereto or deductions there from as may be made under the provisions hereafter contained.
- xiii. **'Notice in Writing'** or written notice shall mean a notice in writing, type or printed characters sent (unless delivered personally or otherwise provided to have been received) by registered post to the last known private or business address or registered office of the addressee and shall be deemed to have been received when in the ordinary course of post it would have been delivered.
- xiv. **'Virtual Completion'** shall mean the premise is in the opinion of the Employer fit for occupation.
- xv. Words importing persons include firms and corporations. Words importing the singular only, also include the plural and vice verse where the Context requires.

2. SCOPE OF WORK/ CONTRACT

The Brief Scope of work involves the following.

1. FLOORING
2. Various furniture work consists of counters, Work stations, partitions, storage etc.
3. Painting
4. GLASS WORK, PANELLING ETC

The Contractor shall carry out and complete the said work in every respect in accordance with this Contract and with the directions of and to the satisfaction of the Employer. The Architect with approval of Employer or Employer issue further drawings and/or written instructions, detailed directions and explanations which hereafter collectively referred to as 'Instructions' in regard to:

- a. The variation or modification of the design quality or quantity of works or the addition or omission or substitution of any work.
- b. Any discrepancy in the drawings or between the schedule of quantities and / or drawings and / or specification.
- c. The removal from the site of any defective material brought thereon by the contractor and the substitution of any other material thereof.
- d. The demolition removal and / or re-execution of any work executed by the contractor/s.
- e. The dismissal from the work of any persons employed there upon.
- f. The opening up for inspection of any work covered up.
- g. The rectification and making good of any defects under clauses hereinafter mentioned and those arising during the maintenance period (Defect Liability Period).

The contractor shall forthwith comply with and duly execute any work comprised in such Employer's or his agent / Architect's instructions, provided always that verbal instructions, directions and explanations given to the contractor's or his representative upon the works by the Employer's or his agent / Architects shall, if involving a variation, be confirmed in writing to the contractor/s within seven days. No works, for which rates are not

specifically mentioned in the priced schedule of quantities, shall be taken up without written permission of the Employer. The employer as provided in clause "variation" shall fix rates of items not mentioned in the priced schedule of quantities.

Regarding all factory made products for which ISI marked products are available, only products bearing ISI marking shall be used in the work.

3.TENDERER SHALL VISIT THE SITE

Intending tenderer shall visit the site and make himself thoroughly acquainted with the local site condition, nature and requirements of the works, facilities of transport conditions, effective labour and materials, access and storage for materials and removal of rubbish. The tenderer shall provide in their tender for cost of carriage, freight and other charges as also for any special difficulties and including police restriction for transport etc., for proper execution of work as indicated in the drawings. The successful tenderer will not be entitled to any claim of compensation for difficulties faced or losses incurred on account of any site condition.

4. TENDERS

The Employer reserves the right to reject the lowest or any tender and also to discharge any or all of the tenders of each section or to split up and distribute any item of work to any specialist firm or firms, without assigning reasons.

The tenderers should note that the tender is strictly on the item rate basis and their attention is drawn to the fact that the rates for each and every item should be correct, workable and self-supporting. If called upon by the Employer/Architects detailed analysis of any or all the rates shall be submitted. The Employer/Architects shall not be bound to recognize the contractor's analysis.

The works will be paid for as "measured work" on the basis of actual work done and not as "lump sum" contract, unless otherwise specified.

All items of work described in the schedule of quantities are to be deemed and paid as complete works in all respects and details including preparatory and finishing works involved, directly related to and reasonably detectable from the drawings, specifications and schedule of quantities and no further extra charges will be allowed in this connection. In the case of lump-sum charges in the tender in respect of any items of work will be made for the actual work done on the basis of lump sum charges as will be assessed to be payable by the Employer / Architects.

The employer has power to add, omit from any work as shown in drawings or described in specifications or include in schedule of quantities and intimate the same in writing but no addition, omission or variation shall be made by the contractor without authorization from the Employer. No variation shall vitiate the contract.

The tenderer shall note that his tender shall remain open for consideration for a period of three months from the date of opening of the tender.

5. AGREEMENT

The successful contractor will be required to sign agreement in accordance with the draft agreement enclosed and the schedule conditions. The contractor shall pay for all stamps and legal expenses, incidental thereto. However the written acceptance by the employer of a tender will constitute a binding contract between the employer and the person so tendering such formal agreement is subsequently executed.

6. AUTHORITIES, NOTICES, PATENT RIGHTS AND ROYALTIES:

The contractor shall conform to the provisions of any Acts of the Legislature relating to the work, and to the Regulations and Bye-Laws of any authorities, and / or any water, lighting and other companies, and / or authorities with whose systems the structures were proposed to have connection and shall before making any variations from the drawings or specifications that may be associated to so conform, give the Employer / Architects written notices specifying the variations proposed to be made and reasons for making them and apply for instruction

thereon. The Employer / Architects on receipt of such intimation shall give a decision within a reasonable time.

The contractor/s shall arrange to give all notices required for by the said Acts, Regulations or Bye-laws to be given to any authority, and to pay to such authority or to any public officer all fees that may be properly chargeable in respect of the work and lodge the receipts with the Employer

The Contractor shall identify the Employer against all claims in respect of patent rights, designs, trademarks or name or the protected rights in respect of any constructional plant, machine, work or material used for or in connection with the works or temporary works and from and against all claims, demands, proceedings, damages, costs, charges, and expenses whatsoever in respect thereof or in relation thereto. The Contractor shall defend all actions arising from such claims, unless he has informed the Architects, before any such infringement and received their permission to proceed and shall himself pay all royalties, license fees, damages, cost and charges of all and every sort that may be legally incurred in respect thereof.

8. NOTICES AND STATUTORY REGULATIONS:

The contractor shall give all notices and pay all fees and shall comply all Acts and Regulations for the successful completion of the contract works.

The whole of the work is to be complied with as per the requirements and bylaws of the relevant statutory authorities including contract labor (Regulation and Abolition) Act 1970.

9. QUANTITY OF WORK TO BE EXECUTED

The Schedule of Quantities unless otherwise stated shall be deemed to have been prepared in accordance with the Standard Procedure shall be considered to be approximate and no liability shall attach to the employer for any error may be discovered therein. The Employer reserves the right to execute only a part or the whole or any excess thereof without assigning any reason therefore.

The Contractor shall be deemed to have satisfied himself before tendering to the correctness and sufficiency of his tender for the works and of the prices stated in the Schedule of Quantities and / or the Schedule of Rates and Prices, which rates and prices shall cover all things necessary for the completion of the works.

10. OTHER PERSONS ENGAGED BY THE EMPLOYER

The Employer reserves the right to execute any part of the work included in this contract or any work, which is not included in this contract by the other Agency, or persons and contractor shall allow all reasonable facilities and use of his scaffoldings for the execution of such work. The main contractor shall extend all cooperation in his regard.

11. Tenderer should deposit EMD as mentioned in the NIT.

12. CONTRACTOR TO PROVIDE EVERYTHING NECESSARY

The Contractor shall provide everything necessary for the proper execution of the work according to the intent and meaning of the drawings, schedule of quantities and specifications taken together whether the same may or may not be particularly shown or described therein provide that the same can reasonably be inferred there from and if the contractor finds any discrepancies therein he shall immediately and in writing , refer the same to the Employer / Architects whose decision shall be final and binding.

13. TIME OF COMPLETION, EXTENSION OF TIME&PROGRESS CHART

The Contractor shall be allowed admittance to the site on the 'Date of Commencement' stated in the Appendix, and he shall thereupon and forthwith begin the works and shall regularly proceed with to complete the same. On or before the 'Day of Completion' stated in the Appendix subject nevertheless the provision for the extension of

time hereinafter contained.

If in the opinion of the Employer/Architect the works be delayed:

- a) By force major or
 - b) By reason of any exceptionally inclement weather or
 - c) By reason of proceedings taken or threatened by or dispute with adjoining or neighboring owners of public authorities arising, than through the Contractor's won default or
 - d) By the works or delays of the contractors tradesmen engaged or nominated by the Employer / Architect and not referred in the Schedule of Quantities and / or specifications or
 - e) By reason of civil, commotion, local combination of workmen or strike or lock-out effecting any of the buildings traders or
 - f) In consequence of the Contractor not having in due time, necessary instructions from the Employer for which he shall have specifically applied in writing ahead of time, giving reasonable time to prepare such instructions, the employer shall make a fair and reasonable extension of time for completion of the Contract works
- In case of such strike or lock-out, the Contractor shall as soon as possible give written notice thereof to the employer, but the Contractor shall nevertheless constantly use his endeavors to prevent delay and shall do all they may reasonably be required, to the satisfaction of the employer to proceed with the work.

The Contractor on starting the works shall furnish to the Employer / Architect a PERT / CPM Program for carrying out the work stage in the stipulated time for the approval of Architect / Employer and follow strictly the approved time schedule incorporating charges if any, to ensure the completion of the work in stipulated time. A graph or chart on individual work shall be maintained showing the proportionate progress of work week by week a weekly progress report stating the number of skilled and un skilled laborers employed on the work, working hours done, place, type, and quantity of work done during the period.

The Contractor must inform the employer within 10 days in advance of all drawings and detailed required by him from time to time. The Contractor shall adhere to the approved program and arrange for the materials and labour etc accordingly.

Despite repeated instructions, if the Contractor fails to show proportionate progress of the work, the Architect / Employer may take suitable action and deemed fit without prejudice to any terms and conditions of the contract

14. LIQUIDATED DAMAGES

Should the work be not completed to the satisfaction of the Employer /Architects within the stipulated period, the contractor shall be bound to pay to the Employer a sum calculated as given below by way of liquidated damages and not as penalty during which the work remains un-commenced or unfinished after the expiry of the completion date.

If the contractor fails to complete the work by the Scheduled date of completion or within any sanctioned extended time, he will have to pay liquidated damages at 0.5% of contract amount for each week beyond the date that the work remains incomplete subject to maximum of 5%of the contract value (without extra items).

15. MATERIALS, WORKMANSHIP, SAMPLES, TESTING OF MATERIALS.

All the works specified and provided for in the specifications or which may be required to be done in order to perform and complete any part thereof shall be executed in the best and most workmanlike manner with materials of the best and approved quality of the respective kinds in accordance with the particulars contained in and implied by the specifications and as represented by the drawings or according to such other additional particulars, and instructions as may from time to time be given by the Employer / Architects during the execution of the work and to his entire satisfaction.

All mandatory tests shall be carried out as per CPWD specifications. If required by the Employer / Architects, the contractor shall have to carry out tests on materials and workmanship in approved materials testing laboratories

or as prescribed by the Employer / Architects at his own cost to prove that the materials etc., under test conform to the relevant I.S Standards or as specified in the specifications. The necessary charges, transporting, testing etc., shall have to be borne by the contractor. No extra payment on this account should in any case be entertained.

All the materials (except where otherwise described) stores and equipment required for the full performance of the work under the contract must be provided through normal channels and must include charges for import duties, and other charges and must be the best of their kind available and the contractors must be entirely responsible for the proper and efficient carrying out of the work. The work must be done in the best workmanlike manner. **Samples of all materials to be used must be submitted to the Employer when so directed by the Engineer and written approval from Employer must be obtain prior to placement of order.**

Any damage (during the work) to any part of the work or to the premises for any reasons due to rain, storm or neglect of contractor shall be rectified by the contractor in an approved manner at no extra cost.

Should the work be suspended by reason of rain, strike, lock-outs or any other cause, the contractor shall take all precautions necessary for the protection of work and at his own expenses shall make good any damage arising from any of these causes.

The contractor shall cover up and protect from damage, from any cause, all new work and supply all temporary doors, protection to windows, and any other requisite protection for the execution of the work whether by himself or special tradesmen or sub-contractor and any damage caused must be made good by the contractor at his own expenses.

Contractor should take all precaution to safeguard the flooring and if any damages to the flooring should be rectified by the contractor in the same quality at his own cost.

16. REMOVAL OF IMPROPER WORK

The Employer shall during the progress of the work have power to order in writing from time to time the removal from the work within such reasonable time or times as may be specified in the order of any materials which in the opinion of the Employer / Architects are not in accordance with specification or instructions, the substitution or proper re-execution of any work executed with materials or workmanship not in accordance with the drawings and specifications or instructions. In case the contractor refuses to comply with the order the Employer shall have the power to employ and pay other agencies to carry out the work and all expenses consequent thereon or incidental thereto as certified by the Employer / Architects shall be borne by the contractor or may be deducted from any money due to or that may become due to the contractor. No certificate, shall relieve the contractor from his liability in respect of unsound work or bad materials.

17. SITE ENGINEER

The Employer may appoint a Site Engineer or clerk of works who shall be representative of the Employer. The duties of the Employer representative are to watch and supervise the works and to test any materials to be used of workmanship employed in connection with the works. He shall have no authority either to relieve the Contractor of any of his duties or obligations under the Contract, or except those expressly provided hereunder, to order any work involving delay or any extra payment by the Employer or any variation of or in the works.

The contractor shall afford the Employer's representative every facility and assistance for examining the works and materials and checking the measuring time and materials. Neither the Employer's representative nor any assistant to the Architect shall have power to revoke, alter enlarge or relax the requirements of this Contract, or to Sanction any day-work, additions, alterations, deviations or omissions unless such an authority may be specially conferred by a written order of the Employer.

The Employer's Representative shall have to give notice to the Contractor or his foremen about the non-approval of any work or materials and such works shall be suspended or the use of such material should be discontinued until the decision of the employer/Architect is obtained, the work will from time to time be examined by the

Architect or the Employer's representative but such examinations shall not in any way exonerate the Contractor from the obligation to remedy defects which may be found to exist at any stage of the work or after the same is completed. Subject to the limitations of this clause, the Contractor shall take instruction from the Architect / Employer.

28. CONTRACTOR'S EMPLOYEES

The Contractor shall employ technically qualified and competent supervisors for the work who shall be available (by turn) throughout the working hours to receive and comply with instructions of the Employer / Architects. The contractor shall engage at least one experienced Engineer as site-in-charge for execution of the work. The contractor shall employ in connection with the work persons having the appropriate skill or ability to perform their job efficiently.

The contractor shall not employ labour below the age of sixteen years and who is not an Indian National.

Any laborer supplied by the contractor to be engaged on the work on day work basis either wholly or partly under the direct order or control of the Employer or his representative shall be deemed to be a person employed by the contractor.

LOCAL LAWS, ACTS, REGULATIONS

The contractor should abide by the central labour regulation and also shall strictly adhere to all prevailing labour laws inclusive of contract labour (Regulation and abolition act of 1970) and other safety regulations. The agency shall comply with the provision of all labour legislation including the latest requirements of all the acts, laws, any other regulations that are applicable to the execution of the tests.

- a) Minimum wages act, 1948 (Amended)
- b) Payment of wages act, 1936 (Amended)
- c) Workmen's compensation act 1923 (Amended)
- d) Contract labour Regulation and Abolition act 1970 and Central rules 1971 (Amended)
- e) Chief Labour Commissioner(C) , Ministry of Labour&Employment vide Gazette notification No.F.No.1/13(3)/2017-LS-II dated 20th April 2017 on minimum wages
- f) Apprentice act 1961 (Amended)
- g) Industrial employment (Standing order) Act 1946 (Amended)
- h) Personal injuries (compensation insurance) Act 1963 and other modifications
- i) Employees' Provident Fund and Miscellaneous Provisions Act 1952 and amendment thereof
- j) Shop and Establishment Act
- k) Employer's Liability Act.
- l) Any other Act or enactment thereof and rules framed there under from time to time.

The contractor shall keep the Employer saved harmless and indemnified against claims if any of the workmen and all costs and expenses as may be incurred by the Employer in connection with any claim that may be made by any workmen.

The contractor shall comply at his own cost with the order for requirement of any Health Officer of the State or any local authority or of the Employer regarding the maintenance of proper environmental sanitation of the area where the contractor's laborers are housed or accommodated, for the prevention of small pox, cholera, plague, typhoid, malaria and other contagious diseases. The contractor shall provide, maintain and keep in good sanitary condition adequate sanitary accommodation and provide facilities for pure drinking water at all times for the use of men engaged on the works and shall remove and clear away the same on completion of the works. Adequate precautions shall be taken by the contractor to prevent nuisance of any kind on the works or the lands adjoining the same.

The contractor shall arrange to provide first aid treatment to the laborers engaged on the works. He shall within 24 hours of the occurrence of any accident at or about the site or in connection with execution of the works report such accident to the Employer and also to the competent Authority where such report is required by law.

19. DISMISSAL OF WORKMEN

The contractor shall on the request of the Employer immediately dismiss from works any person employed thereon by him, who in the opinion of the Employer be unsuitable or incompetent or who may misconduct him. Such discharges shall not be the basis of any claim for compensation or damages against the Employer or any of their officer or employee.

20. ASSIGNMENT

The whole of the works included in the contract shall be executed by the contractor and the contractor shall not directly or indirectly transfer, assign or underlet the contract or any part, share or interest therein nor, shall take a new partner, without written consent of the Employer and no subletting shall relieve the contractor from the full and entire responsibility of the contract or from active superintendence of the work during their progress.

21. INSURANCE & DAMAGE TO PERSONS AND PROPERTY ETC.

The contractors under the terms of the contract are required to keep the works duly insured under CAR Policy(Contractor All Risk Policy) as well as third Party Insurance for the value of 110% of the Project value or Tender value until the Completion of the project or handing over whichever is later. The insurance policies should be taken in the joint names by the contractors and the same should be renewed at appropriate time.

The contractor shall be responsible for all injury to the work or workmen to persons, animals or things and for all damages to the structural and / or decorative part of property which may arise from the operations or neglect of himself or of any sub-contractor or of any of his or a sub-contractor's employees, whether such injury or damage arise from carelessness, accident or any other cause whatsoever in any way connected with the carrying out of this contract. The clause shall be held to include inter-alia, any damage to buildings whether immediately adjacent or otherwise, and any damage to roads, streets, foot paths or ways as well as damages caused to the buildings and the works forming the subject of this contract by rain, wind or other inclemency of the weather. The contractor shall indemnify the Employer and hold harmless in respect of all and any expenses arising from any such injury or damages to the person or property as aforesaid and also in respect of any claim made in respect of injury of damage under any acts on compensation or damage consequent upon such claim.

The contractor shall reinstate all damages of every sort mentioned in this clause so as to deliver the whole of the contract works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damages to the property of third parties.

The contractor shall affect the insurance necessary and indemnify the Employer entirely from all responsibility in this respect. Must be effected jointly in the name of the Employer and contractor and the policy lodged with the Employer. The scope of insurance is to include damage or loss to the contract itself till this is made over in a complete state. Insurance is compulsory and must be affected from the very initial stage. The contractor shall also be responsible for anything, which may be excluded from damage to any property arising out of incidents, negligence or defective carrying out of this contract.

The Employer shall be at liberty and is hereby empowered to deduct the amount of any damages, compensations, costs, charges and expenses arising or accruing from or in respect of any such claim or damages from any sums due to or to become due to the contractor.

22. MEASUREMENTS

Before taking any measurement of any work the Site Engineer or employer's representative shall give reasonable notice to the contractor. If the contractor fails to attend at the measurements after such notice or fails to countersign or to record the difference within a week from the date of measurement in the manner required by Site Engineer or by the subordinate deputed by him as the case may be is final and binding on the contractor and contractor shall have no right to dispute the same.

The Employer / Architect shall issue a certificate after due scrutiny of the contractor's bill stating the amount due to the contractor from the Employer and the contractor shall be entitled to payment thereof, within the period of honoring certificates named in these documents.

23. PAYMENTS

All bills shall be prepared by the contractor in the form prescribed by the Employer's / Architects. Normally one interim bill shall be prepared each month subject to minimum value as stated in these documents. The bills in proper forms must be duly accompanied by detailed measurements in M-book in support of the qualities of work done and must show deductions for all previous payments, retention money, etc.

The Architect shall issue a certificate after due scrutiny of the contractor's bill stating the amount due to the contractor from the Employer and the contractor shall be entitled to payment thereof, within the period of honoring certificates named in these documents.

The Employer will deduct IT, other applicable taxes if any (but GST is reimbursable) and retention money as described in this document. The refund of retention money will be made as specified.

If the Employer has supplied any materials or goods to the contractor, the cost of any such materials or goods will be progressively deducted from the amount due to the contractor in accordance with the quantities consumed in the work.

All the interim payments shall be regarded as payments by way of advance against the final payment only and not as payments for work actually done and completed, and shall not preclude the requiring of bad, unsound, and imperfect or unskilled work to be removal and taken away and reconstructed, or re-erected or be considered as an admission of the due performance of the contract, or any part thereof in any respect or the accruing of any claim, nor shall, it conclude, determine or affect in any way the power of the Employer under these conditions or any of them as to the final settlement and adjustment of the accounts or otherwise or in any other way vary or affect the contract. The final bill shall be submitted by the contractor within one week of the date fixed for completion of the work or of the date of certificate of completion and payment shall be made within one month from the date of receipt of the bill.

Final Payment

The final bill shall be accompanied by a certificate of completion from the Architects. Payments of final bill shall be made after deduction of Retention Money as specified, which shall be refunded after the completion of the Defects Liability Period after receiving the Branch Manager/Engineer's certificate that the contractor has rectified all defects to the satisfaction of the Employer. The acceptance of the payment of the final bill by the contractor would indicate that he has no further claim in respect of the work executed.

24. VARIATION / DEVIATION

The tender rates shall be fixed and applicable for any increase or decrease in the tendered quantities. The Employer / Architect can increase or decrease any quantities to any extend or even delete particular item as per the site requirements and the contractor shall not be paid anything extra on this account. Nothing extra will be paid by the Bank on account of omission / deletion of items or decrease in the quantity of items. The Bank shall not entertain any claim whatsoever from the contractor on this account.

The price of all additional items/non-tendered items will be worked out on the basis of rates quoted for similar items in the contract wherever existing. If similar items are not available, the rates for such items will be derived as per standard method of rate analysis based on prevalent fair price of labour, material and other components as required with 15% towards contractor's profit and overheads.

25. SUBSTITUTION

Should be contractor desire to substitute any materials and workmanship, he/they must obtain the approval of the Employer/ Architects in writing for any such substitution well in advance. Materials designated in this specification indefinitely by such term as "Equal" or "Other approved" etc. specific approval of the Employer / Architect has to be obtained in writing.

26. CLEARING SITE ON COMPLETION

On completion of the works the contractor shall clear away and remove from the site all machinery, surplus materials, rubbish and temporary works of every kind and leave the whole of the site and the works clean and in a workmanlike condition to the satisfaction of the Employer/Architects.

27. DEFECTS AFTER COMPLETION

The contractor shall make good at his own cost and to the satisfaction of the Employer all defects, peeling off laminate, false ceiling cracks, or any other faults, which may appear within 12 months after completion of the work. In the default, the Employer may employ and pay other persons to amend and make good such damages, losses and expenses consequent thereon or incidental thereto shall be made good and borne by the contractor and such damages, loss and expenses shall be recoverable from him by the Employer or may be deducted by the employer, in lieu of such amending and making good by the contractor, deduct from any money due to the contractor a sum equivalent to the cost of amending such work and in the event of the amount retained being insufficient recover that balance from the contractor from the amount retained (retention money) together with any expenses the Employer may have incurred in connection therewith.

28. CONCEALED WORK

The contractor shall give due notice to the Employer/Architects whenever any work is to be covered up or finished up or otherwise becoming inaccessible later on, in order that the work may be inspected and correct dimensions taken before such covering, in default whereof the same shall, at the opinion of the Employer/ Architect be either opened up for measurement at the contractor's expenses or no payment may be made for such materials. Should any dispute or differences arise after the execution of any work as to measurements etc., or other matters which cannot be conveniently tested or checked, the notes of the Employer / Architects shall be accepted as correct and binding on the contractor.

29. IDLE LABOUR

Whatever the reasons may be, no claim for idle labor, additional establishment cost of hire and labor charges of tools and plants would be entertained under any circumstances.

30. SUSPENSION OF WORKS

If the contractor except on account of any legal restraint upon the Employer preventing the continuance of the work or in the opinion of the Employer shall neglect or fail to proceed with due diligence in the performance of his part of the contract or if he shall more than once make default, the Employer shall have the power to give notice in writing to the contractor requiring the work to be proceeded within a reasonable manner and with reasonable dispatch, such notice purport to be a notice under this clause.

After such notice shall have been given, the contractor shall not be at liberty to remove from the site of the works or from any ground contiguous thereto any plant or materials to subsist from the date of such notice being given until the notice shall have been complied with. If the contractor fails to start the work within seven days after such notice has been given to proceed with the works as therein prescribed, the employer may proceed as provided in clause 31 (Termination of Contract by Employer)

31. TERMINATION OF CONTRACT BY EMPLOYER

Signature of contractor

If the contractor being a company go into liquidation whether voluntary or compulsory or being a firm shall be dissolved or being an individual shall be adjudicated insolvent or shall make an assignment or a composition for the benefit of the greater part, in number or amount of his creditors or shall enter into a Deed or arrangement with his creditors, or if the Official Assignee in insolvency, or the Receiver of the contractor in insolvency, shall repudiate the contract, or if a receiver of the contractor's firm appointed by the court shall be unable within fourteen days after notice to him requiring him to do so, to show to the reasonable satisfaction of the employer that he is able to carry out and fulfill the contract, and if so required by the employer to give reasonable security therefore, or if the contractor shall suffer execution to be issued, or shall suffer any payment under this contract to be attached by or on behalf of and of the creditors of the contractor, or shall assign, charge or encumber this contract or any payments due or which may become due to contractor, there under, or shall neglect or fail to observe and perform all or any of the acts matters of things by this contract, to be observed and performed by the contractor within three clear days after the notice shall have been given to the contractor in manner hereinafter mentioned requiring the contractor to observe or perform the same or shall use improper materials of workmanship in carrying on the works, or shall in the opinion of the employer not exercise such due diligence and make such progress as would enable the work to be completed within due time agreed upon, and shall fail to proceed to the satisfaction of the employer after three clear days notice requiring the contractor so to do shall have been given to the contractor as hereinafter mentioned or shall abandon the contract, then and in any of the said cases, the Bank may notwithstanding previous waiver determine the contract by a notice in writing to the effect as hereinafter mentioned, but without thereby effecting the powers of the employer of the obligations and liabilities of the contractor the whole of which shall continue in force as fully as if the contract, had not been so determine and as if the works subsequently executed by or on behalf of the contractor (without thereby creating any trust in favor of the contractor) further the employer or his agent, or servants, may enter upon and take possession of the work and all plants tools scaffolding sheds machinery, steam, and other power, utensils and materials lying upon premises or the adjoining lands or roads and sell the same as his own property or may employ the same by means of his own servants and workmen in carrying on and completing the works or by employing any other contractors or other persons or person to complete the works, and the contractor shall not in any way interrupt or do any act, matter or thing to prevent or hinder such other contractors or other persons or person employed from completing and finishing or using the materials and plants for the works when the works shall be completed, or as soon thereafter as conveniently may be the employer shall give notice in writing to the contractor to remove his surplus materials and plants and should the contractor to remove his surplus materials after receipt by him the employer may sell the same by Public Auction and shall give credit to the contractor for the amount so realized. Any expenses or losses incurred by the contractor for the amount so realized. Any expenses or losses incurred by the employer in getting the amount payable to the contractor by way of selling his tools and plants or due on account of work carried out by the contractor prior to engaging other contractors or against the Security Deposit.

2. ARBITRATION

Except where otherwise provided in the contract all questions and disputes relating to the meaning of the specifications, design, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the work or the execution or failure to execute the same, whether arising during the progress of the work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter :

i) If the contractor considers that he is entitled to any extra payment or compensation in respect of the works over and above the amounts admitted as payable by the Architect or in case the contractor wants to dispute the validity of any deductions or recoveries made or proposed to be made from the contract or raise any dispute, the Contractor shall forthwith give notice in writing of his claim, or dispute to the Assistant General Manager (Premises & Estate)/Dy. General Manager (Premises) and endorse a copy of the same to the Architect, within 30 days from the date of disallowance thereof or the date of deduction or recovery. The said notice shall give full particulars of the claim, grounds on which it is based and detailed calculations of the amount claimed and the contractor shall not be entitled to raise any claim nor shall the Bank be in any way liable in respect of any claim by the contractor unless notice of such claim shall have been given by the contractor to the Assistant General

Manager (Premises& Estate)/Dy.General Manager (premises) in the manner and within the time as aforesaid. The contractor shall be deemed to have waived and extinguished all his rights in respect of any claim not notified to the Assistant General Manager (Premises& Estate)/Dy.General Manager (premises) in writing in the manner and within the time aforesaid.

ii)The Assistant General Manager (Premises& Estate)/Dy.General Manager (premises) shall give his decision in writing on the claims notified by the contractor. The contractor may within 30 days of the receipt of the decision of the Assistant General Manager (Premises& Estate)/Dy.General Manager (premises) submit his claims to the conciliating authority namely the Circle Development Officer/General Manager (Corporate Services) for conciliation along with all details and copies of correspondence exchanged between him and the Assistant General Manager (Premises& Estate)/Dy.General Manager (premises)

iii)If the conciliation proceedings are terminated without settlement of the disputes, the contractor shall, within a period of 30 days of termination thereof shall give a notice to the concerned Chief General Manager/Dy.Managing Director &Corporate Development Officer of the Bank for appointment of an arbitrator to adjudicate the notified claims failing which the claims of the contractor shall be deemed to have been considered absolutely barred and waived.

iv)Except where the decision has become final, binding and conclusive in terms of the contract, all disputes or differences arising out of the notified claims of the contractor as aforesaid and all claims of the Bank shall be referred for adjudication through arbitration by the Sole Arbitrator appointed by the Chief General Manager/Dy.Managing Director&Corporate Development Officer. It will also be no objection to any such appointment that the Arbitrator so appointed is a Bank Officer and that he had to deal with the matters to which the Contract relates in the course of his duties as Bank Officer. If the arbitrator so appointed is unable or unwilling to act or resigns his appointment or vacates his office due to any reason whatsoever another sole arbitrator shall be appointed in the manner aforesaid by the said Chief General Manager/Dy.Managing Director &Corporate Development Officer. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor.

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

It is also a term of this contract that no person other than a person appointed by such Chief General Manager aforesaid should act as arbitrator.

The conciliation and arbitration shall be conducted in accordance with the provisions of the Arbitration & Conciliation Act 1996 or any statutory modification or re-enactment thereof and the rules made there under.

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. However, no fees will be payable to the arbitrator if he is a Bank Officer.

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 claims. 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 award 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 manner, such costs or any part thereof shall be paid and fix or settle the amount of costs to be so paid.

SPECIAL CONDITIONS OF CONTRACT

1 CONTRACTOR NOT TO DEPOSIT MATERIALS IN A MANNER THAT MAY CAUSE INCONVENIENCE TO THE PUBLIC

The Contractor shall not deposit materials on any site which will seriously cause inconvenience to the public. The Employer may require the Contractor to remove any or all materials, which are considered by him to be a danger or inconvenience to the public or cause them to be removed at the Contractor's cost.

2. INFORMATION TO BE SUPPLIED BY THE CONTRACTOR

The Contractor shall furnish the Employer / Architect the following from time to time:

7.2.1 Detailed Industrial Statistics regarding the labour employed by him etc., every month (within 11th of succeeding month)

7.2.2 The Power of Attorney, name and signature of his authorized representative who will be in charge for the execution of the work.

7.2.3 The list of technically qualified persons (to be approved by the Architect) employed by him for the execution of the work within 15 days from date of start of the work.

7.2.4 The total quantity and quality of materials used for the works, every month within 5th of succeeding month.

7.2.5 The list of plant and machinery employed for this work every month.

7.2.6 Failure to submit any of these details in time, shall be treated as a breach of the contract and likely to result in, Levying a fine of Rs.1000/- for each default for each month and or Withholding payments, otherwise due

7.2.7 For the periods for which name of technically qualified persons are not given or for which such persons are not employed, recoveries shall be made at Rs.8000/- per month for each month of default.

7.2.8 In all these matters the decision of the Architect shall be final and binding.

3 PHOTOGRAPHS

The Contractor at his own cost shall take photographs of site and individual buildings during the progress of the work as directed by the Employer/Architect and submit two copies of each photograph with minimum size 25cm x 40 cm to the Employer/Architect.

4 INSPECTION BY THE CHIEF TECHNICAL EXAMINERS (VIGILANCE)

The proposed work covered under this tender, during its progress and/or after completion can also be inspected by the Chief Technical Examiner/Technical Examiner or Officers of the Central Vigilance Commission, Government of India, on behalf of Employer/Architect to ascertain that the execution of the work has been done with materials and workmanship all as stipulated in the contract and as directed. Contractor shall afford all reasonable facilities to the above vigilance staff and also provide them with ladders, tapes, plumb bob, level etc., as required and directed and also necessary labour skilled, unskilled to enable them to complete their inspection / study / technical scrutiny and no extra shall be admissible to the Contractor on this account.

5. INCOME TAX

Income tax shall be deducted from the Contractors' bills rules and regulations in force in accordance with

Income Tax Act prevailing from time to time. Quoted rates shall be deemed to include this.

6 GST:

The quoted rates shall be Exclusive of GST.

7. FIRM PRICE

The prices shall be kept Firm till the completion of work and no escalation including statutory variation will be admissible.

8. DRAWINGS & DOCUMENTS

The drawings accompanying the tender document are of indicative nature and issued for tendering purpose only. Purpose of these drawings is to enable the tenderer to make an offer in line with requirements of the Employer. However, no extra claim whatsoever shall be entertained for any variation in the "Approved for Construction" and "Tender Drawings" regarding any changes/units. Construction shall be as per drawings / specifications issued / approved by the Architect during the course of execution of work. Detailed construction drawings on the basis of which actual execution of work is to proceed will be furnished to the Contractor progressively based on the detailed construction program evolved after the award of work and also based on construction progress achieved.

Detailed working drawings on the basis of which actual execution of the works is to proceed, will be furnished from time to time during the progress of the work. The contractor shall be deemed to have gone through the drawings and bring to the notice of the Engineer – in – Charge discrepancies if any, therein before actually carrying out the work.

Copies of all detailed working drawings relating to the works shall be kept at the contractor's office on the site and shall be made available to the Engineer – in- Charge at any time during execution of the contract. The drawings and other documents issued by the Employer shall be returned to the Employer on completion of the works.

9. CONSTRUCTION EQUIPMENT

The contractor shall without prejudice to his overall responsibility to execute and complete the work as per specifications and Time schedule, progressively deploy adequate equipment's and tools and tackles and augment the same as decided by the Engineer – in -Charge depending on the exigencies of the work so as to suit the construction schedule. The tenderer shall submit a list of construction equipment's he proposes to deploy for the subject work along with deployment schedule. No construction equipment shall be supplied by the Employer. Tenderer to ensure deployment of suitable cranes and take all safety precautions during execution of work.

10. SITE ORGANISATION

The tenderer shall submit the details of organization proposed by him at site of work for the implementation of the works under the contract, together with bio-data of the key personnel. The contractor shall however without prejudice to his overall responsibility to execute and complete the works as per specifications and time schedule progressively deploy adequate qualified and experienced personnel together with skilled / unskilled manpower and augment the same as decided by Engineer – in – Charge depending on the exigencies of work to suit the construction schedule without any additional cost to Employer.

11 TEMPORARY WORKS

All temporary works, ancillary works, enabling works, including dewatering of surface and subsoil water, preparing approaches and working areas, wherever required for execution of the work, shall be the responsibility of the Contractor, and the price quoted by them shall be deemed to have included the cost of such works.

12 EXISTING SERVICES / STRUCTURES

Structures, drains, pipes, cables, overhead wires and similar services encountered in the course of the works shall be guarded from injury by the CONTRACTOR at his own cost, so that they may continue in full and uninterrupted use to the satisfaction of the Employer. Should any damage be done by the

CONTRACTOR to any structures, mains, pipes, cables or lines (whether above or below ground etc), whether or not shown on the drawings, the CONTRACTOR must make good or bear the cost of making good the same without delay to the satisfaction of the Engineer – in – Charge.

13. DISTINCTION BETWEEN FOUNDATION AND SUPERSTRUCTURE

To distinguish between work in foundations and superstructures, the following criteria shall apply:

- a. For all Equipment pedestals, silos, pipe racks, other foundations and RCC structures, Work done upto 300 mm level above finished grade level will be taken as work in foundations and work above this level will be treated as work in superstructures and payments would be made accordingly.
- b. All works upto level corresponding to ground floor level shall be treated as work in “Foundation and Plinth” and all works above the ground floor level shall be treated as “Work in Superstructure”.
- c. Irrespective of what has been stated above, all pavements, RCC retaining wall, all pipe sleepers and any similar item would be take as work done in foundations irrespective of locations, nomenclature and levels given anywhere.
- d. Where not specifically pointed out all works in cellars / sumps, tank pads, cable trenches or such similar items would be taken as work in foundations.

14. FRONTS FOR WORKS.

The work involved under this contract includes such works as have to be taken up and completed after other agencies on the job have completed their jobs. The contractor will be required and bound to take up and complete such works as and when the fronts are available for the same and no claim of any sort whatsoever shall be admissible to the contractor on this account. Only extension of time limit shall be admissible, if the availabilities of work fronts to the contractor are delayed due to any reasons not attributable to the Contractor.

15. HOUSEKEEPING:

It shall be the Contractor's responsibility to keep the work area clean and tidy always and shall be done on a day-to-day basis. Scrap, debris, oil spills, etc; generated during the course of work shall be disposed/carted away to unobjectionable place and the transportation for this purpose shall be arranged by the Bidder at his cost.

16. ABNORMAL RATES

The Contractor is expected to quote rate after careful analysis of costs involved for the performance of the complete the work consisting all specifications and conditions of the contract. If it is noticed that the rates quoted by the tenderer is unusually high (or) unusually low it will be sufficient cause for rejection of the tenderer unless the Employer is convinced about the reasonableness of the rate on scrutiny of the analysis for such rate to be furnished by the tenderer on demand. Notwithstanding anything there in stand, the rate once accepted by the employer shall be final and shall not be subject to any claim either on account of un- workability of rates or on any other ground whatsoever.

17. INSURANCE

17.1. Indemnity by the Contractor.

The contractor shall be responsible at all times during the currency of the contract for and shall defend, hold harmless and indemnify the Employer from and against any and all claims, liabilities, costs, damages and expenses (including court cost and legal fees) arising whether by way of indemnity or otherwise, in relation to any and all losses of every kind and nature resulting from damage to or loss or, loss of use or recovery, or destruction of property, or sickness, injury or death suffered by any personnel or consultant of the contractor, its affiliates, agents or sub-contractors and damage to or loss or, loss of use or recovery

or destruction of any property or equipment belonging or contracted to or otherwise in the custody of the contractor its affiliates, agents or sub-contractors or its or their personnel or consultants (other than Employer equipment) in connection with the performance of this contract.

17.2. Contractor's Personnel and Property.

The contractor shall be liable for and shall indemnify the Employer, the participants and Employer's personnel from and against all claims in respect of any death or injury or contractor's personnel and any damage to contractor's property in each case caused by or arising out of the performance of this contract and whether or not arising in respect of a serious event. The assumption of liability and the indemnity contained in this clause extends to any claims made against the Employer pursuant to any provision of any agreement.

All contractor's personnel which may include permanent, temporary or casual, servants, agents and / or representatives, contractual or otherwise, either contractor's and / or their sub-contractors, affiliates / subsidiaries / co-ventures shall be covered under contractor's workers compensation of statutory benefits and any damages or compensation payable in respect of accidents of injury as set forth and required by applicable law in the area of operations or such other jurisdiction under which contractor may become obligated to pay benefits.

17.3. Due Diligence

Apart from complying with the various expressed conditions it is necessary for the contractor to take reasonable precautions:

- : For safety of the property insured.
- : In selection of labour
- : To prevent injury, loss or damage

It is also requiring that the insured

- : To allow the insurer's access to examine the insured's premises plant and equipment
- : To minimize loss in the event of an accident.

17.4. Compliance With insurance Warranty:

The contractor is solely responsible for all the insurance warranties attached to the policies taken by him. The Employer should not be held responsible in any manner for non-compliance of the warranty.

17.5. Any Other Insurance As Required Under Law:

CONTRACTOR shall also carry and maintain any and all other insurance(s) which may be required under any law or regulation from time to time without any extra cost to Employer. Contractor shall also carry and maintain any other insurance, which may be reasonably required.

17.6. General Insurance Requirement.

All insurance's required under Clause shall be on terms and conditions issued by insurance companies or underwriters acceptable to the Employer.

17.7. Non-Performance Of Contractors Insurance Companies:

The insolvency, liquidation, bankruptcy or failure of any insurance company providing insurance for Contractor or its sub-contractors or failure or denial of any such insurance Company to pay claims accruing, shall not be considered a waiver of, nor shall it excuse Contractor from complying with, any of the provisions of this Contract. Nevertheless, such liability shall be to the sole account of the Contractor.

17.8. Failure to Provide Required Insurance:

In the event that Employer reasonably disapproves of the insurance companies concerned, or if any of the insurance policies be not procured or maintained pursuant to Employer, at its option, may notify contractor that the failure to provide the insurance is a material omission whereupon it is agreed that Employer, at its sole option, shall have the right either to purchase similar coverage, the cost thereof to be reimbursed forthwith by Contractor to Employer, or alternatively, to be deducted by the Employer from any sum due or thereafter becoming due to contractor from Employer whether under this contract or any other contract to which both Employer and contractor are parties. In any case, the liability in such situations shall be to the sole account of the Contractor. Employer, exercising right to take appropriate

policy under the above situation will in no way make themselves liable even if there is any deficiency in the policy so availed of.

17.9. No Limitation of Liability:

The required coverage referred to and set forth in the relevant Clause shall in no way affect or limit Contractor's liability with respect to performance of the work or any obligation under the Contract.

17.10. Period of The Insurance:

The contractor shall take the required insurance cover as above for this work and shall Effective from the date of signing of agreement with the Employer. Policies shall be renewed regularly till the completion of work in all respects.

18 UNDERTAKING.

The bidder shall give an undertaking that he has read the SCC and GCC and other terms and conditions of the bid document and agree to abide by all terms and conditions stipulated in the bid document. Also the bidders have to confirm that none of their personnel working in the bidders organization is / are relative of any chairman / Director/ employee or member of or a Director / Partner of the bidder's company or member of or a Director / Partner of the bidder's company / Organization / partnership / proprietary concern in any way.

19 SUB CONTRACTOR:

At the commencement of the job the contractor shall submit to the Architect/Employer the list of all Sub-contractors or other persons or firms to be engaged by the contractor to work at the site. Any tenderer who had submitted the bid for this tender and does not get the contract because of his being not the lowest will be prohibited from working as a sub-contractor for execution of this contract.

20 REVIEW MEETINGS AFTER AWARD OF WORK:

The Contractor shall present the programme and status at various review meetings as required.

7.20.1 Weekly Review Meeting:

Level of participation: Contractor's Site in charge and job Engineers.

Agenda:

- a. Weekly programme v/s actual achieved in the past week and programme for next week.
- b. Remedial Actions and hold up analysis.
- c. Employer query/approval
- d. Safety compliance

7.20.2 Monthly Review Meeting:

Level of Participation: Contractor, Architect and Senior Officers of SBI

Agenda:

- a. Progress status / Statistics.
- b. Completion Outlook.
- c. Major hold ups / slippages.
- d. Assistance required.
- e. Criteria issues.
- f. Employer query/approval.
- g. Safety compliance.

21 PROGRESS REPORTS TO BE FURNISHED AFTER AWARD OF WORK:

21.1 Monthly progress Report:

Signature of contractor

This report shall be submitted on a monthly basis within ten calendar days from cut-off date as agreed upon, covering overall scenario of the work. the report shall include but not be limited, to the following.

- a) Brief introduction of the work.
- b) Activities executed/achievements during the month.
- c) schedule v/s actual percentage progress & material stocks, resource allocation and overall work.
- d) Areas of concern/problem/hold ups, impact and action plan.
- e) Resources deployment status.
- f) Safety compliance report
- g) Distribution: SBI: Three copies

21.2 Weekly Report

This report (3 copies) will be prepared and submitted by the contractor on weekly basis and will cover following items:

- a) Activities programmed and completed during the week.
- b) Resource deployed men and machine.
- c) Qty. achieved against target in construction.
- d) Record of Man-days lost.
- e) Percentage progress, schedule and actual.
- f) safety compliance report.

22 TEST CERTIFICATES:

The contractor shall submit the certificates for every batch of materials from recognized laboratories / agencies for approval of the Architect

23 WORKMANSHIP:

The contractor shall maintain workmanship of different items with an idea of providing trouble-free services to the users of different facilities. For this, it is expected that different fittings/fixtures after installation should not need attendance for a period 12 (Twelve) months and throughout the contract period the same has to be attended by the contractor at no extra cost to the Employer. All cement works shall have to be adequately cured as per relevant codes with no extra cost to the Employer.

24. SUPERVISION:

The contractor shall have to engage sufficient number of skilled persons to supervise and execute the work. The contractor shall solely be responsible for any defective construction/rectification as a result of poor supervision.

25 SPECIFICATIONS/ CODES AND STANDARDS:

All works under this Contract will be executed according to the specifications for works.

Whenever the details are not specifically covered in the specifications, relevant provisions in the latest revision of the Indian standard specifications (IS) or CPWD specifications will be followed. The contractor shall have to procure copies of such codes/ standards for ready reference of his own personnel as well as the Engineers at site at his own cost and without any additional reimbursement.

26 MATERIAL AND TRANSPORT:

All materials for successful completion of work shall have to be procured and supplied by the successful tenderer at his own cost. The materials supplied by the contractor shall be of approved quality and approval also shall have to be taken from the Architect before using the materials to the work. Rejected materials, if any, shall have to be removed by the contractor with his own labour and transport at his own cost immediately on receipt of the instruction.

27 CLEANING DURING EXECUTION AND AFTER COMPLETION:

Signature of contractor

On completion of the works the contractor shall reinstate and make good at his own expense any property or land which might have been disturbed and/or damaged by his works. He should also clean the site as required during execution and fully clear the site after completion of all the works. The contractor shall forward any usable materials found during the course of construction at the work site dispose of the debris all at his own expense by his own transport and labour and clean out all part of the work and leave everything clean and tidy to the entire satisfaction of Architect/Employer.

28 EXTRA ITEMS RATES :

The work or extra items shall be started only after the approval of extra items rates by Employer / Architect. Rates for additional or extra items of construction work, which can be derived from the contract item rates and are not covered in the contract, shall be calculated on the basis of actual cost plus 15% for profit and over heads. In case if similar works form a part of the tender the same shall be derive from such tenders' rates.

29 FAIR WAGES

The fair wage rates for all categories of employees/labours should be as per prevailing in the district on the date of receipt of tender/work order and any notification subsequently published by the respective State Government/Central Government.

30 NOTICE TO BE GIVEN BEFORE WORK IS COVERED UP

The Contractor shall give not less than 7 days notice in writing to the Architects/ Bank before covering up or otherwise placing beyond the reach of measurement, any work in order that the same may be measured and correct dimensions thereof be taken before the same is so covered up or placed beyond the reach any work without the consent in writing of the Architect. If any work shall be covered up or placed beyond the reach of measurement without such notice having been given or consent obtained, the same shall be uncovered at the Contractor's expenses, or in default thereof no payment or allowance shall be made for such work or the materials, with which the same was executed.

31 ACTION WHERE NO SPECIFICATION / CONTRADICTION

In the case of any class of work for which there is no specification in Technical Specifications, such work shall be carried out in accordance with the I.S. Specification and in the event of there being no I.S. Specification, then in such case the work shall be carried out in all respects in accordance with the instructions and requirements of the Architect/Bank.

The work is to be carried out by combining the details in Schedule of Quantities, Drawings and Technical specifications. If there is any discrepancy or contradiction between Schedule of quantities, Drawings and Technical specification, the first preference is given to Description in schedule of quantities, second to drawings and third to Technical Specifications.

32 MODEL RULES FOR THE PROTECTION OF HEALTH AND SANITARY ARRANGEMENTS FOR WORKERS EMPLOYED BY CONTRACTORS

32.1 "Work Place" means a place at which, at an average 50 or more workers are employed in connection with construction work.

32.2 "Large Work Place" means a place at which, at an average 500 or more workers are employed in connection with construction work.

32.3 At every work place, there shall be maintained in a readily accessible place first aid appliance including an adequate supply of sterilized dressings and sterilized cotton wool. The appliances shall be kept in good order and, in large work place they shall be placed under the charge of a responsible person who shall be readily available during the working hours.

32.4 At large work places, where hospital facilities are not available within easy distance of the work. First Aid post shall be established and be run by a trained compounder.

32.5 Where large work places are remote from regular hospitals, indoor ward shall be provided with one bed for every 250 employee.

32.6 Where large work places are situated in cities, in towns or in their suburbs and no beds are considered necessary owing to the proximity of city or town hospitals, suitable transport shall be provided to facilitate removal of urgent cases to the hospitals. At other work places, some conveyance facilities, such as a car, shall be kept readily available to take injured person or persons suddenly taken seriously ill to the nearest hospital.

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

32.8 Where drinking water is obtained from an intermittent public water supply, each work place be provided with storage where such drinking water shall be stored.

32.9 Every water supply storage shall be at a distance of not less than 15m. from any latrine, drain or other source of pollution. Where water has to be drawn from an existing well which is within such proximity of latrine, drain or any other source of pollution, the well shall be properly chlorinated before water is drawn from it for drinking. All such wells shall be entirely closed in and be provided with a trap door which shall be dust and waterproof.

.32.10 A reliable pump shall be fitted to each covered well the trapdoor shall be kept locked and opened only for cleaning or inspection which shall be done at least once in a month.

.32.11 Adequate washing and bathing places shall be provided, separately for men and women. Such places shall be kept in clean and drained condition.

32.12 Scale of Accommodation in Latrines and Urinals:

There shall be provided within the precincts of every work place latrines and urinals in an accessible place, and the accommodation, separately for each for each of them, shall not be less than the following scale:

	No. of Seats
Where the number of persons does not exceeds 50-----	2
Where the number of persons exceeds 50-----	3
but does not exceed 100 -----	
For every additional 100	3 per 100

32.13 Latrines and Urinals for Women:

If women are employed separate latrine and urinals, screened from those of men and marked in the vernacular in conspicuous letter. "For Women Only" shall be provided on the scale laid in 6.0. Those for men shall be similarly marked "For Men Only". A poster showing the figure of a man and a woman shall also be exhibited at the entrance of latrines for each sex. There shall be adequate supply of water close to the urinals and latrines. laid in 6.0 Those for men shall be similarly marked "For Men Only". A poster showing the figure of a man and a woman shall also be exhibited at the entrance of latrines for each sex. There shall be adequate supply of water close to the urinals and latrines.

32.14 Latrines and Urinals:

Except in workplaces provided with water flushed latrines connected with a water borne sewerage system, all latrines shall be provided with receptacles on dry earth system which shall be cleaned at least four times daily and at least twice during working hours and kept in a strictly sanitary condition. The receptacles shall be tarred inside and outside at least once a year.

32.15 Construction of Latrines:

The inside walls shall be constructed of masonry or some suitable heat-resisting non-absorbent material and shall be cement-washed inside and outside at least once a year. The dates of cement washing shall be noted in a register maintained for the purpose and kept available for inspection. Latrines will not be of a standard lower than borne-hole system and should have thatched roofs.

32.16 Disposal of Excreta:

Unless otherwise arranged for by the local sanitary authority arrangements for proper disposal of excreta shall be made by septic tank or leach pit in conformity with the requirements of local public health authorities.

32.17 Provision of Shelters during rest:

At every workplace there shall be provided, free of cost, two suitable sheds one for meals and the other for rest separately for men and women for the use of labour. The height of the shelter shall not be less than 11 feet from the floor-level to the lowest part of the roof. The sheds should be roofed with at least thatch and mud flooring will be provided with a dwarf wall around not less than 750mm. Sheds should be kept clean and the space should be on the basis of at least 0.50 Square meters per head.

32.18 Creches:

At every work place, at which 50 or more women workers are ordinarily employed there shall be provided two huts for the use of children under the age of 6 year belonging to such women. One hut shall be used for infant's games and play and the other as their bed-room. The huts shall not be constructed on a lower standard than the following:

32.18.1 Thatched roofs:**32.18.2 Mud floor and walls:**

Planks - spread over the mud floor and covering matting. The huts shall be provided with suitable and sufficient openings for light and ventilation. There shall be adequate provision of sweepers to keep the place clean. There shall be two ayahs in attendance. Sanitary utensils shall be provided to the satisfaction of the Health Officer of the area concerned. The use of the hut shall be restricted to children their attendants and mothers of the children.

Where the number of women workers is more than 25 but less than 50, the Contractor shall provide at least one hut and one ayah to look after the children of women workers. The size of creche or creches shall vary according to the number of women workers. The creches or creche shall be properly maintained and necessary equipment like toys, etc. shall be provided.

32.19 Canteen:

A cooked food canteen on a moderate scale shall be provided for the benefit of workers wherever it is considered expedient.

7.30.20 The above rule shall be incorporated in the contracts and in notices inviting tenders and shall form an integral part of the contract.

8. SAFETY CODE

1 Scaffolds:

1.1 Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying material as well, suitable footholds and hand holds 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)

1.2 Scaffolding or staging more than 4m. above the ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached bolted, braced and otherwise secured at least 3 feet high above the floor or platform of such scaffoldings or staging and extending along the entire length of the outside and ends thereof with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.

1.3 Working platform, gangways, and stairways should be so constructed that they should not sag unduly or

unequally, and if the height of the platform or the gangway or the stairway is more than 3.6m above the ground level on the floor level. They shall be closely boarded, should have adequate width and should be suitably fastened, as described in (ii) above.

- 1.4 Every opening in the floor of a 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 1m. Wherever there are open excavations in ground, they shall be fenced off by suitable railing and danger signals installed at night so as to prevent persons slipping into the excavations.
- 1.5 Safe means of access shall be provided to all working platforms and the working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9 m. in length while the width between side rail in rung ladder width shall in no case be less than 290mm. for ladder upto and including 3m. in length. For longer ladders this width should be increased at least 20mm. for each additional meter or length.
- 1.6 A sketch of the ladders and scaffolds proposed to be used shall be prepared and approval of the Engineer-in-charge obtained prior to construction.
- 1.7 All personnel of the Contractor working within the plant site shall be provided with safety helmets. All welders shall wear welding goggles while doing welding work and all metal workers shall be provided with safety gloves. Persons employed on metal cutting and grinding shall wear safety glasses.
- 1.8 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.

2 Excavation and Trenching:

- 2.1 All trenches, 1.25m or more in depth, shall at all times be supplied with at least one ladder for each 30m in length or fraction thereof. Ladder shall be extended from bottom of the trench to at least 1m. above the surface of the ground. The side of the trench which are 1.5m or more shall be sloped back to give suitable slope or securely held by timber bracing, so as to avoid the dangers of sides to collapse. The excavated material shall not be placed within 1.5m. 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.
- 2.2 The Contractor shall take all measures on the site of work to protect the public from accidents and shall be bound to bear the expenses of defence of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any such persons or which may with the consent of the Contractor, be paid to compromise any claim by any such person.

3 Demolition:

- 3.1 Before any demolition work is commenced and also during the process of the work.
 - 3.1.1 All roads and open areas adjacent to work site shall either be closed or suitably protected;
 - 3.1.2 No electric cable or apparatus which is liable to be a source of danger over a cable or apparatus used by the operator shall remain electrically charged.
 - 3.1.3 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.

4 Personal Safety Equipments:

- 4.1 All necessary personal safety equipment as considered adequately by the Engineer should be kept available for the use of the person employed on the site and maintained in a condition suitable for immediate use, and the Contractor should take adequate steps to ensure proper use of equipment by these concerned.
- 4.2 Worker employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
- 4.3 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.
- 4.4 Stone breakers shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
- 4.5 When workers are employed in sewers and manholes, which are in use, the Contractor shall ensure that the manhole covers are opened and are ventilated at least for an hour before the workers are allowed to get into the manholes and manhole's so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public.

The Contractor shall not employ men below age of 18 years and women on the work of painting with products containing lead in any form. Wherever men above the age of 18 years are employed on the work of lead painting, the following precautions should be taken.

- .4.5.1 No paint containing lead or products shall be used except in the form of paste or readymade paint.
- 4.5.2 Overalls shall be supplied by Contractors to the workmen and adequate facilities shall be provided to enable the worker painters to wash during the cessation of work.
- .4.6 When the work is done near any place where there is risk of drowning, all necessary equipment 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 sustained during the course of the work

5 Hoisting Machines:

- .5.1 Use of hosting machines and tackle including their attachment, anchorage and supports shall conform to the following standards or conditions:
 - 5.1.1 These shall be good mechanical construction, sound material and adequate strength and free from patent defect and shall be kept in good repair and in good working order.
 - 5.1.2 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.
- 5.2 Every crane driver or hoisting applications operator shall be properly qualified and no person under the age of 21 years should be in charge of any hoisting machine including any scaffolding which give signals to operator.
- 5.3 In case of every hoisting machine and of every chain, hook, shackle swivel and fully block used in hoisting or as means of suspension for safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load, each safe working load of the conditions under which it is applicable shall be clearly indicated. No part of any machine of any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.

5.4 In case of department machines, the safe working load shall be notified by the Engineer-in-Charge. As regards Contractor's machines the Contractor shall notify the safe working load to the machine to the Engineer-in-Charge whenever he brings any machinery to site of work and get it verified by the Engineer-in-charge concerned.

5.5 Motors, gearing transmission, electric wiring and other dangerous parts of hoisting, appliances should be provided with efficient safe guards 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 employ on electrical installations which are already energized insulating mats, wearing apparel, such as gloves sleeves and boots as may be necessary should be provided. The workers should not wear any rings, watches and carry keys or other materials which are good conductors of electricity.

All scaffolds, ladders and 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.

5.6 To ensure effective enforcement of the rules and regulations relating to safety precautions, the arrangements made by that Contractor shall be open to inspection by the Labour Officer, Engineer-in-Charge of the department or their representatives.

Notwithstanding the above clauses from 9.5.1 to 9.5.5 there is nothing in these to exempt the Contractor from the operation of any other Act or Rule in force in the Republic of India.

6. Penalties for Violation/Non-adherence of safety procedures and practices:

Event	Penalty
Absence of Resident Engineer of Contractor in site	Rs.1000 per Meeting
For non use of Personal Protective Equipment (Helmet, goggles, gloves, Safety belts, etc.,)	Rs.250/- per day/ item / person
Working at height / depth without permit and / or failure to arrange fall-protection arrangement (while works continue at heights / depth, i.e., 1.5 mtrs)	Rs.1000/- case/day
Failure to have regular site safety Inspection (by contractors themselves) every week	Rs.1000/- Week
Working without clearance	Rs.5000/- per occasion
Hot work without proper Clearance/ permit	Rs.10000/- per occasion
Non-Display of name board Permit etc.	Rs.500/- per occasion
Non fencing of excavated area	Rs.1000/- per occasion
Inadequate First Aid Box	Rs.500/- per occasion
For not providing shoring/ strutting/ proper slope and not keeping the excavated earth at least 1.5M away from the excavated area	Rs.5000/- per occasion

The rate of above penalty shall be double in case of violation of aforesaid acts more than three times during the pendency of the contract. In case of accidents depending on the seriousness of injury etc. in addition to the hospitalization / Treatment charges and Group insurance amount, compensation shall be paid by the Contractor to the affected person / his family members in presence of Engineer-in-Charge as per Workmen Compensation Act.

TECHNICAL SPECIFICATIONS FOR RETROFITTING WORKS

This specification establishes and defines the requirements of various materials to be used in Civil and Structural works.

Whenever any reference to IS Codes is made, the same shall be taken as the latest revision (with all amendments issued thereto) as on the date of submission of the bid.

Apart from the IS Codes mentioned in particular in the various clauses of this specification, all other relevant codes related to specific job under consideration regarding quality, tests, testing and/ or inspection procedures shall be applicable. Reference to some of the Codes in the various clauses of this specification does not limit or restrict the scope of applicability of other referred or relevant codes.

In case of any variation / contradiction between the provision of I.S. Codes and this specification, the provision given in this specification shall be followed.

All materials shall be of standard quality and shall be procured from renowned sources / manufactures approved by the Architect. It shall be the responsibility of the Contractor, to get all materials / manufactures approved by the Architects. If so desired by the Architects, tests shall be conducted in the presence of the Architects and Bank's authorized nominee.

Quality and acceptability of materials not covered under this specification shall be governed-by the relevant I.S. Codes. In case IS code is not available for the particular-material, other codes e.g.-B.S. or DIN or API/ASTM shall be considered. The decision of Architect, in this regard, shall be final and binding on the Contractor.

Whenever asked for, the Contractor shall submit representative samples of materials to the Architect for his inspection and approval. Approval of any sample does not necessarily exempt the Contractor from submitting necessary test reports for the approved material as per the specification /relevant IS Codes.

The Contractor shall submit manufacturer's test reports on quality and suitability of any material procured-from them and their recommendation on storage, application, workmanship etc. for the intended use. Submission of manufacturer's test reports does not restrict the Architect from asking fresh test results from an approved laboratory of the actual material supplied from an approved manufactures/source at any stage of execution of work.

All costs relating to or arising out of carrying out the tests and submission of test reports and or samples to the Architect for his approval during the entire tenure of the work shall be borne by the contractor and included in the quoted rates.

Materials for approval shall be separately stored and marked, as directed by the Architect and shall not be used in the works till these are approved.

All rejected materials shall be immediately removed from the site by the contractor at his own cost.

RETROFITTING / STRUCTURAL STABILITY WORKS

DEMOLITION - Examining concrete by tapping with light hammer and carefully removing carbonated concrete around the rebars upto 15-40mm depth by low impact high frequency hammer / chipper without damaging the sound concrete. The chipped concrete shall be cleaned using high pressure water jet with clean potable water. Daily cleaning and stacking of debris at prescribed location in polypropylene/ paper bags, disposing off the debris so generated outside the premises, etc. The area to be marked in straight line geometrical forms, The demarked area shall be grove cut by cutter on periphery to make perfect wedge shapes up to 25mm depth. Complete including stacking the serviceable material as directed at site & carting away unserviceable material / debris to the unobjectionable place.

ALKALINE RUST CONVERTING PRIMER FOR EXPOSED REINFORCEMENT BARS - Cleaning existing reinforcement with wire brush / rotary wire brush to make surface free from rust scales , loose material, dirt etc. complete and Providing & applying Alkaline Rust converting primer Feovert of Krishna Conchem or equivalent in two coats conforming to ASTM-B-117 & ASTM-G-60 86 to exposed existing rebars after removing & cleaning loose rust by wire brush. Curing time for each coat is 6--8 hours. The rust converter shall have a minimum pH of 7.5 and shall be able to convert both hematite and magnetite forms of rust shall pass 400 alternate immersion cycles in 3.5% NaCl. wherever directed it should be cleaned using high pressure water jet with clean potable water.

CORROSION PROTECTION OF EXPOSED REBARS USING ANTI-CORROSIVE PROTECTIVE COATING - Providing and applying anti - corrosive coating IPNet-RB of Krishna Conchem or equivalent in 2 coats with time interval of minimum 6hours. The coating shall have ECorr value of $\leq -45\text{mV}$ against SCE in 3.5 NaCL for 100 hours and electrochemical evaluation of max $0.5\text{mA}/\text{cm}^2$. This coating shall be applied over Feovert coated rebars. The coated rebars are to be allowed to cure in air for minimum 48 hours.

CORROSION PROTECTION OF UNEXPOSED / HIDDEN REBARS USING CORROSION INHIBITING COATING - Providing and applying concrete penetrating, migratory bipolar corrosion inhibitor EPCO KP-100 of Krishna Conchem or equivalent conforming to ASTM-G-109) by brush / spray repeatedly over the area as to dose $4\text{Sqm}/\text{ltr}$, over the entire chipped off / exposed concrete area including material, equipment, labour etc. complete in order to arrest further corrosion of reinforcement bars. wipe the surface with a moist cloth to remove any residual material which has not penetrated.

STRUCTURAL GRADE BONDING - Providing and applying two component non re-emulsifiable epoxy resin bond coat (EL Monobond)of Krishna Conchem or equivalent mixing as per manufacturer instruction on old concrete face conforming to ASTM-C-1059 - 86 Type II prior to application of any type of mortar or section build-up using Cementous media to ensure bond between old concrete & new concrete by brush application after wetting the surface sprinkling with little water. Note: Repair mortar/concrete should be applied within half an hour.

REPAIRING HEAVY DAMAGED CONCRETE AREA WITH MICRO-CONCRETE - Providing and applying non shrink, free flow, corrosion inhibiting micro concrete MOLITH_MC of Krishna Conchem or equivalent. Rebuilding the section of damaged RCC elements to its original size or as per consultants recommendations by providing and casting with micro concrete of grade M40 all lead lift, mixing, placing, centering, shuttering, levelling the surface by grinding off cementitious slurry or construction joint differences if any to satisfaction of engg. in charge, curing etc. complete. Ensure the quality of water by testing water as per IS456 and document the same. Ensure temperature at time of mixing should be between 25 to 40 degree Celsius by electronic temperature gauge

REPAIRING LESS DAMAGED CONCRETE AREA - Providing and repairing/applying the damaged concrete portion /surface preparation with single component cementitious polymer modified ready to use, corrosion inhibitor fiber reinforced repair mortar MOLITH-PMM of Krishna conchem or equivalent capable of applying 20-40mm(or as required) in single layer initially by hand and finishing with trowel, carefully compacting the same around the rebars and finishing to bring it in line with existing concrete surface complete as directed by Architect. On difficult surfaces use latex cement primer and where subsequent mortar finish is required over the repaired area scratch the surface with wire to create a mechanical key.

EPOXY INJECTION GROUTING AT CRACK AREAS - Drilling Holes of 12 mm dia, up to 100 mm deep holes in structural members at the intervals of 500mm c/c for slab, 300mm c/c for column and beam in staggered manner or along the crack as directed by the consultants in RCC structural element including cleaning of the holes by air blower and Inserting 12 mm dia. Teflon nozzles compatible with epoxy injector and having machined external end to receive outlet of grouting gun. Fix it inside the holes by applying thixotropic epoxy putty to ensure complete sealing and allow to cure the system for min. 8hrs before grouting including removing nozzle projections, excess putty if any over concrete element grinding, levelling and finishing the external surface, after completion of the work, etc.

Providing, Grouting/Injecting over porous slab or concrete area with low viscosity high molecular weight thermosett polymer grout Monopol 250 H of Krishna Conchem or equivalent to improve the microstructure of concrete, Including mixing material components part a and part b in required quantities as per mfg instruction by weigh batching, grout injecting with a pressure of 4 kg/cm² to 7 kg/cm². Use specialized injection instrument ROHIBB INJECTOR. Monitor leakages through other side of the member and seal them as per the requirement. Broadcast quartz sand over tacky surfaces to ensure mechanical keys for subsequent coating. Allowing the system to cure etc. complete.

General

CONCRETE (PLAIN AND REINFORCED)

This subhead covers the requirements for furnishing of cement concrete including materials proportioning batching, mixing, testing, placing, compacting, finishing, jointing, curing and all other work as required for cast-in-place/plain cement concrete/RCC.

Submittals

a) Materials Reports

Prior to start of delivery of materials required for cement concrete the following shall be submitted by the Contractor to the Engineer in charge/ Architect for approval.

(i) Recommended suppliers and / or sources of all ingredients for making concrete including cement fine and coarse aggregates, Water and additives.

(ii) Quality Inspection Plan to ensure continuing quality control of ingredients by periodic sampling, testing and reporting to the Engineer in charge / Architect on the quality of materials being supplied.

b) Plant & Equipment

The Contractor shall submit the following to Engineer – in - charge / Architect well in any change in source of water, water samples shall be tested again to meet the specified requirements.

Water shall be stored in tin barrels, steel tanks or water-tight reservoirs made with bricks / storm or reinforced concrete, brick / stone masonry reservoirs shall have R.C.C base slab and shall be plastered inside, with one part of cement and four part of sand and finished with neat cement punning. These reservoirs shall be of sufficient capacity to meet the water requirement, at any stage of construction. Water for curing shall be of the same quality as used for concreting and masonry works. sea water shall not be used for preparation of cement mortar, concrete as well as for curing of the plain / reinforced concrete and masonry works. Sea water shall not be used for hydro testing and -checking the leakage of liquid retaining structures also.

g) Admixture & Additives

Chemical admixtures are not to be used until permitted by the Architect. In case their use is permitted, the type, amount and method of use of any admixture proposed by the Contractor shall be submitted to the Architect for approval.

Mixing: All cement concrete (plain or reinforced) shall be mixed in mechanical mixers.

Consolidation: Concrete for all reinforced concrete works in column footings, columns, beams, slabs and the like shall be deposited and well consolidated by vibrating, using portable mechanical vibrators. The rest of the concrete such as shelving etc. shall be deposited and well consolidated by pouring and tamping. Care shall be taken to ensure that concrete is not over vibrated so as to cause segregation.

Grade of Concrete: - The compressive strength of various grades of concrete shall be as per IS 456 latest version

NOTE: -

- i) In the designation of a Concrete mix letter M refers to the mix and the number of the specified characteristic compressive strength of 15 cm – cube at 28 days expressed in N/mm².
- ii) It is specifically highlighted that in addition to the above requirements, the maximum cement content for any grade shall be limited to 500 kg/cubic meter. The limitations shall apply to all types of cements of all strengths.
- iii) The minimum cement content for design mix concrete shall be maintained as per IS. Even in the case where the quantity of cement required is higher than the minimum specified above to achieve desired strength based on an approved mix design, nothing extra for extra cement used shall become payable to the contractor.

The first concrete mix design / laboratory tests, with admixture will be carried out by the contractor through any one of the reputed laboratories / Test houses.

The contractor shall submit the report on design mix from any of above approved laboratories for approval of Architect within 30 days from the date of issue of letter of acceptance of the tender No. concretion shall be done until the design mix is approved. In case of white Portland cement and the likely use of admixtures in concrete with ordinary Portland cement, the contractor shall design and test the concrete mix by using trial mixes with white cement and / or admixtures also, for which nothing extra shall be payable.

In case of change of source or characteristic properties of the ingredients used in the concrete mix during the work, a revised laboratory mix design report conducted at laboratory established at site shall be submitted by the contractor as per the direction of the Engineer-in-charge.

All cost of mix designing and testing connected therewith including charges payable to the laboratory shall be borne by the contractor.

Batching and Laying:

a) Ready Mix Concrete (RMC) obtained from the automatic batching plant shall be used. Transit mixtures shall transport the concrete to site. All the precautions shall be taken during the transportation and handling of concrete has to get the approval from Architect regarding source of ready mix concrete. Nothing extra on account of R.M.C & its transportation at site of work shall be paid.

b) The concrete shall be placed in position using tower crane or concrete pumps of adequate capacity to lift up to machine room level. use of mechanical hoists shall not be permitted for lifting of concrete to various levels. For pumping of concrete, the design of concrete mix shall be done separately. Nothing extra for laying concrete using concrete pumps or for extra concrete mix. design shall be paid. in other words, charges of carrying out concrete mix re-design due to change of source of raw material or re-design for pump able concrete etc. shall not be paid.

All other operations in concreting work light mixing, slump, laying, placing of concrete, compaction, curing etc., shall be as per latest IS codes.

Test specimen, Frequency of sampling, test results of samples, lot size, and standard of acceptance: -

The contractor has to arrange at site the centering and shuttering for 1700 Sq.mt before start of work. Only M.S centering / shuttering and scaffolding material unless and otherwise specified shall be used for all R.C.C work to give an even finish of concrete surface. However, marine - ply shuttering in exceptional cases as per site requirement may be used on specific request from contractor as approved by the Architect. Nothing extra shall be paid for the centering and shuttering circular in shape whenever the form work is having a mean radius exceeding 6m in plan.

In order to keep the floor finish as per architectural drawings and to provide required thickness of the flooring as per specifications, the level of top surface of R.C.C shall be accordingly adjusted at the time of his centering, shuttering and casting for which nothing extra shall be paid to the contractor.

As per general Engineering practice, level of floors in toilet / bath , balconies, shall be kept 12 to 20 mm a required lower than the general floors shuttering should be adjusted accordingly, Nothing extra is payable on this account.

in respect of all projected slabs at all levels including cantilever, canopy, the payment for the R.C.C work shall be made under the item R.C.C slabs. No extra payment will be made for shuttering, it should inclusive in R.C.C item.

Nothing extra shall be paid for providing drip course or moulding in the R.C.C projected surfaces whenever required.

Nothing extra shall be paid for laying in slanting position of centering, shuttering, reinforcement and R.C.C work for the slabs and beams of sloping roofs.

Form Work

General: The steel / Plywood form work shall be designed and constructed to the shapes, line and dimensions shown on the drawings. All forms shall be sufficiently watertight to prevent leakage of mortar. Forms shall be constructed in such a way so that it can be removed easily without disturbing the structure. Maximum height of column for which concrete can be placed at a time shall not be more than 1.5mtr. Floor height up to 3.66111 shall be considered as one floor.

Props shall be of steel. Timber used in centering should be suitable and strong. Pre moulded cement cubes or plastic blocks will be planned between form work and reinforced cement to achieve uniform cover of concrete.

Cleaning and Treatment of Forms: All rubbish, particularly chippings, shavings and saw dust, shall be removed from the interior of the forms (steel / ply) before the concrete is placed the form work in contact with the concrete shall be cleaned and thoroughly wetted or treated with an approved composition to prevent adhesion between form work and concrete. Care shall be taken that such approved composition is kept out of contact with the reinforcement.

Verticality of Frame Structure: All the columns of the frame will be checked for plumb by plumb-bob as well as by the theodolite as the work proceeds to upper floors. Internal columns will be checked by taking measurements from outer row of columns for their exact position.

Stripping Time: Form shall not be struck until the concrete has attained a strength at least twice the stress to which the concrete may be subjected at the time of removal of form work. The strength referred to shall be that of concrete using the same cement and aggregates with the same proportions and cured under conditions of temperature and moisture similar to those existing on the work. Where so required form work shall be left longer in normal circumstances and where ordinary Portland cement is used, forms may generally be removed after the expiry of the following periods.

a) Walls, columns and vertical faces of all structural members	2 days
b) Removal of props under slabs :	
(i) Spanning up to 4.5 mtr.	7 days
(ii) Spanning over 4.5 mtr.	14 days
c) Removal of props under beams :	
(i) Spanning up to 6.0 mtr.	14 days
(ii) Spanning over 6.0 mtr.	21 days

d) In case of cold weather the periods may be increased at the discretion of the Engineer-in-Charge / Architect. For other cement (like pozzolana etc) stripping time recommended for ordinary portable cement may be suitably modified. The number of props left under, their size and disposition shall be such as to be able safely carry full dead load of the slab beam or arch, as the case may be together with any live load likely to occur during placing of concrete, curing or further construction.

Removal of Form work : Form work shall be removed in such a manner as would not cause any shock or vibration that would damage the concrete. Before removal of surface and props, concrete surface shall be exposed to ascertain that the concrete has sufficiently hardened.

where the shape of element is such that from work as re-entrant angles, the form work shall be removed as soon as possible after the concrete has to avoid shrinkage cracking occurring due to the restraint imposed.

Finish to Concrete Work

a) All concrete while placing against form work shall be worked with vibrators rods and trowels as required so that good quality concrete is obtained.

b) All exposed surface of R.C.C lintels, beams, columns etc. shall be plastered to match with adjoining plastered face of walls after suitable hacking the concrete surface.

c) All surface of R.C.C slabs left for cupboard slab, shelves and working platform in kitchen etc. and other exposed surface of R.C.C work continuous to brick work shall be plastered (12mm thick) with cement mortar 1:4 (1cement : 4 fine sand) to give an even and smooth surface.

d) The top of loft slabs and shelves shall be smooth finished while the concrete is green with a flooring coat of neat cement to give a smoother and even surface. The exposed front face shall be finished in cement plaster 1:4 (1 cement : 4 is coarse sand) to bring it in line and level and finished i neat cement. such thin slabs shall be carefully cast so that they can be finished within their specified thickness. Additional thickness of plaster which makes this elements look unnecessarily heavy will be not allowed.

e) chicken wire mesh 24 gauge and 200101 mesh will be provided all along R.C.C surface adjoining brick work giving 1500101 lapping on either side using nails etc., for fixing mesh while plastering.

f) the rate shall be deemed to include for chicken wire mesh as given above and incidental labour such as chamfer splays, rounded or curved angles, grooves, rebate and with moulds / courses.

Sampling and Testing of Concretes:

Samples from fresh concrete shall be taken as per IS-456-2000 (sampling and testing of strength of concrete) and cubes shall be made, cured and tested at 7th and 28days. for testing cement concrete the contractor shall arrange for all the tools / moulds for making necessary cubes and shall bear all the charges for making the cubes, curing and testing through an approved laboratory. Further the contractor shall make available laboratory equipment at site. A temporary room of adequate size having these facilities shall be constructed by the contractor it is expense. After completion of work the contractor shall remove the equipment, dismantle the room and clear the site.

Compressive strength test at 7 days may be carried out in addition to 28 days compressive strength test for o quicker idea of the quality of concrete. in all cases the 28 days, compressive strength alone shall be the criteria for the acceptance or rejection of the concrete.

Test Specimen: Three test specimens shall be made from each sample for testing at 28 days. Additional cubes may be required for such purposes as to determine the strength of concrete at 7 days or to check the testing error.

Test strength of samples: The test strength of the sample shall be the average of the strength of three specimens. The individual variation shall not be more than ± 15 percent of the average.

LOT SIZE :-

The minimum frequency of sampling of concrete of each grade shall be in accordance with the following :-

QUANTITY OF CONCRETE IN THE WORK (CUBIC METRE PER DAY)	NUMBER OF SAMPLES (having 3 samples each)
1 - 5	1

6 - 15	2
16 – 30	3
31 – 50	4
51 & above	4 Plus one additional sample for each additional 50 cubic meter of part thereof.

NOTE : At least one sample shall be taken from each shift.

Mix of cement concrete/reinforced cement concrete required to be used in various locations/ situations shall be shown on drawing. Wherever not mentioned shall be as under :-

(a) Cement concrete in floors (self finished) and concrete as under layer for terrazzo floor cast in situ shall be PCC 1:2:4 (1 cement: 2 coarse aggregate : 4 graded stone aggregate 12:5 nominal size).

(b) Cement concrete for RCC work in wall, columns footings, beams/Roof/floor slabs, landing, fins, lintels, chajjas, shelves, staircases, balconies, Loft slabs shall be of M20 Grade mix cement concrete and in Pedestals and Columns shall be of M25 Grade mix cement concrete

(c) Cement concrete in PCC filling for pressed steel frames, hold fast blocks and rainwater pipes etc. shall be 1:3:6 (1 cement :3 of coarse sand: 6 stone aggregate 20 mm nominal size).

(d) The mix (1:2:4) shall conform to M 15 (nominal) and mix (1:1.5:3) shall conform to M 20 (nominal) as per IS 456-2000 for the purpose of testing and acceptance based on 28 days strength.

(f) Lean cement concrete below columns/walls footings and in sub flooring of stilt floor shall be of mix 1:4:8 (1 cement : 4 coarse sand : 8 stone aggregate 40 mm nominal size).

Bearing Plaster

This shall consist of cement plaster 1:3 (1 cement :3 fine sand) 20mm thick finished with a coat of neat cement laid on top of walls as bearing for RCC lintels, beams and slabs, when dry, a thick coat of lime wash shall be given before starting, shuttering. The shuttering shall be started after minimum one day of bearing plaster so that it is set.

Concrete filling for sunken and lowered portions of slab: This shall be cement concrete 1:5:10 (1 cement : 5 coarse sand: 10 brick ballast 40mm nominal size) in the entire sunken portions or cinder filling as per specifications shall be provided.

Damp Proof Course:

(a) This shall consist of 40mm thick PCC 1:2:4 (1 cement: 2 coarse sand :4 graded stone aggregate :12.5mm nominal size) with water proof compound confirming to IS-2645) as per manufacturer's specifications.

(b) DPC as specified above shall be provided 40mm thick at level with finish floor to the full width of walls (Ground floor only).

(c) No DPC shall be provided over dwarf walls but floors shall be carried over to the full width over the dwarf wall finished 10mm projecting over from the wall.

(d) The dried up surface of DPC shall be cleared with brushes and finally with the piece of cloth soaked in kerosene oil and then applied with hot bitumen using 1.7 Kg. per sqmt. of DPC area.

(e) Vertical Damp proof course shall be provided at ground floor on common walls between floors at different levels and shall consist of 20mm thick plaster of mix 1:4 (1 cement: 4 coarse sand) with water proofing compound as per manufacturers specification and as in (d) above before filling earth/sand is carried out.

Plinth Protection

PCC 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20mm nominal size) 50mm thick of width as shown on drawing shall be provided and laid in alternate bays in slope over 75mm hard core of rammed dry brick aggregates of 40mm nominal size over well rammed and consolidated earth base with brick edging all around the buildings except in portions covered by steps, ramps and platforms. A joint of 10mm shall be left through depth of concrete all along with junction between wall and plinth protection at all turnings and across at every 2.5m. these joints shall be filled with a mixture of blown grade Bitumen 85/25 and sand. The surface shall be finished smooth without using extra cement. Brick edging shall be laid on header with cement mortar 1:4 (1 cement:4 Coarse sand) as per detail as shown on drawings.

BRICK WORK

MATERIAL

12.33.1.1 Sand for Masonry Mortars: Unless otherwise indicated, sand for masonry mortars shall consist of natural river sand (generally termed as coarse sand) conforming to IS 2116-1965 specifications for sand for masonry mortars. Sand shall be hard, durable, clean and free from adherent coatings and impurities such as iron particles, alkalis, salts, coal, mica, shale or similar laminated or other materials exceeding the specified limit. Grading of sand shall be as under:

-----IS Sieve		
	Percentage Passing by weight	
	Un reinforced masonry	Reinforced masonry
4.75mm	100	100
2.36mm	90-100	90-100
1.18mm	70-100	70-100
600 micron	40-100	40-100
300 micron	5-70	5-70
150 micron	0-75	0-10

The maximum quantities of clay, fine silt and fine dust in sand shall not be more than 8 percent by volume, Organic impurities shall be below that obtained by comparison the standard solution on specified in 6-2-2 of IS 2386 (Part II 1983). The coarse/fine sand shall be from river Krishna or from any other source conforming to the above standards.

Common Burnt clay building brick : Common burnt clay building bricks (herein-after termed as bricks shall conform to the requirements laid down in IS-1077-1976 for common burnt clay building bricks. Bricks shall be class designation 75, sub Class 'A' as per parameters given in the IS regarding edges, dimensions etc. The overall dimensions shall however be as per local practice of moulds. Water absorption after immersion in cold water for 24 hours shall not exceed 20% and grading for efflorescence shall be less than moderate. Bricks shall be free from cracks, flaws and nodules of free lime. Dimension shall be all within tolerance. Under/over burnt bricks and warped bricks shall be totally rejected.

Test check on random samples from each lot of bricks brought at site shall be carried out for compressive strength and water absorption test. Results of these tests duly signed and dated by Contractor; Architect and Engineer in charge shall be recorded in a separate register, which shall be kept with the Engineer in charge.

WORKMANSHIP - MASONRY MORTARS

Preparation of Cement Mortars: Mortar shall be of mix as indicated. The mixing specified is by volume. Mixing shall be done in a mechanical mixer. The mortar shall be mixed at least three times after adding of water. The cement mortar shall be freshly mixed for immediate use. Any mortar which has commenced to set shall be discarded and removed from the site.

Bond: All brick works shall be built in English bond, unless otherwise indicated. Half brick walls shall be built in stretcher bond. Header bond shall be used for walls curve on plan for better alignment, header bond shall also be used in foundation, stretchers may be used when the thickness of wall renders use of header impracticable. Where the thickness of footings is uniform or a number of courses, the top course of the footings shall be of

headers. Brick courses at DPC level and at all slab levels below the bearings of slab shall be as bricks on edges.

Half or cut brick shall not be used except where it is necessary to complete the bond.

Overlap in stretcher bond is usually half brick and is obtained by commencing each alternate course with a half brick. The overlap in header bond which is equally half the width of the brick is obtained by introducing a three quarter brick in each alternate course at quoins. In general, the cross joints in any course of brick work shall not be nearer than a quarter of brick length from those in the course below or above it.

Curing: The bricks shall be adequately wet before use and brickwork shall be constantly kept wet for at least seven days.

Half Brick Walls: The bricks shall be laid in stretcher bond in cement and sand mortar 1:4 (1 cement : 4 coarse sand) or as indicated. The reinforcement shall be 2 Nos. MS round bars or as indicated and as described in SUBHEAD VII steel and Ironwork. The diameter of bars shall be 6mm. The first layer of reinforcement shall be used at second course and then at every fourth course of brick work. The bars shall be properly anchored (min. 150mm) at their ends where the portions and or where these walls join with other walls columns. The inland steel reinforcement shall be completely embedded in mortar. Overlap in reinforcement if any, shall not be less than 30 cm. The cover i.e. the mortar interposed between the reinforcement bars and brick shall not be less than 6mm. The mortar covering in the direction of joints shall be not less than 15mm.

Brick work in foundation up to plinth: Brickwork in foundation shall be with brick of class designation 75 upto plinth level in cement mortar 1:6 (1 cement: 6 coarse sand).

Brick work in Super structure : Brickwork in superstructure including parapets shall be bricks of class designation 75 in cement mortar 1:6 (1 cement: 6 coarse sand).

Brick work in Steps of staircase : Brickwork in steps of staircase shall be in bricks of class designation 75 in cement mortar 1:6 (1 cement: 6 coarse sand).

Parapets and Railings : Parapets and railing shall be provided to balconies, Terraces, roof tops and stair landing etc. of upper floors as per details shown on drawings.

70mm Thick Brick Work

70mm thick brick work shall be provided with bricks of class designation 75 in cement mortar 1:3 (1 cement : 3 coarse sand) wherever shown in the drawings.

ALUMINIUM DOORS, WINDOWS & VENTILATORS.

The Aluminum extruded sections shall conform to Designation 63400 given in IS 737-1986 and shall be of manufacturers such as JINDAL or Hindalco or INDAL or equivalent manufacturers to be approved by the Engineer in charge/ Architect.

The Aluminum Doors, Windows, Ventilators and Glazing sections shall be anodized (anodic coating shall conform to IS 1868) As per colour approved by the Engineer in charge/ Architect.

The fabrication shall be carried out having mechanical joints, accurately machined and fitted to form hairline joints, with the vertical and horizontal sections at the corners to meet in 45 degrees mitred. The jointing shall be either with accessories such as cleats and cleating screws or by crimping with Hydraulics Press on to heavy duty extruded Aluminum cleats. The relevant arrangement shall be got approved by the Architects/ Engineer in charge. The glazing shall be fabricated and anchored to withstand wind pressures as per the Indian Standard.

Before proceeding with any manufacture, Shop Drawings for each typical elevation shall be submitted for the approval of the Architect and no work shall be performed until the approval of the shop Drawings is obtained.

All Glazing shall be air tight and water tight, using appropriate extruded EPDM gaskets/ as manufactured by MODI or equivalent; and sealant which shall be of high quality and performance requirements. Each Glazing shall be tailor-made as per openings at Site. No cutting and making good of exposed grit wash plaster surfaces shall be permitted.

All the Aluminum sections shall be wrapped with self-adhesive non-staining thick layer of PVC tapes as approved by the Architects, and shall be duly packed for avoiding scratches or blemishes to the powder coated surface of the sections till the installation is completed.

The frames shall be fixed to concrete/masonry/brick work with dash fasteners and the method of fixing shall be got approved by the Engineer in charge before installation. The drilling of holes for inserting the dash fasteners shall be carried out with drilling machines and the frame shall be fixed in plump, line and level at jambs, sills and heads.

The perimeter gap between the outer frame and the masonry shall be sealed with poly-sulphide sealant as per the make approved by the Engineer in charge.

Glazing: The glass panes shall be free from flaws, specks or bubbles and shall have square corner and straight edges. The glass panes shall be so cut that it fits slightly loose in the frames. The glass pane shall be fixed to the shutter with Aluminum beading and E.P.D.M. gasket properly snapped on as per the drawing. The glass panes shall be of approved make.

SUB HEAD - BUILDERS HARDWARE

Mongery shall be provided to all doors, windows and ventilator shutters with necessary matching screws of suitable size.

Fittings and fixtures to all doors shall be of Brass material from JYOTHI manufacturing company and for window and ventilators etc. fittings and fixtures shall be UPVC ISI marked of approved make. The contractor shall obtain the approved of the name of the manufacturer and brand of fittings from Engineer in charge/ Architect before placing the supply order. If demanded an approved copy of Bureau of Indian Standard letter under which the manufacturer has been issued the license and authorized to make the items of builder hardware with ISI marking should be attached and one sample of each fittings of the particular brand duly ISI marked shall be given by Contractor.

Handles for window shutters shall be 75mm long and door shutters shall be 125mm D-Type Aluminum anodized unless mentioned BOQ.

Magic eye for entrance door shall be wide angle best quality. This shall be fixed at 1400 mm height from finished door level.

One sample piece of each fitting shall be produced for approval of Engineer in charge/ Architect. The bulk supply order shall be placed by the Contractor only after approval is accorded by Engineer in charge/ Architect.

Schedule of Builder's Hardware

Schedule of Hardware's/fittings to door, window and ventilator shutters shall be as per drawings.

Mortice Latch (Vertical Type)

Mortice latch (Vertical type) shall confirm to IS 5930-1970, Specification for mortice latch (Vertical Type). These latches shall be capable of being operated inside and outside and shall be provided with a pair of Aluminum anodized lever handle fitted on the handle plate in order to close the door. The latches shall be of brass alloy. Face plate shall be provided in front of the ease plate, size of latch shall be 65mm.

Mortice Locks

Signature of contractor

These shall conform to IS 2209-1976. Specification for Mortice locks (Vertical Type). These shall have body, body covers, cast plate, faceplate, skirting plate lever, follower of cast brass and locking bolt and latch bolt extruded brass. Lever spring and latch spring shall be of phosphor bronze. The locks shall be supplied with 2 Nos. stainless steel keys. Locks shall be 6 lever. The lock shall be easily working with lever and shall be capable of being opened with from both inside and outside and shall be provided with a pair of Aluminum anodized lever handles on the handle plate in order to close the door from both side.

Hydraulic Door Closer (Floor Type)

The Contractor shall provide double acting Hydraulic Door Closer (floor type) model No. F-32, Cat No. 1204 with SS Plate. Capacity to carry door weight up to 380 Kg. of EVERITE brand. OR Cat No. OFS 9621 of OPEL brand. These shall be approved brand and manufacturer as above (Conforming to IS 6315) for Aluminum door including cost of cutting floor as required, embedding in floors and cover plate etc.

NOTE:-

1. If any of the fittings are not manufactured as ISI marked there shall be of the same brand of other the ISI marked fittings approved by Engineer in charge.

SUB HEAD - STEEL & IRON WORK

Quality of steel shall conform to the following specifications:-

- | | | |
|-----|------------------------|---------------------|
| (a) | Mild steel (Misc.) | IS 432-1966 Part I |
| (b) | MS reinforcement bars | IS 432 Part II 1962 |
| (c) | Structural steel works | IS 226-1962 |
| (d) | Steel Deformed Bars | IS-1786/1979 |

Reinforcement:

- (a) Reinforcement bars 6mm dia shall be MS bars.
- (b) All reinforcement bars 8mm and above shall be deformed twisted steel bars.
- (c) Laps and crossing shall be tied with mild steel binding wire of size not less than 0.9 mm dia.
- (d) The Contractor shall be responsible for accurate fixing and placing of reinforcement shown in drawing and shall not place the concrete until the reinforcement has been checked, passed and recorded by the Architect and Engineer in charge.
- (e) Reinforcement shall be bent and fixed as per IS-2502-1963.
- (f) Laps in reinforcement for columns, beams and slabs etc. will be as stipulated in IS. Or as shown on drawings.

Holdfasts: Holdfasts shall be made out of MS flats of size as specified with split fish tail ends coated with anti rust paint/tar. Holdfast shall be welded to door/windows frame as specified.

Steel Door frame and shutters: Size of door and locations shown on drawing and shall be comprising of frame and shutter fabricated and welded out of MS angle, plate & sheet and 10mm square tie bar. The door shall be painted with two or more coats of synthetic enamel paint of approved quality & shade over one coat of steel primer. Each MS gate shall have hold fast - 6 Nos. Butt hinges 125mm - 3 Nos. MS handles 100mm - 2 Nos. and MS sliding bolts 300 x 16mm - 2 Nos. (1 inside and 1 outside). Hold fasts shall be embedded in PCC block (1:3:6) of size 23 x 23 x 15cm.

Grills : MS grills manufactured out of flat iron, MS square tubes and round bars and of pattern as shown on drawing shall be provided to all windows openable/fixed, glazed portion of doors and fanlight of doors. All grills shall be fabricated and welded to frames.

Railing to staircases, landings, passages, balconies & parapets shall be provided as mentioned in BOQ.

Exhaust Fan opening : In Toilets provision for fixing of exhaust fan shall be made with a circular hole 300 mm dia in window / wall as shown on drawings. This opening shall be covered by bird guard fabricated out of galvanized iron sheet 18 gauge as shown in drawing.

ROOF COVERING, WATER PROOFING & RAIN WATER PIPES.

Cleaning the wall/floor Mechanically including wire brushing remove all loose particles of cement mortar, oils from the flooring. Later with a water jet clean all the flooring 24 hours before the work starts. Providing and applying two coats of POLYFLEX WP of B DRY make or equivalent, High performance polymer modified cementations waterproof coating with very high flexibility comprising of a POLYFLEX WP of B DRY make make or equivalent with 50% polymer component and 1200% elongation at break along microfine cement of B DRY make make or equivalent, with application as follows : Prepare a slurry using 1 part by weight of Polymer and 1¼ Microfine Cement of B DRY make or equivalent and 1/2 Liter water . Use a mix by weight of 1:1¼ for the first coat and 1:1¼ for total 3 coats. After the first coat is complete fix the mesh of B DRY make make or equivalent and then apply remaining two coats. The mixing is best done using a low- speed stirrer, but continuous hand-mixing to a lump-free consistency is also adequate. Apply the slurry by brush to the damp surface. Prepare only as much slurry as can be used within 30 minutes. Keep the mix continuously stirred. Apply by brush two more coats of similar slurry at 24 hour intervals and allow to set for 48 hours. Cure the coating for 7 days by sprinkling water thrice a day on the vertical surface (external walls) and by moist gunny bags on the horizontal surface. The total thickness of coating shall be 1.0 mm.

Water ponding test shall be conducted for 48 hours to identify the leakages. If leakage is noticed during test, same process shall be repeated or as suggested by manufacturer till the work passes the test, without any additional cost.

The Rate should include supply and providing of scaffolding wherever required.

The Rate should include curing the surface for 21 days.

d) Provision of approximately 1 rainwater outlet for every 40m² roof area shall be made

NOTE :- The Work Should Be Executed By Approved Applicator Of the Company. The Guarantee 10 year shall be signed as per the bank format by the applicator along with civil contractor.

Pressure Grouting

a) Drilling holes of 12mm dia and 75mm deep holes in concrete in staggered manner or along the crack as directed, cleaning of the holes by air blower and inserting 12mm dia. Teflon nozzles compatible with injector and having machined external end to receive outlet of grouting gun. Fix it inside the holes by applying (Grout mix consisting of microfine cement of B Dry make or equivalent and cebex100 additive of FOSROC make or equivalent at 225 grams pouch of cebex 100 per 25 kg of microfine cement of B Dry make or equivalent) and thixotropic epoxy putty to ensure complete sealing and allow to cure the system for min. 8hrs before grouting.

b) Grouting cement slurry added with expansive grout admixture of approved with 40 PSI grout pump through the nozzles one by one until it rejects. (including men, machinery and materials)

c) Rate should be inclusive of all material, labour, hacking, hardware, curing, transportation, scaffolding, machinery, and conveyance of all materials, labour charges at site etc., complete.

Protective Screed

On top of the coating a 20mm thick plastering using cement sand mortar (1:4) admixed with cement waterproofing compound Conplast X421IC @ 125 ml per bag of cement and polypropylene fibers @ 125 gms per bag of cement, shall be provided and finished smooth.

The work is to be carried by approved specialist waterproofing agencies like FOSROC or equivalent as approved by Bank / Architects . Work shall be done carefully .

Coving/Gola: Providing coving 75 x 75 in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 stone aggregate 10mm and down gauge) at the junction of RCC slab and wall and junction of tiles and parapet/wall including finishing exposed surfaces with cement mortar 1:4 (1 cement: 4 fine sand) as per drawing. Gola shall be done before plastering of parapet. The rates included in item of roof treatment.

Khurras: Making khurras 600 x 600 with average minimum thickness of 50mm cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 stone aggregate 10mm nominal size) finished with 6mm cement plaster 1:4 (1 cement: 4 coarse sand) and coat of neat cement including rounding of edges and making and finishing the outlets complete as per standard design/ COBA treatment. The rate included in the item of roof treatment.

Chajjas :- Slab shall be cleaned thoroughly and following treatment/covering shall be provided: Finishing with 12mm plaster in cement mortar 1:4 (1 cement: 4 coarse sand) mixed with water proofing compounds as per manufacturer's specifications OR @ 5% of amount by weight. This shall be applied after thoroughly cleaning surface.

NOTE: All CI/GI pipes and fittings passing through the wall of the sunken portion shall be laid/fixed before the treatment as specified above is carried out.

Unplasticized Rainwater Pipes:

a) The rain water pipes and fittings shall be provided with unplasticized PVC pipes conforming to IS-4985-81 and ISI marked. The u PVC pipes shall be of outside diameter 110 mm, 90mm and 165mm as shown on drawings and of working pressure 6 Kg./sq. cm. Internal & external surfaces of the pipes shall be smooth and clean, reasonably free from grooving and other defect. The U PVC pipes shall be jointed with PVC solution for concealed pipes and for exposed pipes with PVC collars by using lubricating solvent solution. Fittings shall be injection moulded or fabricated type conforming to IS-8008-1976 (Part I and IV) and/or IS 8360-1970 (Part-I to III) and/or as per manufacturers recommendations. The pipe shall start from 150mm above plinth protection at ground level with bend and a tee junction shall be provided at all terrace levels to collect water from khurras and vertical pipe shall be extended up to top of parapet. At top PVC cowl shall also be fitted.

b) Cast iron chamber and grating at the top and outlet of every rainwater pipe shall be provided and shall fit in snugly on the socket end of the pipe. The perforations in the grating shall be at least 60% of the total area of gratings.

c) Where the rainwater pipes are to be provided concealed within masonry the pipes shall be embedded in the walls with PCC 1:3:6 (1 cement: 3 coarse sand :6 stone aggregate 20mm down gauge) encasing all round. External surface of the pipes shall be painted with PVC adhesive and than coarse sand shall be sprinkled before embedding the pipe in the concrete for proper griping with concrete.

d) Rain water pipes running down along the walls/columns shall be firmly fixed to the wall/ column at all joints and one meter spacing on pipe with PVC clips as per manufacturer instructions.

e) Provide angled end pieces CI shoes at bottom and splash stones of size 450 x 300 x 20mm embedded in plinth protection. Stones shall be quartzite chisels dressed.

SUBHEAD – PLASTIC EMULSION AND FINISHING (PAINTING)

1. Emulsion shall be provided to all ceiling and internal surfaces of lofts staircase, stair lobby and of all building as shown on drawings.

2. Emulsion of approved shade shall be provided to all internal surfaces of walls as shown on drawings.

3. Before application of Emulsion the surfaces shall be prepared to a clean and even surface.

4. Emulsion shall be carried out in three coats.

5. Emulsion shall be carried out over white cement based putty as per manufacturer instructions to give even shade.

6. Emulsion shall be applied in specified coats by using flat brushers or spray pumps. Each coat shall be allowed to dry before next coat is applied, if additional coats than what have been specified are necessary to obtain uniform and smooth finish, it shall be given at no extra cost.

7. The finished dry surface shall not show any signs of cracking and peeling nor shall it come off readily on the hand when rubbed.

WALL PUTTY: BIRLA PUTTY

APPLICATION

1. Before applying remove all loosely adhering material from the wall surface with sandpaper, putty blade or wire brush.
2. Moisten the walls with sufficient quantity of water.
3. Mix the putty with 40- 50% water to make a workable paste.
4. Apply the first coat of putty on moistened surface from bottom to up words uniformly and left to dry for at least 3 hours.
5. Apply second coat and allows to dry for one day and finally rub the surface with fine emery paper to remove unevenness and to get glossy white surface.
6. Emulsion shall be applied in specified coats by using flat brushers or spray pumps. Each coat shall be allowed to dry before next coat is applied, if additional coats than what have been specified are necessary to obtain uniform and smooth finish it shall be given at no extra cost.
7. The finished dry surface shall not show any signs of cracking and peeling nor shall it come off readily on the hand when rubbed.

PAINTING

- 1.Exterior Emulsion / Texture Paint : Before the application of Apex, the surface shall be cleaned and wetted with water. Two or more coats of cement base paint shall be applied to give even shade on all external cement plaster surfaces, internal cement plaster surfaces of parapets, soffits of chajjas, lintels, beams, and sills as shown on drawings. The shade of the paint shall be used as approved by Engineer in charge/ Architect. Each coat shall be cured well by wetting surfaces for at least three days. This shall apply to all buildings.
2. Painting to Steel Surfaces: All exposed steel surfaces shall be prepared, cleaned with sandpaper to completely remove scales and rusts and shall be painted with two or more coats of synthetic enamel paint to give an even shade over one coat of steel primer. The shade of synthetic enamel paint shall be as approved by Engineer in charge/ Architect.
3. Painting to CI and GI Pipes: All exposed CI and GI pipes shall be painted by applying two or more coats of synthetic paint. The shade and quality shall be as approved by Architect/ Engineer in charge.

Proforma of Guarantee for Water Proofing

"This agreement is made this ----- day ----- month of 2025 -----

Between State Bank Of India , a body corporate constituted under Banking Regulating Act 1949, and having its at STATE BANK OF INDIA, Amaravati Local head office Hyderabad.. (herein after called the "Employer") of the part and ----- (Name of the firm/contractor)(hereinafter called "Guarantee") of the other part."

Whereas this Agreement is supplementary to a principal contract (Agt. No. ----- Dated ----- Made between the Employer of the one part and the Contractor of the other part, herein after called the contract), and made between the Employer of the one part and the Guarantor of the other part. Where by the Firm/Contractor inter alias undertook to render the buildings/structures completely water proofing. And whereas the Guarantors who have carried out the water proofing for all the structures on behalf of the principal Contractor has agreed to give guarantee to the effect that the said buildings/structures shall be water proof for a minimum period ten years from the date of completion.

Now the Guarantor hereby agrees to make good all defects and render the buildings/structures water proof, during this period of guarantee and to the satisfaction of the Employer. The Guarantor also agrees to take up such rectification work at his own cost and within one week from the date of issue of notice from the Employer, calling upon him to rectify the defects. The decision of the Employer as to the cost payable by the Guarantor will be final and binding, in case the Guarantor fails to commence the work as per above notice and the work is got done through some other contractor. That if the Guarantor fails to execute the water proofing work or commits breach there under then the Guarantor will indemnify the principal contractor and his successors against all loss, damage caused ,expenses or otherwise which may be incurred by him by any reason of any default on the part of Guarantor in performance and observance of this agreement. As to the amount of loss and /or cost incurred by the Employer, the decision of the Employer will be final and binding.

In witness where of these presents have been executed by obligator -----and by-----
- and for on behalf of the Employer on the day, month and year first above written.

Signed and delivered by ----- (bank) by the hands of Sri----- in the presence of-----
EMPLOYER WITNESS:

Signed and delivered by the hand of ----- (Contractor) in the presence of -----

GUARANTOR

PRINCIPLE CONTRACTOR

WITNESS:

(sd/-)
Employer

FORM OF AGREEMENT

ARTICLES of AGREEMENT made this _____ day of _____ year 2020 between the **State Bank of India, Regional Business Office, ELURU** (Hereinafter referred to as the "Employer/Owner/client" which expression shall, unless excluded by or repugnant to the context, includes its successors and assigns) of the ONE PART and _____ of _____ (Hereinafter referred to as "Contractor" unless excluded by or repugnant to the context, includes its successors and assigns) of the OTHER PART.

WHEREAS the Employer intends to carry out "**Civil Works for Structural Repair and Retrofitting of Eluru Main Branch Building , Andhra Pradesh** Shall herein after referred to as "**Project**".

AND HAS CAUSED drawings and specifications describing the works to be done prepared by Project Architects **M/s Kshetra** having their office at 528, Alekya Sadan Apartments, 6 No.Junction, Amberpet, Hyderabad -13 (hereinafter called "**the Architect**")

AND WHEREAS for the purpose of the above said project, the Employer invited sealed tenders from experienced, resourceful and bonafied contractors vide his Notice Inviting Tender (NO. _____ dated. _____).

WHEREAS the contractor submitted his Tender Documents containing Notice Inviting Tender, General notes, General Conditions of Contract, Special conditions, Schedule of approximate quantities and rates , Form of Agreement, General Specification, Approved manufacturers/ natural source of materials, Declaration, Technical Specifications as in Schedule of Quantities etc. for the above said project, (Hereinafter collectively referred to as the "said conditions"), duly signed on each page as a token of his acceptance of the same, along with requisite **Earnest Money Deposit**.

AND WHEREAS out of the Tenders received, the Tender of the contractor was found to be most suitable for the project.

AND WHEREAS the Employer has accordingly issued the work order (NO. _____ dt. _____) to the contractor subject to his furnishing the requisite Security Deposit.

AND WHEREAS the Contractor has accepted the aforesaid Work Order vide his letter of acceptance NO. _____ dt. _____ and has also deposited with the Employer a sum of Rs. _____ which with the Earnest Money of RS. _____ forms the requisite Security Deposit @ 2 % of the accepted Tender Value of Rs. _____.

NOW, therefore, it is hereby agreed to and between the parties as follows:

Contract documents

The following documents shall constitute the Contract Documents.

2. This Article of Agreement.

II. Tender Document submitted by the Contractor including the "said conditions", N.I.T and Schedule of quantity.

III. All correspondence between the Employer and the Contractor from the date of issue of N.I.T and the date of issue of work order.

IV. Work order No. _____ dt. _____

2) In consideration of the payments to be made to the Contractor as hereinafter provided the Contractor shall upon and subject to the said conditions, execute and complete the contracted project works shown upon the said drawings etc. and such further detailed drawings as may be furnished to the contractor by the said Employer and described in the said Specifications and the said Schedule of Quantities.

3) Notwithstanding what are stated in the N.I.T conditions of Tendering, Conditions of Contract of herein stated before, the Employer reserves itself the right of altering the drawings and the nature of the work and addition to or

Signature of contractor

omitting any items of work or of having portions of same carried out departmentally or otherwise and such alterations or variations shall be carried out without prejudice to this contract.

4) As mentioned in Article 1 above, the "said conditions" shall be read and be treated as forming part of this agreement and parties hereto will respectively be bound thereby and to abide by and submit themselves to the conditions and stipulations and perform the same on their parts to be respectively observed and preferred.

5) Any dispute arising under this agreement shall be referred to the Arbitration in a manner specified in the General Conditions of the Contract and all legal disputes shall be limited within the territorial jurisdiction of the Hyderabad thereto. The decision of the arbitration shall be final and binding on both the parties.

IN WITNESS WHEREOF THE PARTIES to their present have here under set and subscribed their hands, the day, month and year first above written.

Signed and delivered for and on behalf of
State Bank of India, Shri. _____ its duly authorized official, In the presence of –
3. (Name and Address)

4. (Name and Address)

Signed and delivered for and on behalf of

The Contractor _____ by Shri _____ his duly authorized official, in the presence of –
5. (Name and Address)

6. (Name and Address)

READ, UNDERSTOOD AND ACCEPTED

SIGNATURE OF THE CONTRACTOR WITH SEAL
DATE

READ, UNDERSTOOD AND ACCEPTED

Signature of contractor

LIST OF REGISTERS / RECORDS TO BE MAINTAINED AT SITE BY THE CONTRACTOR FOR THE FOLLOWING MATERIALS / ITEMS

- Cement
- Steel
- Anti – termite chemical
- Test Reports
- Brick work
- Hindrance
- Labour wages
- Site Order Book

Apart from the above, some other registers also to be maintained as and when required.

INDIAN STANDARD (IS) CODE

IS - 3764	-	Safety Code for Excavation Work.
IS - 2720	-	Part - II - Determination of Moisture Content
		Part - VII - Determination of Moisture Content Dry Density Relation using Light Compaction.
		Part - VIII - Determination of Moisture Content Dry Density Relation using Heavy Compaction.
		Part -XXVIII- Determination of Dry Density of Soils, in-place, by the Sand Replacement Method.
		Part - XXIX - Determination of Dry Density of Soils in-place, by the Core Cutter Method.
IS-6313 (Part I) :		Code of practice for Anti-termite treatment in buildings constructional measures.
IS-6313 (Part II):		Code of practice for Anti-termite treatment measure in building (pre-constructional chemical treatment).
IS 269		Specification for Ordinary, rapid-hardening and low heat Portland cement.
IS 455		Specification for Portland Blast Furnace Slag Cement.
IS 1489		Specification for Portland-Pozzolana cement.
IS 4031		Method of physical tests for hydraulic cement.
IS 650		Specification for Standard Sand for Testing of Cement.
IS 383		Specification for coarse and fine aggregates from natural sources for concrete.
IS 2386		Methods of tests for aggregates for concrete (Parts I to VIII)
IS 516		Method of tests for strength of concrete.
IS 1199		Method of sampling and analysis of concrete.
IS 3025		Methods of sampling and test (physical and chemical) water used in industry.
IS 432		(Parts I & II) Specification for mild steel and medium tensile steel bars and hard drawn steel wire for concrete reinforcement.
IS 1139		Specification for hot rolled mild steel and medium tensile steel deformed bars for the

	concrete reinforcement.
IS 1566	Specification for plain hard drawn steel wire (Part I) fabric for concrete reinforcement.
IS 1785	Specification for plane hard drawn steel wire for prestressed concrete.
IS 1786	Specification for cold twisted steel bars for concrete reinforcement.
IS 2090	Specification for high tensile steel bars used in prestressed concrete.
IS 4990	Specification for plywood for concrete shuttering work.
IS 2645	Specification for integral cement water-proofing compounds.
BS 4461	Cold worked steel bars for the reinforcement of concrete.
IS 10262	Recommended

Equipment

IS 1791	Specification for batch type concrete mixers.
IS 2438	Specification for roller pan mixer.
IS 2505	Specification for concrete vibrators, immersion type.
IS 2506	Specification for screed board concrete vibrators.
IS 2514	Specification for concrete vibrating tables.
IS 3366	Specification for pan vibrators.
IS 4656	Specification for form vibrators for concrete.
IS 2722	Specification for portable swing weigh batchers for concrete (single and double bucket type.)
IS 2750	Specification for steel scaffoldings.

Codes of Practice

IS 456	Code of Practice for plain and reinforced concrete.
IS 1343	Code of Practice for prestressed concrete.
IS 3370	(Parts I to IV) Code of Practice for concrete structures for storage of liquids.
IS 3935	Code of Practice for composite construction.
IS 3201	Criteria for design and construction of precast concrete trusses.
IS 2204	Code of Practice for construction of reinforced concrete shell roof.
IS 2210	Criteria for the design of R.C.shell structures and folded plates.
IS 2751	Code of Practice for welding of mild steel bars used for reinforced concrete construction.
IS 2502	Code of Practice for bending and fixing of bars for concrete reinforcement.
IS 3558	Code of Practice for use of immersion vibrators for consolidating concrete.
IS 3414	Code of Practice for design and installation of joints in buildings.
IS 4014	Code of Practice for steel tubular, scaffolding (Parts I & II)
IS 2571	Code of Practice for laying in situ cement concrete flooring.
IS 13920	Code of Practice for ductile detailing of reinforced concrete structures subjected to seismic forces.

Construction Safety

IS 3696	(Parts I & II) Safety Code for scaffolds and ladders.
IS 383	Coarse aggregates for concrete, except as stated above and for other than light weight concrete
IS 4031	Test blocks shall be prepared and tested in accordance with the requirements of IS 4031.
Water	Method of Test (Clause Ref. IS 3025-1964)

MASONRY

a) RUBBLE MASONRY

IS 1129 (1972)	Stone; Dressing
IS 8348 (1977)	Stone; slabs, stacking and packing for transportation

Signature of contractor

IS 1805 (1973)	Glossary of terms: quarrying and dressing
IS 1121 (1957)	Compressive, transverse and sheer strength determination
IS 8759 (1977)	Maintenance and preservation of stone
IS 4348 (1973)	Permeability determination
IS 1122 (1957)	Specific gravity and porosity determination
IS 4121 (1967)	Water transmission rate through natural building stone
IS 1706 (1972)	Wear resistance, determination by abrasion method

Coursed Rubble (First Sort) in Superstructures

IS 1597 (Part I).

BRICKWORK AND BLOCK WORK

IS 1077	Specification for Common Burnt Clay Building Bricks
IS 2116	Specification for Sand for Masonry Mortar
IS 2212	Code of Practice for Preparation and Use of Masonry Mortar
SP 27	Handbook of Method of Measurement for Building Works
IS 432	Specifications for Mild Steel and Medium Tensile Bars
IS 2185	Specification for Cement Concrete Block
IS 2572	Code of practice for Construction of Concrete Walls
IS 9103	Specification for Admixture of Concrete

CONCRETE BLOCK WORK

Hollow or solid concrete blocks shall conform to IS 2185

Mortar for Brickwork and Block work : IS 2250

Sand shall be natural sand in accordance with : IS 383

Workmanship for Brickwork : IS 2212

WALL AND CEILING FINISHES

IS 383	Specification for Coarse and Fine Aggregates
IS 412	Specification for Expanded Metal Sheets for General Purposes
IS 1542	Specification for Sand for Plaster
IS 1635	Code of Practice for Field Slaking of Building Lime and Preparation of Putty
IS 1661	Code of Practice for the Application of Cement and Cement-lime Plaster Finishes
IS 2394	Code of Practice for the Application of Lime Plaster Finish
IS 2402	Code of Practice for External Rendered Finishes
IS 2645	Specification for Integral Cement Waterproofing Compound MATERIALS

Cement shall be ordinary Portland cement conforming to IS 269

Lime shall conform to IS 712.

Sand shall conform to IS 1542

Pigments mixed with cement shall conform to IS 2114.

Integral waterproofing compound shall conform to IS 2645.

Expanded metal backgrounds for plastering and/or rendering shall conform to IS 412.

PAINTING

IS 427	Specification for distemper – dry colour
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Signature of contractor

IS 428	Specification for distemper – oil emulsion colour
IS 1477	Code of Practice for painting of ferrous metals in buildings – Parts I and II (Pre-treatment and Painting)
IS 2395	Code of Practice for painting concrete, masonry and plaster surfaces
IS 2932	Specification for enamel synthetic exterior undercoating and finishing
IS 2933	Specification for enamel exterior undercoating and finishing
IS 3140	Code of Practice for painting asbestos cement building products
IS 3537	Specification for ready-mixed paint, finishing, interior, for general purposes to IS colours
IS 3631	Specification for ready-mixed paint for finishing interior, alkyd and non-alkyd for general purposes to IS colours
IS 5410	Specification for coloured cement paints
IS 6005	Code of Practice for phosphating iron and steel
IS 6278	Code of Practice for whitewashing and colour washing

Washable oil bound distemper shall conform to IS 428

EXTERNAL SANITARY WORKS

IS 651 – 1992	Specification for Salt Glazed stoneware pipes and fittings (fifth revision).
IS 6924 – 1973	Code of practice for construction of refuse chutes in multistoried buildings
IS 1200 (Part 1)	Method of measurement of building earthwork IS 1200 (Part 16) Method Of measurement of laying of water and sewer lines including appurtenant
IS 1200 (Part 19)	Method of measurement of Water supply, plumbing and drains.
IS 783 – 1959	Code of practice for laying of concrete pipes
IS 13592 –IS 1992	Specification for unplasticized PVC pipes for soil and waste discharge system inside building including ventilation and rainwater.
IS 2527 – 1984	Code of practice for fixing rainwater gutters and down pipes for roof drainage.
IS 458 – 1988	Specification for precast concrete pipes (with or without reinforcement)
IS 782 – 1978	Specification for Caulking Lead.(Third revision)
IS 1172 – 1983	Code of basic requirements for water supply, drainage & sanitation (revised).
IS 1239 – 1990	Specifications for mild steel tube, tubular and other steel pipe (Part I)fittings.
IS 1239 – 1992 (Part II)	Specifications for mild steel tube, tubular and other steel pipe fittings.
IS 1726 – 1991	Code for cast iron manhole frame and cover (third revision).
IS 1742 – 1983	Code of practice for building drainage.(Second revision)
IS 2065 – 1983	Code of practice for water supply to buildings.
IS 3114 – 1985	Code of practice for Laying of CI pipes
IS 4111 – 1986	Code of practice for Ancillary structures in sewerage system
IS 1536 – 1976	Specification for centrifugally cast (spun) iron pressure pipes for water, gas and sewage.
IS 1537 – 1976	Specification for vertically cast iron pressure pipes for water, gas and sewage.

PREFERRED MAKE OF MATERIALS

NOTE: -

A List of Preferred Brand Names of Various Materials / Products are shown below for usage in execution of Work. However, Approved equivalent material of any other Specialized Companies / Firms may also be used , in case it is established that the Brands Specified below are not available in the market and subject to Approval of the alternate Brand by the Engineer In charge.

List of Approved materials for (Civil)			
Sl. No.	Material Description	Material	
		Brand	Make
1	Chloropyriphos	PIRAMID	AMVAC AGRI RASAYAN Pvt. Ltd.
		NOBAN	Chemtts Wets & Flows Pvt. Ltd
		DURSBANTCT	DE-NOCIL Ltd.
		Premise Agenda	Bayer Ltd.
		HILBAN	Hindustan Insecticides Ltd.
		Sarups Pest Control	Sarups Pest Control Ltd.
2	Ordinary Portland Cement (43 grade)	ACC	ACC Cements Ltd
		Ultra Tech	Ultra Tech Cement Ltd
		Coromandal	India Cements Ltd.
		Birla	Birla Corporation Ltd
		Chettinadu	chettinadue Cements Corporation Ltd
		Bharathi	Bharathi Cement Corporation Ltd.
		Dalmia	Dalmia Cement Bharat Ltd.
		Zuari	Zuari Cement Limited

	Jaypee Cement	Jaypee Cement Ltd
	Maha Cement	Myhome Industries Pvt. Ltd.
	J.K. Cement	J.K. Cement Pvt. Ltd.
	Ambuja Cement	Ambuja Cements Ltd.
	Penna Cement	Penna Cement Industries Ltd.

- 1) It must be ensured, in general, that all materials to be used in the works shall bear BIS Certification mark. In cases where for a particular material/product, BIS Certification Mark is not available, then the material proposed to be procured can be used subject to the condition that it should conform to CPWD Specifications and relevant BIS codes. In such cases written approval of the Engineer-in -Charge shall be obtained before use of such material in their works.
- 2) The list given below does not absolve the Executing Agency from their responsibility for using these products. It is only after, they are satisfied about the quality and performance, and the products shall be used. To achieve this, proper check on the quality of the product, actually to be used, should be exercised.

		Konark Cement	Konark Cement
		Centrue Cement	Birla Gold Cement
		Shree Cement	Shree Cement
3	Damp Proof material	MAPEI	MAPEI Construction Products India P Ltd
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Impermo	Snowcem Paints
		Duraseal	Apurva India Pvt. Ltd.
		ACCO Proof	ACC Cements Ltd
		Dr. Fixit	Pidilite Industries
		Fosroc	Fosroc Chemicals India Pvt. Ltd.
		CICO	CICO Industries
		SIKA	Sika India Pvt. Ltd.
		PIDILITE	Pidilite Industries
		BASF	BASF India Ltd.
		MYK	MYK LATICRETE India Pvt. Ltd.
4	TMT Bars Fe-500D	SAIL	Steel Authority of India Ltd.
		TISCO	TATA STEEL LTD.
		VIZAG	Rastriya Inspat Nigam Ltd.
		JSW	JSW Steel Ltd.
5	Plasticiser & Super Plasticiser	Contrament, Power flow	MC Bauchemie (India) Pvt. Ltd.
		Sunanda Chemicals	Sunanda Chemicals Ltd.
		MYK Schomburg	MYK Arments Range of products
		Plastiment, Sikament	Sika India Pvt. Ltd.
		Conplast SP 430	FOSROC India
		Chryso-HP/ Delta / Optima	Chryso India Pvt. Ltd.
		BASF	BASF India Ltd.
		CICO	CICO Industries
6	Expansion Joint Bitumen board	Dura Board HD100	Supreme Industries

		STP	Shalimar Tar Products
		DURAFILL	Supreme Industries
7	Post tensioning System	CRUX	Crux Processing systems Pvt. Ltd.
		VSL	VSL India pvt. Ltd.
		Ultracon	Ultracon Structural Systems Pvt. Ltd.
		BBR	BBR (India) Pvt. Ltd.
8	PT Strands	DP Wires	DP Wires Ltd.
		TATA wiron	TATA STEEL LTD.
		Usha Martin	Usha Martin Ltd.
9	Adhesive	Dunlop	India Tyre & Rubber Co (India) Ltd.
		Vamorganic	Vamorqanic Ltd.
		Sika	Sika India Pvt. Ltd
		Fevicol	Pidilite Industries
		CICO	CICO Industries
		Proofex of Adhesive	FOSROC India
10	Grout	Ardex	Ardex Endura Adhesive India Pvt. Ltd.
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		LATA POXY	MYK LATICRETE India Pvt. LTd.
		BASF	BASF India Ltd.
		Fosroc GP2	FOSROC India
		MYK Schomburg	MYK Arments Range of products
		Fugabella, Porcelana	Kerakoll India Pvt. Ltd.
		Dr. Fixit	Pidilite Industries
		Weber	Saint Gobain India Pvt. Ltd.
11	Ready Mix Concrete	Ultra Tech	Ultra Tech Cement Ltd
		ACC	ACC Cements Ltd
		RMC (India)	RMC (India) Pvt. Ltd.
		NUVOCO	Nuvoco Vistas Corporation

			Ltd.
		Aparna	Aparna Ready Mix concrete
12	AAC Blocks	Xtralite	Ultra Tech Cement Ltd
		Areocon	HIL
		Siporex	SIPOREX
		Nucon	Green Way building materials India Pvt. Ltd.
		NCL	NCL VEKA Ltd.
		Renacon	Renaatus Procon Pvt. Ltd.
13	Wooden Flush door shutters	Jayna Flush Doors	Jain Wood Industries
		Raavella door	Raavella Industries (P) Ltd.
		Kailash	Kailash Hi Tech Timber Industries India pvt. Ltd.
		Indian Timber Products	Indian Timber Products
		Shakthi	Shree Shakthi Modern Flush doors
		Greenlam	Greenlam Ply Industries Ltd.
		Mayur	Mayur Ply industries
		MP Ply wood products	MP Wood products
		Kitply	Kitply Industries Ltd.
		Duro Flushdoors	Dura Ply industries Ltd.
		Kenwood	Kenwood Ply & Board
		Century	Century Flush Doors

		KANCHAN PLY	M/s Vidya Ply & Board Pvt. Ltd
14	Water Proof Plywood, Commercial ply, Fire retardant ply and Block boards	Jayna ply	Jain Wood Industries
		Green Ply	Green Ply Industries Ltd.
		Kitply	Kitply Industries Ltd.
		Duroply	Duro Ply Industries Ltd.
		Archidply	Archid Ply Industries Ltd.
		Century ply	Century Flush Doors
		KANCHAN PLY	M/s Vidya Ply & Board Pvt. Ltd
15	Laminate	Green Lam	Green lam Industries Ltd.
		Century	Centuray laminates
		Merino	Merino laminates
		Archid ply	Archid ply industries ltd.
		Sonear	Sonear Laminates

Signature of contractor

		Royal touche	Royal touche laminates
		Kitmica	Kitply Industries Ltd.
		Sunmica	Sunmica Industries
		Vidya Ply	
		Formica	Formica Laminates (India) Pvt. Ltd.
		Decolam	Decolam India Pvt. Ltd.
16	Prelaminated particle board Exterior Grade	Novapan	GVK Novapan Industries Pvt. Ltd.
		Merino	Marino laminates
		Kitlam	Kit Ply Industries Ltd.
		TESA Action Co.	TESA Action Co.
		Ecoboard	Ecoboard Industries Ltd.
		Associate	Associate Décor Limited
		Archid ply	Archid Ply Industries Ltd.
		Centuary	Centuary MDF
		Green Lam	Green lam Industries Ltd.
17	High Desity (HDF) Prelaminated board	Pergo	Red Floor India
		Green ply	Green Ply Industries Ltd.
18	Gypsum Board	Gyproc Saint Gobain	Saint Gobain Gyprock India Ltd.
		Lafarge	Lafarge Gypsum India Pvt. Ltd.
		USG Boral board	USG Board India (P) Ltd.
		Armstrong	Armstrong wold Industries
19	Glass door hardware	Dorma	Dorma India Pvt. Ltd.
		Kich	Kich Architectural Products Ltd.
		Classic	Classic Hardware
		Squash	Squash glass doors
		Hafele	Hafele India Pvt. Ltd.
		Ozone	Ozone Hardware
		Geze	Geze GMBH
		Dorset	Dorset Industries Pvt. Ltd.
20	Hydraulic door closers/ Floor springs	Godrej	Godrej locking solutioin & systems
		Hardwyn	Hardwyn hardware

Signature of contractor

		MAGNUM KIT	Mukund Overseas
		Dorma	Dorma India Pvt. Ltd.
		Everite	Everite agencies
		Dorset	Dorset Industries Pvt. Ltd.
21	Locks & Latches	Dorset	Dorset Industries Pvt. Ltd.
		Godrej	Godrej locking solution & systems
		Hitech	Globe Locks India
		Hafele	Hafele India Pvt. Ltd.
		Harrison	Harrison locks
		Plaza	Bharat lock House
		Yale	ASSA ABOLOY India (P) Ltd.
		Link	Link Locks
22	Metalic / Steel Fire Door	Shakthi Hormann	Shakthi Hormann Pvt. Ltd.
		Promot	Promot fire & Insulation (P) Ltd.
		MPP Schodders	MPP Technology Pvt. Ltd.
		NAVAIR	NAVAIR International Pvt. Ltd.
		Signumfire Protection	Signumfire Protection pvt. Ltd.
		Sukri	Sukri Fire Doors Pvt. Ltd.
		Kenwood	Kenwood Ply & Board
		Godrej	Godrej Security Solutions
23	Fire Smoke Seal	Hilti	Hilti India Pvt. Ltd.
		Promat	Promat Fire & Insulation (P) Ltd.
		Atroflame	Atroflame ltd.
		Raven	Raven Global
24	Fire Rated hardware	Dorma	Dorma India Pvt. Ltd.
		Ingersolrand	Ingersolrand (India) Ltd.
		Dorset	Dorset Industries Pvt. Ltd.
		Backers FS	Backers FS
		Geze	Geze GMBH
25	Non Metalic Fire	NAVAIR	NAVAIR International Pvt. Ltd.

	door	Promot	Promat Fire & Insulation (P) Ltd.
		Godrej	Godrej Security Solutions
		Kenwood	Kenwood Ply & Board

26	Stainless Steel screws	Kundan	Kundan Industries Ltd.
		Alloy	Alloy Ltd.
		GKW	GKW Limited
		Nettlefold	Nettlefold Screws
		Pooja	Pooja Steel Corporation
		Atul	Atul fasteners Ltd.
27	Butt Hinges openable window shutters	Hafela	Hafele India Pvt. Ltd.
		Earit Bihari	Earit Bihari India Pvt. Ltd.
		Dorma	Dorma India Pvt. Ltd.
		Dorset	Dorset Industries Pvt. Ltd.
		Alu Alpha	Alu Alpha India
28	Mild Steel Butt Hinges/ Piano hinges	Jolly	Jolly Engineering works
		Supreme	Supreme Industries
		Saswat	Saswat
		Deepak	Deepak
		Swift	Swift screws
		Garg	D.P. Garg & Company
		Amit	Lovely metal Industries Pvt. Ltd.
		Jyoti	Jyoti Architectural Pvt. Ltd.
29	Stainless steel Butt hinges	Prayag	Prayag Polymers (P) Ltd.
		Ozone	Ozone Hardware
		Dorma	Dorma India Pvt. Ltd.
30	Concealed tower bolt	Dorma	Dorma India Pvt. Ltd.
		Ingersolrand	Ingersolrand (India) Ltd.
		Dorset	Dorset Industries Pvt. Ltd.
		Alu Alpha	Alu Alpha India
31	UPVC doors, door frames and windows	Fensta	Fensta DCM Shriman
		Encraft	Encraft India Pvt. Ltd.
		LG	LG India Pvt. Ltd.
		Rehau	Rehau Unlimited Polymer Solutions
		Aluplast	Alu Alpha India

		Komarling	Profile India Window Technology Pvt. Ltd.
		Duroplast	Duro Plast Extrusion Pvt. Ltd.
		Venster/ OKOTECH	Aparna Enterprises limited
		MARCOLINI	M/s Mathura Poly pack Pvt.Ltd.
		VEKA	M/s NCL Veka Ltd.
32	PVC Doors and Frames	Accucel	Accura Polytech Pvt. Ltd.
		Sintex	Sintex Plastic technology Ltd.
		Duroplast	Duroplast extrusion Pvt. Ltd.
		Polyline	Polyline extrusion Pvt. Ltd.

		Rajshri	Rajshri Productions Pvt. Ltd.
		NCL VEKA	NCL VEKA Ltd.
33	Stainless friction hinges	Hetich	Hetich India
		Haffle	Haffle India Pvt. Ltd.
		Securistyle	Securityle India Pvt. Ltd.
		Earl Bihari	Earl Bihari India Pvt. Ltd.
		EBCO	EBCO
		ROTO	ROTO Frank Asia
34	Float Glass	Saint Gobain	Saint Gobain India Pvt. Ltd.
		Asahi	Asahi India Glass Ltd.
		Pilkinton	Pilkinton India
		Modiguard	Gujarat Guardian Ltd.
35	Reflective glass	Saint Gobain	Saint Gobain India Pvt. Ltd.
		Asahi	Asahi India Glass Ltd.
		Pilkinton	Pilkinton India
		Modifloat	Gujarat Guardian Ltd.
		Glaverbel	Glaverbel India
36	Tempered reflective/ clear glass	Saint Gobain	Saint Gobain India Pvt. Ltd.
		FUSO	FUSO Glass India Pvt. Ltd.
		Gurind	Gurind India
		Asahi	Asahi India Glass Ltd.
		Modiguard	Gujarat Guardian Ltd.
		Imapct Safety	Impact Safety glass workes Pvt. Ltd.

37	Fire rated glass	Contra Flam / Pyroswiss of Saint Gobain	Saint Gobain India Pvt. Ltd.
		Promat	Promat Fire & Insulation (P) Ltd.
		Pyran of Schott	Schott glass India Pvt. Ltd.
		Pilkinton	Pilkinton India
38	Anchor/ SS Stone Cladding Clamps/ Dash fasteners	Hilti	Hilti India Pvt. Ltd.
		Fischer	Fischer India
		Anchor	Anchor Ltd.
		Nutech	
		Canon	Canon
		Wurth	Wuerth India Pvt. Ltd.
		Trixel	Axel India Pvt. Ltd.
		Helfen	Helfen Gmbh
		BOSCH	BOSCH Ltd.
39	Structural Steel	SAIL	SAIL
		TISCO	TATA STEEL
		VIZAG	RINL
		JSW	JSW

40	M.S. Pipe, Tubes	SAIL	SAIL
		TISCO	TATA STEEL
		Apollo	
		Kalinga	
		JINDAL	JSW
41	Stainless Steel	Salem	SAIL
		Connect	Connect Ltd.
		Ark Product Pvt. Ltd.	Ark Product Pvt. Ltd.
		Jindal	JSW
		SAIL	SAIL
		KINGSTON	KINGSTON
42	Stainless steel Bolts, washers, nuts	Kundan	Kundan Industries Ltd.
		Pooja	Pooja Steel Corporation
		Atul	Atul fasteners Ltd.

		Hilti	Hilti India Pvt. Ltd.
43	Stainless steel pressure plate screws	Kundan	Kundan Industries Ltd.
		Pooja	Pooja Steel Corporation
		Atul	Atul fasteners Ltd.
44	Welding rods	Advani	Advani oerlikon Ltd.
		ESAB	ESAB India Pvt. Ltd.
45	Metal Deck Sheet	TATA	TATA steel
		SAIL	SAIL
46	Shear Stud/ Connector	KOCO	KOSTER & CO
47	Vitrified Tiles	AGL	Asian Granite India Ltd.
		Marbita	Marito tiles
		NITCO	NITCO Ltd.
		RAK	RAK Ceramic India Pvt. Ltd.
		Restile	Restile Ceramic Ltd.
		Kajaria	Kajaria Ceramic Ltd.
		Somany	Somany Ceramic Ltd.
		Jhonson	Prism Jhonson Ltd.
		Varmora Granito	Varmora Granite Granite Pvt. Ltd.
		Naveen	Murudeshwar Ceramic Ltd.
		CERA	M/s CERA sanitary ware Ltd.
		Vitero	Aparna Enterprises limited
48	Glazed Ceramic tiles (Also wall tiles)	AGL	Asian Granite India Ltd.
		NITCO	NITCO Ltd.
		RAK	RAK Ceramic India Pvt. Ltd.
		Kajaria	Kajaria Ceramic Ltd.

		Somany	Somany Ceramic Ltd.
		Jhonson	Prism Jhonson Ltd.
		Varmora Granito	Varmora Granite Granite Pvt. Ltd.
		Naveen	Murudeshwar Ceramic Ltd.

		CERA	CERA Sanitaryware Ltd
49	Synthetic Sports Flooring	Armstrong	Armstrong flooring
		LG Wondorfloor	LG Hausys India
		Gerflor	RMG Polyvinyl India Ltd.
50	Linoleum sorts flooring	Armstrong	Armstrong flooring India Pvt. Ltd.
		Forbo	Forbo Flooring India Pvt. Ltd.
		Gerflor	Gerflor flooring
51	False Floor	Hewetson	Hewetson India
		Access floor sytem	Access Floor system
		Unifloor	Unifloor India Ltd.
		Unitile	Unitile office systems Pvt. Ltd.
		PINNACLE	
		Kebao	Inner Space (Distributors)
52	Engineered wood floor	Amstrong	Amstrong flooring
		Mikasa Real wood floors	Grean Lam Industries
		New wood	Naw Wood india ltd
		Werner	Duraflor wemer GmbH
		Pergo	Redfloor India
53	Floor spring (For non DSR Items)	Dorma	Donna India Pvt Ltd.
		Ingersolrand	Ingersolrand India Pvt Ltd
		OZONE	Ozone Hardware.
		GEZE	GEZE GmbH
54	Cement Concrete Parking Tiles	NITCO	NITCO Ltd
		Poddar	Poddar Udyog
		Eurocon	Eurocon tiles india
		Dazzle	Dazzle Designer tiles Pvt Ltd
		NTC	NTC Parking tiles
		Hindustan tiles	Hindustan tiles, Ranchi Pune
		Ultra	Ultra tile private Ltd
55	Synthetic Carpet tiles	TOLI	TOLI Corporation
		Hollitex	Hoilitex carper tilas

		Standard Carpets	Standard Carpets
56	Vitrified paving tiles	PAVIT	PAVIT Ceramics Pvt. Ltd.
57	Glass mosaic tiles	Italia	Tie italia mosaic Pvt Ltd
		Coral	Coral tiles

		Mridul	Mridut tiles
		Paljadto	Palladto Mosaics
		Bisazza	Bisazza Italy
		Birla White	Birla Corportion Ltd.
		JK White	JK Cement Ltd.
		PAVIT (Eco Tile)	PAVIT Ceramics Pvt Ltd.
58	Thermal Insulation treatment	Pidilite	Pidilite Industries
		Elastospray	BASF
		Rock India Pvt. Ltd	Rock India Pvt. Ltd
59	Acoustic Insulation	Twingerinsul	U.P. Twiga fiber glass ltd.
		Lloyd Insulation	Lloyd Insulation (India) Ltd.
		Saint Gobain Gyproc	Saint Gobain Gyproc India
		Himalyan Accoustics	Himalyan Accoustics
		Kanuf	Knauf Gypsum India Pvt. Ltd.
		Anutone	Anutone Acoustics Ltd.
60	UPVC Pipes and fittings (Rain water pipes)	Supreme	Supeme industries Ltd.
		Prince	Pnnce pipes and fittings Ltd.
		Finolex	Finales Industries Ltd.
		Prepoly	Premier PVC Industry
		Astral	Astral polytechnik Ltd.
		Ashirwad	Aahirwad PVC Pipes
		Flow Guard	Flow Guard
61	Sandwich PUF panelled roofing ghaets	Lloyd Insulation	Lloyd insulation (India) Ltd
		JINDAL MECTEC/ JINDAL	Mectec Pvt Ltd
		Danapalan	Danapal Light architecture
		GE Plastic	GE Silicones
		LEXAN	LEXAN Ltd
62	Poly corbanate	MG Polyplast	MG Polyplast

	Sheet	GE Lexon	GE Silicones
		Danapalan	Danapal Light architecture
		Alcox	Hindeggan Alcox Ltd.
		Polygal	Polygal India Pvt Ltd.
63	False ceilings	Aerolite	Andhra Polymers Pvt. Ltd./Aerolite Industries Pvt. Ltd
		Anutone	Anutone Accoustics Ltd.
		Armstrong	Amstrong World Industries
		Gridsquare	Gridsquare Ceilings
		Knauf	Knauf Gypsum India Pvt. Ltd.
		USG Boral	USG Boral
		Hunter Dougals	Hunter Dougals
		Saint Gobain Gyproc	Saint Gobain Gyproc India

64	False Ceiling Members (Perimeter, Ceiling section, intermediates, angles etc.,)	Armstrong	Armstrong Wond Indusvies
		Aerolite	Andhra Polymers Pvt. Ltd./Aerolite Industnas Pvt. Ltd.
		Griddsquare	Gridsquare Ceilings
		Gypframe steel	British Gypsum
		Knauf	Knauf Gypsum India Pvt. Ltd.
		Lloyd	Lloyd Insulation (India } Ltd
		Saint Gobain	Saint Gobain Gyproc
65	Synthetic enamel Paint	Premium gloss enamel	Asian paint Ltd
		Dulex	ICI dulex Ltd
		Nerolac	Nerolac Paints Ltd
		BergEr	Berger Paints
		Nippon	Nippon Paint India Ltd.
66	Pink primer	Wood primer	Asian paint
		Dulex	ICI dutax
		Nerolac	Nerolac Kansia Nerolac Pains Ltd.,
		Berger	Berger Paints
		Nippon	Nippon
67	Red Oxide Zinc	High performance yellow	Asian Paint

	Chromate primer	metal	
		Dulex	ICI dulex
		Nerolac	Nerolac
		Burger	Berger Paints
		Nippon	Nippon
68	Oil Bound Distemper	Tractor Aqalock	Asian Paint
		Dulux (Maxilite)	Dulux
		mG Polyplast	Nerolac
		Berger (BISM)	Berger Paints
69	Acrylic emulsion	Premium emulsion	Asian paint
		Dulex (Super Cover)	ICI Dulux
		Nerolac (Beauty Gold)	Nerolac
		Berger (BISM)	Berger Paints
70	Water Proof cement paint	Asian exterior wall primer	Asisn paint
		Berger	Bergar Paints
		Surfa	Surfactoats (India) Pvt. Ltd.
		ICI DULUX	ICI DULUX
		Cem Colour	Snowcem Paints
71	Acrylic smooth exterior paint	Dulux	ICI duLux
		Apex	Asian Paints
		Nerolac	Nerolac

		Berger	Berger
		Nippon	Nippon
72	Premium Acrylic smooth exterior Paint with silicon additives	ULTIMA	Asian paint
		Dulux	ICI dulux
		Nerolac	Nerolac
		Berger	Berger
73	Cement based wall putty	J.K wall putty	J.K. Cement Ltd
		Birla Wall Care	Birla Cements Ltd.,
		Asian paints	Asian paints Ltd

		Altek	NCL Alltek & seccold Ltd.
		Berger	Berger
		Ardex Endura	Ardex Endura India Pvt. Ltd.
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd
74	Acrylic textured plaster	Apex Duracast	Asian Paints
		Spectrum paints	Spectrum paints Ltd.
		Heritage	Heritage Rajkamal Group
		Asian paints	Asian Paints
		Neroloc	Neroloc
75	Ready mix cement plaster	Read Plast	Ultratech cements Ltd
		Gyproc plasters	Saint Gobain Gyproc India
		Ultra tech	Ultra tech Cement Ltd
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
76	Melamine Polish	Asian paints	Asian paints
		Melamine Gold Wudfin	Pidilite industries
		Polycure	Polycure Malaysia
77	Fire retardant paint	Jotun	Jotun paints
		Hilti	Hilti India Pvt. Ltd.
		Akzonobel	Dulex Akzonobel Paints
		Asian paints	Asian Paints
		STPL Ltd.	STPL Ltd.
78	Anticonotive bitumastic paint	Bergar	Berger paints India Ltd
		Shalimar	Shalimar paints India Ltd.
		IS 158 Bituminous black	Asian Paints
79	Cement Primer	Asian paints	Asian Paints
		JK Primaxx	JK Cement Ltd
		Berger	Berger paints India Ltd.
80	Epoxy Paint	Asian epoxy	Asian Paints
		Berger	Berger paints India Ltd.
		Shalimar	Shalimar paints India Ltd.
		STP Ltd.	Shalimar Tar Products

		Ardex Endura	Ardex Endura India Pvt. Ltd.
		Nerolac	Nerolac
81	Epoxy coating	BASF	BASF India Ltd.
		Fosroc	Fosroc indd
		Laticrete	MYK Laticrete India
		Ardex Endura	Ardex Endura India Pvt. Ltd
		Ferrous Crete	Ferrous Grete (India) Pvt. Ltd
82	Sililcon coating	Dow Corning	Dow corning Indd
		BASF	BASF India Ltd.
		GE	GE Silicones
		Wacker	Wacker silicones
83	Interlocking Concrete Paver Blocks	Dazzie	Dazzle Designer tiles Pvt Ltd
		Ultra	Ultra tile private Ltd
		Shree	Shree Bharat Paver blocks
		Hindustan tiles	Hindustan tiles, Ranchi Pune
		Vyara Tiles	VYARA Tiles Pvt. Ltd. / Surat
		NITCO (ROCKARD)	NITCO
		BHARAT (NILSON)	Bharat
		REGENCY	Regency
		Basant Betons	Basant Betons
84	Solar studs/ Median markers	3M	3M Science
		Avery Dennison	Avery Donnison India Pvt Ltd.
		Nikkalite	Nippon carbide Industires (USA)
85	Polycarbonate Convex mirrors, Rubbarised raad hump	Unique safety solutions	Unique safety solutions
86	Mirror	Modi Guard	Gujarat Guardian Ltd
		Saint Gobain	Saint Gobain Glass India Ltd.,
		AIS Mirror	Asahi India Glass Ltd.
		Atul	Autl Glass Industries Ltd.
87	Vitreous	Hindware	HSIL Ltd.

	Commodes/ Washbasin	Roca	ROCA Bath room products
		Parryware	ROCA Bath Pvt. Ltd.,
		Kohler	Kohler world Wide
		CERA	CERA Sanitaryware Ltd.,
		Jaquar	Jaquar Group
		Kerovit	M/s Kajaria Ceramic limited
		BATHSENSE	Asian paints(Bath division)

88	Flushing Cistern	Parryware	ROCA Bath Pvt. Ltd.,
		Kohler	
		Hindware	HSIL Ltd,
		CERA	CERA Sanitaryware Ltd.,
		Jaquar	Jaquar Group
89	SWR PVC Pipes & fittings	Supreme	Supreme Industries Ltd
		Astral	Astral polytechnik Ltd.
		Finolex	Finolex Industries Ltd .
		Flowgard	Ashirwad PVC Pipes
		Prince	Prince Pipes and fittings
90	Stainless Steel Kitchen sink	Jhonson	Prision Jhonson Ltd.,
		Diamond	Pheonix Appliances Pvt. Ltd.
		Jindal	Centuary polytech
		Nilkanth	Nilkant
		Nirali	Jyoti (India) Matel Industries Pvt Ltd
		Hindware	HSIL Ltd
		Silver Shine	Blue stone sanitary Industries Pvt. Ltd.
		Joyna	Joyna
		Navkar	Shri Navkar Metals Ltd
		Franke	Franke India Ltd.
91	Centrifugally	Futura	Futura Kichen Sinks India Pvt. Ltd.
		Neco	Jayaswal Neco Ltd

	Caste (Spun) Iren Soil Pipe9	SKF brand	SKF Industries
		HEPCO	HEPCO
		Bengal Iron Corporation	Bengal Iron Corporation
		Neco	Jayaswal Neco Ltd
		RPMF	Raj Pattern Makers and Founders Pvt. Ltd
92	PE-AL-PE Composite Pipes	Kitec	Kitec Industries (Índia) Pvt. Ltd.
93	G.I. Pipes	TATA	TATA Steel Ltd.,
		Zenith	Zenith Birla (India) Ltd.
		HISSAR	HISSAR
		Jindal	Jindal Pipes Ltd.,
94	G i Pipe fittings	Zoloto	Zoloto Industfiea
		Unik	Unik malleable
		HB	HB Industries
		ICS	Sgree samarth Englnears

95	Water supply Valves	Zoloto	Zoloto Industries
		leader	leader valves Ltd ,
		ARCO	Arco valves Pvt. Ltd ,
		Nanda	Nanda Miller company
96	CPVC pipe and fittings	SUpreme	Supreme Industries Ltd.
		Finolex	Finolex Industries Ltd.
		Astral	Astral Polytechnik Ltd..
		Prince	Prince Pipes and finttings Ltd.,.
		Truflo	HIS Ltd.
		Birla Aerocon	HIL Ltd.
		Ashirwad	Ashirwad PVC Pipes
		Flowgard	Flowgard
97	PVC / HDPE water storage	Sintex	Sintex Plastic technology Ltd.
		Vectus	Vectus Industries Ltd.

	tanks	SUPreme	Supreme Industries Ltd.
98	DI Pipes	Electrosteel	Electrosteel
		Jindal	Jindal
		Tata Ductura	Tata Ductura
		Kapilansh	Kapilansh
		Keshoram	Keshoram
99	DI Fittings	Electrosteel	Electrosteel
		Jindal	Jindal
		Tata Ductura	Tata Ductura
		Kapilansh	Kapilansh
		Keshoram	Keshoram
100	Water supply fixtures like bibcock, Shower panels	Jaquar	Jaquar Group
		Parryware	ROCO bath room products Pvt. Ltd,
		Metro	Metro sanitations Pvt. Ltd.,
		Waterman	Kewal brothers
		Seiko	Seiko Sanitations
		Prayag	Prayag polymers Pvt Ltd ,
		Kingston	Kingston brass India
		Johnson	Prism Jhonson Ltd
		MARC	MARK Showers
		HINDWare	HSIL Ltd.
		Kerovit	M/s Kajaria Ceramic limited
		ESS, BATHSENSE & Premium Range : Royale	Asian Paints (Bath Division)
101	Air release valva	Kirloskar	Kirloskar brothers Ltd.,
		RBM	AFS Ltd
		Kartar	Kartar valves private Ltd. ,
102	Centrifugally (Spun) cast Iran	Lanco / Sripipes	Electrosteel castings Ltd.
		Jindal	Jindal saw Ltd.

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		Kesoram	Kesoram Industries Ltd.
		Electrosteel	Electrosteel castings Ltd.
103	Spun cast iron fittings	Neco	JayaSwal Neco Ltd
		Kartar	Kartar valves private Ltd. ,
		Electrosteel	Electrosteel
		Kapilansh Centrifugal	Kapilansh Dhatu Udyoo (P)Ltd.
		SKF brand	SINGHALIRON FOUNOARY Pvt. Ltd.,
104	CI double flange sluice valve	Kirloskar	Kirtoskar brothers Ltd. ,
		RBM	AF-S LL,
		Kartar	Kartar valves private Ltd. ,
		IVS	Indian Valves Private Ltd.
		Zoloto	Zoloto Industries
		BURN	BURN
		Leader	leader valves Ltd ,
105	CI double flangad non return valve	Kirloskar	Kirloskar Brothers Ltd.
		Fluidtech	Fluidtech
		Zoloto	Zoloto Industries
106	Gun metal Valves	Zoloto	Zolota Industries
		Leader	leader valves Ltd ,
		Sant	Sant Valaves Pvt. Ltd.
		Audco	L&T Valves
107	PTMT/PVC water supply sanitary fittings, bibcocks, pillar cock Angle valve,	PEARL	Precision Products
		Prayag	Prayag Polymers (P) Ltd
		Supreme	Supreme industries
108	RCC Pipes	Indian Hume Pipes	Indian Hume Pipe Ltd.,
		Madurai spun pipe	Madura spun pipe company
		Lakahmi Sood & Sood	Lakshmi Sood & Sood Pipa Co.
		Jain & Co	Jain spun pipes Co.,
109	CI Manhole	Neco	Jayaswal Neco Ltd..

	cover	HEPCO	
		BIC	Bengal iron corporation
		RPMF	M/s Raj Pattern Makers & Founders Pvt. Ltd.

110	SFRC Cover and grating	KK	KK Manhole and gratings Co Pvt Ltd.,
		Advent	Advent concrete vision
		Kutty	Kutty Industries
		Nu-TEC	Nu-Tech concrete products (P) Ltd.,
111	Plastic Encapsulated Foot Rest	KK India	KK Manhole and gratings Co Pvt Ltd.,
		KGM	KGM Exports
		Accurate Buildcon	Accurate Buildcon company
112	Spun cast iron covers & gratings	Neco	Jayaswal Neco Ltd
		Jagannath	Sri Jaqannath iron Foundry Pvt. Ltd
		Kapilansh Centrifugal	Kapilansh Dhatu Udyoo{P)Ltd.
		SKF brand	SINGHALIRON FOUNOARY Pvt. Ltd.,
113	Aluminium doors/windows 6actions	Hindalco	Hindalco Industries Ltd..
		Jindal	jindal Aluminium Ltd ,
		Padmavati Exrusion	Padmavath Extrusion Private Ltd.
		Hydro	Hydro Extrusion
		Omalco Extrusion	Omalco Extrusion Pvt Ltd.
		Bhoruka	Bhoruka Aluminium Ltd.,
		Indal	indian Aluminium Ltd.,
114	Aluminium system/ Anodised	Define	Define Overseas Pvt. Ltd.
		Schueco	Schueco India Pvt. Ltd.,
		Bhoruka	Bhoruka Aluminium Ltd.,

	Mininium fittings for doors/windows	Kawneer	Kawnear India
		Hardima	Hardima sales corporation
		Everite	Everite Agencies
		Jyothi	Jyothi industries
		sigma	Sigma Corporation
115	Friction stay hinges	Earl Bihari	Earl Bihari Pvt. Ltd.
		KINLONG	Kinlong Industriss
116	EPDM Gaskets	Anand	Anand NVI-I products (P) Ltd.,
		Roof	Roop Polimers Ltd.,
		Bohra	Bohra rubber Pvt Ltd..
		Hanu	Hanu Industries
		Ame Rubber	Ame Rubber industries Pvt Ltd
117	Silicon Gaskets	Sree Geurev	Sree Gaurav Rubber products

118	Masking Tapes	3M	3M
		Sun	Sun
		Wonder polymer	Wonder Tape Industries
		Roop	Roop polymer Ltd.
119	Water proofing Compound	Fosroc	Fosroc India
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd.
		Sika	Sika India
		MYK Schomburg	MYK Schomburg range of products
		Penetron	Penetron India Pvt Ltd.
		Dr. Fixit	Pidilite industries
		Accoproof	ACC cement Ltd.
		Ardex Endura	Ardex Endura (India) Ltd.
		Alchemica	Alchemica Ltd.
120	Membarane water proofing system	BASF	BASF India Ltd.
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd.
		STP Ltd	Shalimar tar products

		MYK Schomburg	MYK Arments range of products
		Asian paints	Smart care water proofing products
		Dr. Fixit	Pidilite industries
		Alchemica	Alchemica Ltd.
		Ardex Endura	Ardex Endura Ltd.
		Hydro tech	Hydro tech Ltd.
121	Chemical water proofing system	BASF	BASF India Ltd.
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd.
		MC- Bauchemie	MC- Bauchemie India Ltd.
		Sika	Sika India
		Sunanda speciality coating	Sunanda speciality coating Pvt Ltd.
		Perma construction Aid	Perma construction Aid Pvt Ltd
		Fosroc	Fosroc India
		Dr. Fixit	Pidilite industries
122	Water stops	Hydrotite	Sika India
		BASF	BASF India Ltd.
		Dr. Fixit	Pidilite industries
		Ardex Endura	Ardex Endura Ltd.
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd.
		Hydroswell	Sika India
123	Aluminium composite panels	Alucobond	3A composites India Pvt Ltd.
		Eurobond	M/S Euro panel products Pvt Ltd.
		Aludecor	M/S Aludecor lamination Pvt Ltd.
		Reynobond	Reynobond
		Alpolic	Alpolic
		Alstrong	Alstrong

		Alstone	Alstone
		Eurobond	Eurobond Pvt Ltd.
		Hynadecor	Hynadecor
124		Rex Polyextrusion	Rex Polyextrusion Ltd.
		Akash Enterprises	Akash Enterprises
		Zenplas Pipes	Zenplas Pipes Pvt Ltd.
		Supreme	Supreme industries.
125	Play Equipments	Koochie Play	Koochie Play systems Pvt Ltd.
		Play world systems	Play world systems India.
126	Structural sealant	Dow corning	Dow corning india
		Wacker	Wacker silicones
		GE	GE silicones
		STP Ltd.	Shalimar tar products
		Asian paints	Smart care sealant
		Fosroc	Fosroc India
		BASF	BASF India Ltd.
127	Poly sulphide sealant	Dr. Fixit	Pidilite industries
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd.
		MYK Schomburg	MYK Arments range of products
		Pidilite	Pidilite Industries
		STP Ltd	Shalimar tar products
		Fosroc	Smart care sealant
		Techseal	Choksey chemical Pvt Ltd.
		Tuff seal	Bondit construction chemical
128	Bitumen Impregnated Board	Shalitex	Shalimar tar products
129	Polyethylene backer rod	Supreme	Supreme Industries
130	Epoxy	Fosroc	Fosroc India
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd.
		Shalibons	Shalimar tar products
		Asian paints	Asian paints

		Ardex	Ardex Endura Ltd.
131	Weather silicon make and grade	Down corning	Down corning india
		Momentive (GE)	GE silicones

132	GRC jali	Terrafirma	Terrafirma GRC Industries
		Ecovision	Ecovision Industries Pvt Ltd.
		Mahesh GRC	Mahesh Prefab Pvt Ltd.
133	Air transfer grills	Cool grills	Cool grills, Pune
		Systemair india	Systemair India Pvt Ltd.
134	Ready made/ Gypsum plaster	Ferrous Crete	Ferrous Crete (India) Pvt Ltd.
		Gyproc cute 100	Gyproc India.
		Ultratech	Ultratech cement Ltd.
135	Steel Windows/ Pressed steel frames	Madhu industries	Madhu industries, San Harvic, NCL
		San Harvic	San Harvic
		NCL	NCL Industries
136	PVC Door frames & shutters	Rajshri	Rajshrim Production Pvt Ltd.
		Plastic wood	Plastic wood
		Sintex	Sintex plastic technology Ltd.
		Accucel	Accura polytech Pvt Ltd.
137	PVC flooring	LG Hausys	LG Hausys
		Ger flor	Ger flor flooring
		Armstrong	Armstrong world Industries
138	Grass paver	Unistone	Unistone
		Ultra	Ultra Ltd.
139	FRP Door Frames shutter	Meena fibre glass	Meena fibre glass
		Duroplast	Duroplast Extrusion pvt Ltd.
		Cactus	Cactus
		Polyline	Polyline
140	Non metallic floor surface hardness	Ironite	Ironite
		Hardonite	Hardonite
		Fosroc	Fosroc India
		Sika	Sika India
		BASF	BASF India Ltd

Signature of contractor

		CICo	CICO Technologies ltd
		Pidilite	Pidilite Industries ltd
141	PU Enamel Metalic Paints on MS Structure & Epoxy paints (Premium Quality)	SKK	SKK ltd
		Akzonobel	Akzonobel
		Asian paints	Asian paints
		Berger	Berger paints India Ltd.
		MRF	MRF paints
142	Rockwood/Glass wood insulation	Twiga fiber	Twiga fiber glass ltd
		Liyod Insulation	Liyod Insulation ltd.
		Supreme	Supreme Industries ltd.
143	Actativ polypropylene	STP	Shalimar tar products
		Ferrous crete	Ferrous Crete (India) Pvt Ltd

	(APP) Modified water proof membrane	Bitumat Co Ltd	Bitumat Co Ltd
		Pidilite	Pidilite industries
		Ardex endure	Ardex endure
		Hydrotech ltd	Hydrotech ltd
144	Structural Glazing	Modi	Modi Guard
		Saint gobain	Saint gobain glass India Ltd
		Asahi	Asahi India glass ltd
		glaverbel	Glaverbel India
145	Sensor based Auto flush systems	AOS System	AOS System
		TOTO	TOTO ltd.
		Parryware	Parryware Sanitary ware
		Hindware	HSIL Ltd
		Grohe	Grohe
		Jaquar	Jaquar Group
		Kochier	Kochier
146	Float Valve (Ball valve)	Prayag	Prayag Polymers Pvt Ltd.
		Leader	Leader valve Ltd
		Zoloto	Zoloto industries
		IBP	IBP industries
		Arco	Arco valve Pvt ltd

147	Spider patch fittings for structural glazing	Dorma	Dormakaba
		Sevax	Saint Gobain Glass India Ltd
		Kich	Kich india
		Ozone	Ozone Ltd.
		hafele	Hafele Ltd.
148	Multy walled polycarbonate roofing sheets	Danapalon	Danapal Light architecture
		Lexan GE	GE lexan
149	Adhesive for AAC Block/Tiles	Ultra tech	Ultra tech cement ltd
		Ardex Endura/Gold star	Ardex Endura
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd
150	Aluminium framework	MFE (MIVAN)	(MIVAN)
		S-form	S-form
		MFS	MFS
151	EPDM water proofing Membrane	Smart care	Asian paints
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd
		Pidilite	Pidilite Industries
		STP	Shalimar tar products
		Fosroc	Fosroc India
152	PU Coating (UV resistant Liquid Applied coating)	Smart care	Asian paints
		Pidilite	Pidilite industries
		BASF	BASF

		Fosroc	Fosroc India
		SIKA	SIKA India
153	Polyurea Ultra	Smart care	Asian paints
		Ferrous	Ferrous Crete (India) Pvt Ltd
		BASF	BASF
		SIKA	SIKA India
		pidilite	Pidilite Industries
154	Modular kitchen/ wardrobes/Hardwa	Sleek	Asian Paints
		Godrej	Godrej & Boyce co

	re and Accessories	Spacewood	Spacewood
		Evoke	Evoke
155	High end exterior Texture	Allura/ Graniza range	Asian paints
		SKK Brand	SKK Ltd
			Berger paints India ltd
156	Acrylic exterior Texture	Asian paints	Asian paints
		Berger	Berger paints India ltd
		Akzonobel	Akzonobel
		Ebco	Ebco
		Nerola	Nerolac paints Ltd.
157	Puff insulations	Smart care	Asian paints
		Liyod Insulation	Liyod Insulation (India) ltd
		Fosroc	Fosroc
		BASF	BASF
		Pidilite	Pidilite Industries ltd
		Supreme	Supreme ltd
158	Water proofing materials	Ferrous crete	Ferrous Crete (India) Pvt Ltd
		Asian paints	Smart care SC GP grout grey
		BASF	BASF
		Pidilite	Pidilite Industries
		Care	Care
		SIKA	SIKA India
159	Galvolume sheet for roofing, cladding, sandwich panel	Llyod metal craft	Llyod Insulation
		Tata Blue Scope	Tata Blue Scope
		Bhushan	Bhushan steel
		JSW	JSW
		Essar	Essar Group
160	Mechanical coupler for reinforcement	Dextra	Dextra India Pvt Ltd.
		Sanfield	Sanfield India Ltd.
161	Aluminium	Hynadecor	Hynadecor

DECLARATION

**CIVIL WORKS FOR STRUCTURAL REPAIR AND RENOVATION OF ELURU MAIN BRANCH BUILDING,
ANDHRA PRADESH**

I/We have inspected the work site of Eluru Main Branch Building, NR Peta, Eluru, Andhra Pradesh and I/We have made me/ us fully acquainted with the local conditions in and around the sites of works, aware that work spot is running branch/new premises and Lay out drawings of works, drawings of each item etc. complete.

I/We hereby declare that I/ We have carefully gone through the conditions laid down in the Notice Inviting Tender, General notes, General Conditions of Contract, Special conditions, Schedule of approximate quantities and rates, Form of Agreement, General Specification, Approved manufacturers/ natural source of materials (i.e. all parts of Technical bid), Technical Specifications of schedule of quantities (i.e. all parts of Price bid), and clearly understood all the same and on the basis of the same I/ We have quoted our rates in the Schedule of Quantities/BOQ attached with the tender documents.

We accept all the terms and conditions of tender documents. We will abide by the technical specification mentioned in the tender. We hereby undertake to use only specified material/ make as per the tender schedule.

I/ We hereby declare that, in particular during execution of all works at site; it will be my/ our sole responsibility to strictly adhere to/ meticulously follow the General Specification, Approved manufacturers/ natural source of materials, Technical Specifications of schedule of quantities, all drawings of layout and items.

For any type of deviation (to any of above or subsequent instructions), it will be my/ our responsibility to obtain the written instruction of the Engineer-in-charge for the same failing which it shall be deemed that I have carried out any such deviations at my own and I shall be duty bound to replace the all deviated material/ works from the site at my/ our cost as well as I shall be liable to be penalized by the employer as deemed fit and for all such losses made thereof, I/ we shall not have any right to arbitrate in any manner.

I/ We hereby declare that I/ We shall obtain necessary drawings of items from employer in time and also shall uniformly maintain such progress as may be directed by the employer to ensure completion of same within the target date/ time as mentioned in the tender document.

Date:

Signature and seal of Contractor/ Tenderer

Witness:

1.

2.

NOTE

ANY CLARIFICATIONS SOUGHT AFTER OPENING OF THE TENDERS WILL NOT BE ENTERTAINED AT ANY COST.

Signature of contractor