



CENTRAL PUBLIC WORKS DEPARTMENT

NIT No. 17/EE/C3D/2026-27/CHENNAI/R1

Name of work: Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai. SH: Painting works to electrical upgraded quarters, Replacing Damaged wall tiles and floor tiles etc.,

INDEX

Sl No	DETAILS	Pages
1.	Index	1
2.	N.I.T	3
3.	PART-A	4
4.	Notice Inviting E- Tenders	5
5.	Information and Instructions for Contractors for e-Tendering	6
6.	List of documents to be submitted by the Bidders	9
7.	Format for Receipt of Original EMD - Annexure – I	10
8.	Undertaking regarding obtaining GST registration Certificate - Annexure – II	11
9.	Notarized Affidavit of 'Non-black listing' by CPWD / State / Central Government Departments / PSU / Autonomous bodies - Form 'A' - Annexure – III	12
10.	Affidavit - Annexure – IV (For and to Undertake to keep the validity of the bank guarantee intact)	13
11.	Undertaking on structural stability and soundness of already completed buildings and infrastructure projects - Annexure – V	14
12.	CPWD -6 for e tendering	15
13.	Percentage Rate Tender & Contract For Work Including (Cpwd-7)	22
14.	Proforma Schedules	24
15.	TABLE-I Equipment's for Testing of Materials & Concrete at Site Laboratory	31
16.	TABLE-II PLANT AND EQUIPMENT REQUIRED TO BE OWNED / TAKEN ON LEASE BY THE CONTRACTOR	33
17.	Form of Bank Guarantee for EMD/PG/SD	34
18.	PART-B	36
19.	General Conditions	37
20.	Special Conditions	41

21	Additional Conditions	45
22	Additional Specifications	47
23	Condition For Cement & Steel To Be Brought By The Contractor	65
24	List of Approved Make of Materials	69
25	Annexure-VI Guarantee bond for Removal of Defects in Aluminium work	98
26	Annexure-VII for Guarantee Bond for Removal of defects in water proofing works	99
27	Annexure-VIII Guarantee bond for removal of defects Acrylic Paint work	100
28	Schedule Of Quantities for items	101
29	Proforma for quoting the rates	106

Certified that the NIT contains **106 pages** only.

NIT approved for Rs.25,84,105/-

Executive Engineer
C-3D, CPWD, Chennai



भारत सरकार
GOVERNMENT OF INDIA
केंद्रीय लोक निर्माण विभाग
CENTRAL PUBLIC WORKS DEPARTMENT

N.I.T

NIT No. 17/EE/C3D/2026-27/CHENNAI/R1

Name of work: Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai. SH: Painting works to electrical upgraded quarters, Replacing Damaged wall tiles and floor tiles etc.,

Estimated Cost: Rs. 25,84,105/-

Earnest Money: Rs. 51,682/-

Performance Guarantee : 5% of Tendered Value.

Security Deposit : 2.5% of Tendered Value.

Period of Completion : 240 Days

This NIT amounting to Rs. 25,84,105/- (Rupees Twenty-Five Lakhs Eighty-Four Thousand One Hundred and Five Only) is hereby approved.

Executive Engineer,
C-3D, CPWD, Chennai.

PART-A

NOTICE INVITING e- TENDERS

The Executive Engineer, Chennai 3 Division Central P.W.D., Chennai invites on behalf of President of India, Online Percentage Rate tender from the CPWD enlisted contractors of appropriate class for the following work(s).

NIT No. 17/EE/C3D/2026-27/CHENNAI/R1

Name of work: Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai. SH: Painting works to electrical upgraded quarters, Replacing Damaged wall tiles and floor tiles etc.,

Estimated Cost: Rs.25,84,105/-

Earnest Money: Rs.51,682/-

Period of Completion: 240 Days

Last time and date of submission of Bid on (20.08.2026) 17:00 hrs

The Tender forms and other details can be obtained from the Web Site through <https://etender.cpwd.gov.in>. After issue of Letter of Commencement, status of the tender will be updated both on <https://etender.cpwd.gov.in> and www.eprocure.gov.in

**Executive Engineer,
C3D, CPWD, Chennai.**

**INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR
e- TENDERING FORMING PART OF BID DOCUMENT
(Application for inviting open Bids)**

The Executive Engineer, Chennai 3 Division Central P.W.D., Chennai invites on behalf of President of India, on line Percentage rate tender from the CPWD enlisted contractors of appropriate class for the following work(s).

Sl. no	NIT No	Name of work & Location	Estimated cost put to bid (Rs.)	Earnest Money (Rs.)	Stipulated Period of completion of work	Last date and time of submission of bid online	Time and date of opening of bid
1	2	3	4	5	6	7	9
1	17/EE/C3D/2026-27/CHENNAI/R1	Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai. SH: Painting works to electrical upgraded quarters, Replacing Damaged wall tiles and floor tiles etc.,	Rs.25,84,105/-	Rs.51,682/-	240 Days	(20.08.2026) 17:00 hrs	(20.08.2026) 17:30 hrs

INSTRUCTIONS TO CONTRACTORS

1. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
2. Information and Instructions for bidders posted on website shall form part of bid document.
3. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <https://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost.
4. But the bid can only be submitted after deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned documents such as Insurance Surety Bonds, Account Payee Demand draft or Bankers Cheque or Fixed Deposit Receipts or/ and Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank towards EMD in favour of Executive Engineer as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/ AE), CPWD and other documents as specified. **In Case if the EMD is drawn in the form of FDR, Insurance Surety Bonds, Bank Guarantee the EMD shall be drawn in favour of EE/ CCD V, CPWD, Chennai-90. In case if EMD is drawn in the form of Treasury challan/Demand Draft/Pay Order or banker's cheque/Deposit at call Receipt the same to be drawn in favour of EE/ CCD I, CPWD, Chennai-6**
5. Those contractors not registered or have not updated their profile on the website mentioned above, are required to get registered / update their profile beforehand. The necessary training materials including the videos with step to step process are available on download section of <https://etender.cpwd.gov.in>.
6. The intending bidder must have valid class-III digital signature certificate with encryption key (combo type) to perform any operations/transactions on the e-tendering portal / website and the bidder should download and install the eMSigner on their system as per instructions available on download section of <https://etender.cpwd.gov.in>.
7. On opening date, the contractor can login and see the bid opening process. After opening of bids, he will receive the competitor bid sheets.
8. Contractor can upload documents in the form of **JPG** format and **PDF** format.
9. Contractor must ensure to quote rate in the prescribed column(s) meant for quoting rate in figures appears in yellow colour and the moment rate is entered, it turns sky blue.
In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).
However, If a bidder quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest bidder.
- a) All necessary licenses such as labour license, EPFO and ESI, BOCW welfare registration etc., shall be taken by contractor within the time limits as prescribed under **Clause 1** of schedule 'F'.

- b) If any information furnished by the applicant is found incorrect at a later stage, he shall be liable to be debarred from tendering/taking up of works in CPWD. The department reserves the right to verify the particulars furnished by the applicant independently.
- c) Any dispute arising out of this tender including dispute related to encashment of any Bank Guarantee/ FDR etc., shall be subject to the jurisdiction of courts of Chennai only.
- d) GST and Labour Cess etc., or any other tax applicable in respect of this contract shall be payable by the Contractor and Government will not entertain any claim whatsoever in respect of the same. However 2% (TWO PERCENT) of the (Gross Bill Amount/1.18) will be deducted at source, towards GST, from each Running Account and Final Bill paid to the contractor by the Executive Engineer, Chennai 3 Division, Chennai as per the section 51 of the GST Act 2017.

List of Documents to be submitted by the Bidders in various forms to be scanned and uploaded in JPG format or PDF format within the period of Tender submission:**

1.	Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by a Commercial Bank against EMD
2.	Copy of receipt for deposition of Original EMD issued from the division office of any Executive Engineer, Central PWD, including NIT issuing EE along with Office Stamp in Annexure-I
3.	Enlistment Order of the Contractor in Category and valid on the date of opening of tender. Enlistment order issued by enlistment authority, with validity duly extended, in favor of the CPWD contractor shall only be considered.
4.	GST registration certificate, if already obtained by the bidder. If the bidder has not obtained GST registration as applicable, then he shall scan & upload following undertaking along with bid documents. "If work is awarded to me, I / we shall obtain GST registration certificate as applicable, within one month from date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, falling which I / we shall be responsible for any delay in payments which will be due towards me / us on account of work executed and/or any action taken by CPWD or GST department in this regard." Annexure-II
5.	Notarized Affidavit of 'Non-black listing' and "Non-Suspension of Business" by CPWD/State/Central departments/PSU/Autonomous bodies - Form 'A' in Annexure-III
6.	Form 'F' Undertaking on structural stability and soundness of already completed buildings and infrastructure projects – As prescribed in Annexure - V
7.	Certificate issued through LMS (Learning Management System) in ERP after completing compulsory ERP training to the contractor or his authorized representative through any of the CPWD/RTI at Delhi, Mumbai, Chennai and Kolkata, NCA Ghaziabad as per circular No.DG/Enlist.Rules.2023/07 Issued by the Authority of Director General, CPWD, Dated: 12.01.2024.
8.	Any other Document as specified elsewhere in the press notice and NIT as mandatory. `

(B) Document to be submitted after acceptance of Bid

i)	Copy of applicable licenses/registration Certificates or proof of applying for obtaining labour licenses, Registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. if applicable, and also ensure the compliance of afore said provisions by the sub-contractors /Associated Contractors, if any engaged by the contractor for the said work and Programme Chart (Time and Progress)
ii)	AFFIDAVIT - Form 'C' Annexure-IV (Undertaking to keep the validity of the bank guarantee intact)
iii)	Willingness Certificate from concerned competent electrical contractor having Valid Electrical License issued by Electrical Licensing Authority for carrying out electrical portion of works, if the bidder himself is not a registered electrical contractor or not having valid electrical License
iv)	Willingness Certificate from concerned competent Horticultural contractor having Valid Registration.

****However, the successful L1 bidder has to submit the original hardcopy of the above uploaded documents to the Engineer-in-Charge for the purpose of verification within seven days.**

ANNEXURE-I**Information and instructions for tender inviting authority for e-tendering**

- (i) The EE/Engineer in Charge/DDH of any divisions/projects of CPWD or any other officer designated by CPWD Directorate from time to time, are authorized to receive the EMDs. These authorities should receive the original EMD for their tenders or tenders of any other division/projects.
- (ii) The NIT approving authority/ Tender inviting authority at the time of issue of NIT also fills and upload the following prescribed format of receipt of deposition of original EMD along with NIT:-

Receipt of Deposition of Original EMD

(Receipt No..... / date.....)
Name of Work: Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai. SH: Painting works to electrical upgraded quarters, Replacing Damaged wall tiles and floor tiles etc., NIT No. 17/EE/C3D/2026-27/CHENNAI/R1 1. Estimated Cost: Rs.25,84,105/- 2. Amount of Earnest Money Deposit: Rs.51,682/- 3. Last date of submission of bid : 20.08.2026 / 17:00 hrs (***To be filled by Tender inviting authority/NIT approving authority at the time of issue of NIT and uploaded along with NIT)
1. Name of Contractor 2. Form of EMD..... 3. Amount of Earnest Money Deposit..... 4. Date of submission of EMD..... 5. Email ID of EMD receiving officer..... 6. Office Phone number..... Signature, Name and Designation of EMD receiving officer along with Office stamp (# To be filled by EMD receiving EE/DDH)

- (iii) The Authority receiving EMD in original form examines the EMD deposited by the bidder and issues Receipt of deposition of earnest money to the agency in a given format uploaded by tender inviting authority. The receipt can also be issued by any subordinate gazetted authority as authorized by the EE/ Engineer in Charge/DDH.
- (iv) The authority receiving original EMD also intimates tender inviting authority about deposition of EMD by the agency by email/fax/telephonically.
- (v) The original EMD receiving authority releases the EMD to unsuccessful bidders after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier, after verification from the e-tendering portal website (<https://etender.cpwd.gov.in> >closedTender>all) that the particular contractor is not L-1 bidder and work is awarded.

ANNEXURE-II**Undertaking regarding obtaining GST registration Certificate of
The State, in which work is to be taken up**

Name of Work: Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai. SH:
Painting works to electrical upgraded quarters, Replacing Damaged wall tiles
and floor tiles etc.,

NIT No: 17/EE/C3D/2026-27/CHENNAI/R1

If work is awarded to me, I/we shall obtain GST registration Certificate of the State, in which work is to be taken up within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by CPWD or GST department in this regard.

NOTE: Affidavit to be furnished on a 'Non-Judicial' stamp paper worth Rs.100/-

Signature of Notary with seal

Signature of Bidder(s) or an authorized Officer of the firm with stamp

ANNEXURE-III**FORM 'A'**
AFFIDAVIT

Notarized Affidavit of 'Non-black listing' and "Non Suspension of Business" by CPWD/State/Central Departments/PSUs/Autonomous bodies

Name of Work: Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai. SH: Painting works to electrical upgraded quarters, Replacing Damaged wall tiles and floor tiles etc.,

NIT No: 17/EE/C3D/2026-27/CHENNAI/R1

I/we undertake and confirm that our firm/partnership firm has neither been blacklisted nor been suspended for doing business by any state/Central Departments/PSUs/Autonomous bodies during the last 7 years of its operations. Further that, if such information comes to the notice of the department then I/we shall be debarred for bidding in CPWD in future forever. Also, if such information comes to the notice of department on any day before date of start of work, the Engineer-in-charge shall be free to cancel the agreement and to forfeit the entire amount of Earnest Money Deposit/ Performance Guarantee **(Scanned copy of this notarized affidavit to be uploaded at the time of submission of bid).**

NOTE: Affidavit to be furnished on a 'Non-Judicial' stamp paper worth Rs.100/-

**Signature of Bidder(s) or an authorized
Officer of the firm with stamp**

Signature of Notary with seal

ANNEXURE-IVAFFIDAVITUndertake to keep the validity of the bank guarantee intact

Name of Work: Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai. SH: Painting works to electrical upgraded quarters, Replacing Damaged wall tiles and floor tiles etc.,

NIT No: 17/EE/C3D/2026-27/CHENNAI/R1

I/We have submitted a bank guarantee for the work _____ (Name of work) Agreement No. _____ Dated _____ from _____ (Name of the Bank with full address) to the Executive Engineer_____ with a view (Name of the Division) **to seek exemption from payment of performance guarantee in cash. This Bank guarantee expires on _____** I / We undertake to keep the validity of the bank guarantee intact by getting it extended from time to time at my / our own initiative upto a period of _____ months after the recorded date of completion of the work or as directed by the Engineer in charge.

I / We also indemnify the Government against any losses arising out of no encasement of the bank guarantee if any.

(Deponent)
Signature of Contractor

Note: The affidavit is to be given by the Executants before a first-class Magistrate

Annexure-V

*Latest issued as per DG/SOP 2022/15 dtd 20.06.2023,
File No. CSQ/CM/16(1)/2023 e-file No. 9151860*

Form 'F'

**Undertaking on structural stability and soundness of already completed buildings and
infrastructure projects.**

**Name of Work: Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai.
SH: Painting works to electrical upgraded quarters, Replacing Damaged wall
tiles and floor tiles etc.,**

NIT No: 17/EE/C3D/2026-27/CHENNAI/R1

I/ We undertake and confirm that any building/infrastructure constructed by our firm/ partnership firm/ company has not suffered any failure, making it unfit for intended use, either due to structural design and defects or due to use of sub-standard materials or execution of sub-standard work, poor workmanship or any other reason during the last 25 (twenty-five) years.

I/ We, further, undertake that if such information comes to the notice of CPWD, then Engineer-in-Charge shall be free to terminate the bid/agreement and to forfeit the entire amount of earnest money deposit, performance guarantee and security deposits.

I/ We, also undertake that in addition to above, the Engineer-in-Charge shall be free to debar us forever from tendering in CPWD.

The decision of Engineer-in-Charge or any higher authority shall be final and binding.

Signature of notary with seal Signature of bidder or an authorized person of the firm with
stamp

Note: Affidavit to be furnished on a 'Non-judicial' stamp paper of Rs. 200/- (scanned copy of the notarized affidavit to be uploaded at the time of submission of bid).

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
CPWD-6 FOR E-TENDERING**

The Executive Engineer, Chennai 3 Division Central P.W.D., Chennai invites on behalf of President of India, on **“Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai. SH: Painting works to electrical upgraded quarters, Replacing Damaged wall tiles and floor tiles etc.,”** The enlistment of the contractors should be valid on the last date of submission of bids. In case the last date of submission of bid is extended, the enlistment of Contractor should be valid on the original date of submission of bids.

- 1.1. The work is estimated to cost of **Rs.25,84,105/-**-This estimate cost, however, is given merely as a rough guide.
- 1.1.1. The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids.
For composite bid, besides indicating the combined estimated cost put to tender should clearly indicates the estimated cost of each component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.
- 1.2 Intending bidders is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:-
- 1.2.1 ~~Conditions for Non-CPWD registered contractors only, if bids are also open to non-CPWD contractors.~~

~~For works estimated cost upto tendering limit of class 1 Buildings & Roads (erstwhile Composite/Building/Infrastructure) category Contractor (However, for Horticulture discipline, it may be modified as per bidding limit of CPWD class I contractors of respective discipline as the case may be)~~

- i) ~~Three similar works each of value not less than Rs. or two similar work each of value not less than Rs. or one similar work of value not less than Rs. (all figures rounded to nearest convenient figure) in last 7 years ending last day of the month previous to the one in which tenders are invited.~~
- ii) ~~For EPC tender under Mode I/II only (Applicable for CPWD enlisted contractors of appropriate class also.
One completed work costing not less than Rs.executed with the structural system technology as proposed by bidder in the letter of transmittal during the last 7 years ending last day of the month previous to the one in which tenders are invited. This work can be part of eligible work at 1.2.1 i) above or as a separate work~~

Note:-

~~For works costing above tendering limit of class II Buildings & Roads (erstwhile Composite/Building/Infrastructure) category contractors but upto tendering limit of Clause I Buildings & Roads (erstwhile Composite/Building/Infrastructure) category Contractor (However, for Horticulture discipline, it may be modified as per bidding limit of CPWD class II and CPWD Class I contractors respectively of respective discipline as the case may be) when bids are open to non-CPWD contractors also, then class II contractors of CPWD registered shall also be eligible if they satisfy the eligibility criteria specified in 1.2.1 above.~~

- 1.2.2 ~~Criteria of eligibility for CPWD as well as non-CPWD contractors,
For works estimated to cost above the tendering limit of class 1 (Super) Buildings & Roads (erstwhile Composite/Building/Infrastructure) category Contractor (However for Horticulture~~

discipline, it may be modified as per bidding limit of CPWD class I contractors of respective discipline as the case may be.)

- i) ~~Three similar works each of value not less than Rs. or two similar work each of value not less than Rs.....or one similar work of value not less of value not less than Rs.....or one similar work of value not less Rs. (all figures rounded to nearest convenient figure) in last 7 years ending last day of the month previous to the one in which tenders are invited.~~
- ii) ~~For EPC tender under Mode I/II only (Applicable for CPWD enlisted contractors of appropriate class also.
One completed work costing not less than Rs.executed with the structural system technology as proposed by bidder in the letter of transmittal during the last 7 years ending last day of the month previous to the one in which tenders are invited. This work can be part of eligible work at 1.2.2 i) above or as a separate work~~

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the last date of submission of bid. This is applicable for 1.2.1 as well as 1.2.2 (Para 1.2.1 i) and 1.2.2 i) are not applicable for CPWD enlisted contractors of appropriate class)

To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under:-

I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in CPWD in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer in Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee. (Scanned copy to be uploaded at the time of submission of bid)

- 1.2.3** ~~When bids are invited from non CPWD contractors and CPWD class II contractors as per provisions of clause 1.2.1 above, it will be mandatory for non CPWD contractors and CPWD class II contractors to upload the work experience certificate(s) and the affidavit as per the provisions of clause 1.2.2.~~

But for such bids, Class I contractors of CPWD are eligible to submit the bids without submission of work experience certificate and affidavit. Therefore, CPWD class I contractors shall upload two separate letters for experience certificate and affidavit that these documents are not required to be submitted by them. Uploading of these two letters is mandatory otherwise system will not clear mandatory fields.

- 2 Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7 (or other Standard Form as mentioned) which is available as a Government of India Publication and also available on website www.cpwd.gov.in. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of agreement.
- 3 The time allowed for carrying out the work will be **240 Days from** the date of start as defined in Schedule "F" or from the first date of handing over the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.
- 4 (i) The site for the work is available.

OR

~~The site for the work shall be made available in phased manner. After completion of the work in the site in hand the site for the next phase shall be made available.~~

- (ii) The architectural drawings for the work are available.

OR

The architectural drawings shall be made available to the contractor after award of the work while awarding the work.

- 5 The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract 2023 for construction works Form can be seen on website <https://etender.cpwd.gov.in> or www.cpwd.gov.in free of cost.
- 6 After submission of the bid the contractor can re-submit revised bid any number of times but before last date and time of submission of bid as notified.
- 7 While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last date and time of submission of bid as notified.
- ~~8 When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.~~
- 9 Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or bank Guarantee (for balance amount as prescribed) from any of the Commercial banks (drawn in favour of **Executive Engineer, Chennai 1 Division, CPWD, Chennai-6**) shall be scanned and uploaded to the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT. **In Case if the EMD is drawn in the form of FDR, Insurance Surety Bonds, Bank Guarantee the EMD shall be drawn in favour of EE/ CCD V, CPWD, Chennai-90. Incase if EMD is drawn in the form of Treasury challan/Demand Draft/Pay Order or banker's cheque/Deposit at call Receipt the same to be drawn in favour of EE/ CCD I, CPWD, Chennai-6**

A part of earnest money is acceptable in the form of Bank Guarantee of any Commercial Bank having validity for six months or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders. In such cases 50% of earnest money or Rs. 20 lakh whichever is less, will have to be deposited in shape prescribed above and balance can be accepted in form of Bank Guarantee issued by a Commercial Bank.

The earnest money given by all the tenderers except the lowest tenderer shall be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier. However, in case of two/ three bid system, earnest money deposit of bidders unsuccessful during technical bid evaluation etc. should be returned within 30 days of declaration of result of technical bid evaluation.

Copy of Enlistment Order and certificate of work experience and other documents as specified in the press notice shall be scanned and uploaded to the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest bidder along with physical EMD of the scanned copy of EMD uploaded within a week physically in the office of tender opening authority. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose original EMD deposited with any division of CPWD and other documents scanned and uploaded are found in order.

The bid submitted shall be opened at 17:30 hrs on 20.08.2026

10. The bid submitted shall become invalid and e-Tender processing fee (if applicable) shall not be refunded if:

- i) The bidder is found ineligible.
- ii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.
- iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.
- iv) If a bidder quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in Percentage Rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

11. The contractor whose bid is accepted will be required to furnish performance guarantee of **5% (Five Percent)** of the tendered amount within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No., if applicable and also ensure the compliance of aforesaid provisions by the sub-contractors, if any engaged by the contractor for the said work within the period specified in Schedule F.

12. **The description of the work is as follows:** Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any

condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.

14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
17. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
18. The bids for the work shall remain open for acceptance for a period of **30 (Thirty) days** from the date of opening of bids in case of single bid system ~~and 75 (Seventy five) days from the date of opening of technical bids in case bids are invited in 2 or 3 bid system.~~

Further

- (i) If any bidder withdraws his bids or makes any modifications in the terms & condition of the bid which are not acceptable to the department within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - (ii) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of submission of bids, then the Government shall without prejudice to any other right of remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - (iii) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.
19. This notice inviting Bid shall form a part of the contract document. The successful bidder/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
- (a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - (b) Standard C.P.W.D. Form 7 or other Standard C.P.W.D. Form as applicable.

20. For Composite Bids

- ~~20.1.1 The Executive Engineer in charge of the major component will call bids for the Composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid.~~
- ~~20.1.2 The bid document will include following three components:~~
- ~~**Part A:** CPWD 6, CPWD 7 including Schedule A to F for the major component of the work, Standard General Conditions of Contract 2023 for Construction Works as amended/ modified upto date.~~
- ~~**Part B:** General / Specific Conditions, Specifications and Schedule of Quantities applicable to major component of the work.~~
- ~~**Part C:** Schedule A to F for minor Component of the work (competent authority under Clause 2 and Clause 5 shall be same authority as mentioned in Schedule A to F for major Components), General/Specific Conditions, Specifications and Schedule of Quantities applicable to minor Component(s) of the work.~~
- ~~**Part D:** Schedule of Quantities for Civil Work (Major Component) and Schedule of Quantities for Electrical works (Minor Component), Schedule of Quantities for Horticulture Works.~~
- ~~20.1.3 The Bidders must associate himself, with agencies as per NIT Conditions.~~
- ~~20.1.4 The Eligible bidders shall quote rates for all items of major component as well as for all items of minor components of work~~
- ~~20.1.5 After acceptance of the bid by competent authority, the EE in charge of major component of the work shall issue letter of award on behalf of the President of India. After the work is awarded, the main contractor will have to enter into one agreement with EE in charge of major component and has also to sign two or more copies of agreement depending upon number of EE's/DDH in charge of minor components. One such signed set of agreement shall be handed over to EE/DDH in charge of minor component(s). EE of major component will operate **Part A** and **Part B** of the agreement. EE/DDH in charge of minor component(s) shall operate **Part C** along with **Part A** of the agreement.~~
- ~~20.1.6 Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.~~
- ~~20.1.7 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.~~
- ~~20.1.8 The main contractor has to associate agencies for specialized component(s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer in charge of relevant component(s) within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer in charge of relevant component(s).~~
- ~~20.1.9 In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer in charge of relevant specialized component(s).~~
- ~~The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer in charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.~~
- ~~20.1.10 The main contractor has to enter into MoU with agency(s) associated by him. Copy of such MoU shall be submitted to EE/ DDH in charge of each relevant component as well as to EE in charge of major component. In case of change of associate contractor, the main agency(s) has to enter into MoU/agreement with the new contractor associated by him.~~
- ~~20.1.11 Running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor components shall be made by the Engineer in charge of the discipline of minor component directly to the main contractor.~~

~~20.1.12A. The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer in charge of major component after record of completion certificate of all other components.~~

~~20.1.12B. Final bill of whole work shall be finalized and paid by the EE of major component.~~

~~Engineer(s) in charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract.~~

~~21 The contractor shall download the Integrity Pact, which is a part of tender documents, affix his signature in the presence of a witness, and upload the same while submitting online bids for all works of estimated cost put to tender equal or more than the threshold value given in Schedule F. In the event of his failure to sign and upload the Integrity Pact along with other bid documents, his bid shall be rejected.~~

22 The intending bidders are required to update their profile in CPWD e-tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile / uploading tender can be resolved through the concerned Executive Engineer/ Assistant Engineer (Ph. No. 044 2916022. email id: eeccd5.tn@nic.in) or email id: cpwd.support@techmahindra.com. The e-tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.

Executive Engineer

CPWD - 7

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

STATE : Tamil Nadu

ZONE : CE(Chennai)

BRANCH : B & R

DIVISION : C 3 D

SUB- DIVISION : CSD 3/3D

PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

Tender for the work of : Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai. SH: Painting works to electrical upgraded quarters, Replacing Damaged wall tiles and floor tiles etc.,

- (i) Last date and time of submission of e-tenders shall be on **(20.08.2026) 17:00 hrs.**
- (ii) To be opened in presence of tenderers who may be present at on **(20.08.2026) 17:30 hrs** in the office of **Executive Engineer, C 3 D, CPWD, Chennai-90.**

TENDER

I/We have read and examined the notice inviting tender, schedule, A,B,C,D,E & F, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the President of India within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for (30) Thirty days from the due date its opening **in case of single bid system** and not to make any modifications in its terms and conditions.

I/We have deposited EMD for the prescribed amount in the office of concerned Executive Engineer As per the bid document.

A sum of **Rs.51,682/-** is hereby forwarded in cash / receipt treasury challan/deposit at call receipt of a scheduled bank/fixed deposit receipt of schedule bank / demand draft of a scheduled bank / bank guarantee issued by a scheduled bank as earnest money.

A copy of earnest money deposit receipt of prescribed amount deposited in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed issued by a Commercial bank, is scanned and uploaded (strike out as the case may be).If I/We, fail to furnish the prescribed performance Performance Guarantee within prescribed period, I/We agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents

upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form.

Further I/We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

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

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

Dated.....

Signature of contractor

Postal Address

Witness :

Address:

Occupation:

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the President of India for a sum of **Rs. -----/- (Rupees ----- only)**.

The letters referred to below shall form part of this contract Agreement:-

- i)
- ii)
- iii)

For & on behalf of the President of India.

Signatures.....

Dated.....

Designation.....

PROFORMA OF SCHEDULES

(FOR CIVIL)

SCHEDULE 'A'

Schedule of quantities (as per form PWD-3) ----- Schedule of quantities Attached

SCHEDULE 'D'

Extra schedule for specific requirements / document for the work, if any.

1. General and Special Conditions & Particular Specifications (Civil works)

SCHEDULE 'E'

Reference to
General Conditions of Contract:**General Conditions of Contract
2023 for Maintenance
works as modified and
corrected upto previous
day of submission
of Tender**Name of work: -. **Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai.
SH: Painting works to electrical upgraded quarters, Replacing Damaged wall tiles and floor
tiles etc.,****Estimated cost of work****(i)** Civil Components : **Rs.25,84,105/-**

(i)	Performance Guarantee :	5% of tendered value
(ii)	Security Deposit :	2.5% of tendered value

SCHEDULE 'F' :

GENERAL RULES & DIRECTIONS

Officer inviting tenderExecutive Engineer,
Chennai 3 Division, Central
Public Works Department,
Besant Nagar, Rajaji Bhawan,
Chennai-600090.**Definitions:**

2(vi)	Engineer-in-Charge (i) Civil work	Executive Engineer, Chennai 3 Division, CPWD, Chennai-600090 or his successors thereof
2(viii)	Accepting Authority	Chief Engineer, Chennai, CPWD or his successor thereof
2(x)	Percentage on cost of materials and Labour to cover all overheads and profits	15%

Addition: Correction: NIL Overwriting: Deletion: NIL AE (P)**EE**

2(x)(b)	Standard Schedule of Rates (i) Civil work	DSR' 2023 with amendments up to date of submission of bid.
2(xi)	Department	Central Public works Department (CPWD)
9(ii)	Standard CPWD Contract Form GCC 2023, CPWD form 7/8 as modified and corrected upto	CPWD Form 7 & GCC 2023 for Maintenance works as modified and corrected up to previous day of submission of Tender.

Clause 1

(i)	Time allowed for submission of Performance Guarantee, programme chart (Time and Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying there of from the date of issue of letter of acceptance.	7 (Seven) days
(ii)	Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above.....	3 (Three) days with late fee @ 0.1% per day of the PG amount (not refundable)

Clause 2

Authority for fixing compensation under clause 2	Chief Engineer, Chennai, CPWD, or his successor thereof.
--	--

Clause 2A Not Applicable**Clause 5**

Mile stone(s) as per table given below :-

Sl. No.	Description of Mile stone(Physical)	Time allowed (From date of start)	Amount to be withheld in case of Non-achievement of mile stone
Not Applicable			

Authority to decide:

(i)	Authority to convey the decision of shifting of shifting of milestone and extension of time :-	Executive Engineer, Chennai 3 Division, CPWD, Chennai-600090 (Engineer -in- Charge of Major component).
------------	--	---

(ii)	Authority to decide rescheduling of mile stones and extension of time :- a) Civil Work	a) Chief Engineer, Chennai, CPWD or his successor thereof
(iii)	Shifting of date of start in case of delay in handing over of site :-	Chief Engineer, Chennai, CPWD or his successor thereof

Clause 5 Schedule of handing over of site :

Proforma of schedules Clause 5 Schedule of handing over of site

Part	Portion of site	Description	Time Period for handing over reckoned from date of issue of letter of intent
Part A	Portion without any hindrance	Full area	10 days
Part B	Portions with encumbrances	NIL	Not Applicable
Part C	Portions dependent on work of other agencies	NIL	Not Applicable

Clause 5/Clause 5A:

Clause 5 Applicable

Clause 6

Computerized Measure Book (CMB) /
Electronic Measurement Book (EMB)
through ERP portal

: Electronic Measurement Book (EMB)
through ERP portal

Clause 7

Gross work to be done together with net payment / adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment	Rs. 10 Lakhs for Civil works or part thereof as per discretion of Engineer-in-charge.
--	--

Clause 7A

Whether Clause 7A shall be applicable	Yes
---------------------------------------	-----

No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in Charge.

Clause 10A

List of testing equipment to be provided
by the contractor at site lab :

as per [TABLE-1]

Clause 10C

- Applicable

Component of labour expressed as Percentage of value of work	25%
--	-----

Clause 10CC

- Not Applicable

Clause 11

Specifications to be followed for execution of work	Civil work: CPWD Specifications 2019 volume- I & II with correction slips up to the last date of submission/uploading of tender.
---	--

Type of work: -

Maintenance Work

Clause 12: Deviation in Completion Cost: The completion cost shall, in no case exceed, 1.5 times the contract amount (as per DG/CON/ Maintenance 2023/03 dtd. 18.12.2023)

Clause :12.3 All the deviated quantities shall be paid at agreement rates.

Clause16	Competent Authority for Deciding reduced rates:	
	For Civil items of work	Chief Engineer, Chennai, CPWD, or his success or thereof
Clause18	List of mandatory machinery, tools & plants to be deployed by the contractor site: -	As per (Table-II)
Clause19C	Authority to decide penalty for each default:	Executive Engineer, Chennai 3 Division, CPWD, Chennai

Clause19D	Authority to decide penalty for each default:	Rs.10,000 (for each default)
Clause19G	Authority to decide penalty for each default:	Penalty: Rs.1,000/- per day for each Enhanced Penalty: Rs.5000/- per day for each repetitive default The Maximum ceiling of penalty including enhanced penalty is 5% of ECPT
Clause19K	Authority to decide penalty for each default:	The agency shall arrange on site training per NSDC norms for atleast 20% of Unskilled workers engaged in the project co-ordination with CPWD RTI & NSDC certification at level of skilled/ semi skilled tradesman. Penalty for default Rs.250/- per tradesman per day.

Clause 25

I.	Conciliator	:	The Special Director General, CPWD, Chennai
----	-------------	---	---

II.	Arbitrator Appointing Authority	:	Chief Engineer, Chennai CPWD or his successor there of
III.	Place of Arbitration	:	Chennai, Tamil Nādu

Clause 32:- Requirement of Technical Representative(s) and Recovery Rate

Sl.No	Minimum Qualification of Technical Representative	Discipline	Designation(Principal Technical/ Technical rep resentative)	Minimum Experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause	
						Figures	Words
1	Graduate Engineer or Diploma Engineer	1 of Major Component	Project Manager cum Planning /quality / site Engineer/ billing.	2 or 5 Years Respectively	1 of the Major components	Rs. 15,000/- per Month per person	Rupees Fifteen thousand per Month per person

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

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

Clause 38

(i)	(a)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates	DSR 2023 with up to date correction slips.
(ii)		Variations permissible on theoretical quantities:	
	(a)	Cement	
		For works with estimated cost put to tender not more than Rs. 25 lakh	3% plus/minus
		For works with estimated cost put to tender more than Rs. 25 lakh	2% plus / minus
	(b)	Bitumen for all works	2.5% plus only and nil on minus side.
	(c)	Steel Reinforcement and structural steel sections for each diameter, section and category	2% plus/ minus
	(d)	All other materials	Nil

Notice for appointment of Arbitrator

To
The Chief Engineer, Chennai.

.....

Subject: Notice for appointment of Arbitrator for adjudication of disputes relating to agreement Number.....

Dear Sir,

In terms of **clause 25 (Arbitration Clause)** of the aforesaid agreement, particulars of which are given below, I/we hereby give you notice to appoint an arbitrator for adjudication of disputes mentioned below:

1. Name of applicant
2. Whether applicant is Individual/Prop. Firm/Partnership Firm/Ltd. Co.
3. Full address of the applicant
4. Name of the work and contract number in which arbitration sought
5. Name of the Division which entered into contract
6. Contract amount
7. Date of contract
8. Stipulated date of start of work
9. Stipulated date of completion of work
10. Actual date of completion of work (if completed)
11. Total number of claims made
12. Total amount claimed
13. Date of intimation of final bill (if work is completed)
14. Date of payment of final bill (if work is completed)
15. Amount of final bill (if work is completed)
16. Date of reference made to SDG/ADG for conciliation, if applicable:
17. Date of termination of conciliation proceedings:
18. I/We hereby give consent for appointment of Arbitrator of MoHUA Waiver agreement as per Appendix -XIX is enclosed

Or

I/We do not give consent for appointment of Arbitrator of MoHUA.

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

I/We enclose following documents.

1. Statement of claims with amount of claims.
2. * Agreement of Waiver of Section 12(5) of the Arbitration and Conciliation Act. 1996 in Appendix-XIX
(Strikeout if not applicable)

Yours faithfully,

(Signature of
the applicant)
(only the person/authority who signed the
contract should sign here)

Copy to:

1. The Executive Engineer, C3D,CPWD,Rajaji Bhawan,Chennai-90.

APPENDIX-XIX

Agreement towards waiver of Section 12(5) of Arbitration & Conciliation Act 1996

1. Whereas certain disputes have arisen between M/s (Claimants)
and M/s (Respondents) relating to agreement No.....
2. And whereas the parties are aware that Shri..... is on the cadre of CPWD, presently on deputation as Arbitrator, Ministry of Housing and Urban Affairs, Government of India.
3. I/We agree for the appointment of Shri as the sole Arbitrator for adjudication of the disputes, and we hereby waive the applicability of Section 12(5) of the Arbitration & Conciliation Act, 1996.

(Signature)
**(Only the person/authority
who signed the contract
should sign here)**

Name
.....

Date

(The name of the Arbitrator, Ministry of Housing and Urban Affairs, Government of India or the may be enquired form the Engineer-in-charge, if required).

(TABLE-I)

Equipment's for Testing of Materials & Concrete at Site Laboratory

All necessary equipment for conducting all necessary tests shall be provided at the site in the well-furnished site laboratory of minimum size 50 feet X 15 feet by the contractor at his own cost. The following minimum laboratory equipment's shall be set up at site office laboratory: -

Sl. No.	Equipment	Numbers (Minimum)
1.	Weighing scale platform type 100 Kg capacity	1
2.	Graduated glass measuring cylinder	As per requirement
3.	Sets of sieves of 450mm internal dia for coarse aggregate [100mm, 80mm, 40mm; 20mm; 12.5mm, 10mm; 4.75mm complete with lid and pan]	1
4.	Sets of sieves of 200mm internal dia for fine aggregate [4.75mm; 2.36mm; 1.18mm; 600 microns; 300 microns & 150 micron, with lid and pan]	1
5.	Sieve Brushes and sieve shaker capable of 200mm and 300mm dia sieves, manually operated with timing switch	1 Each
6.	Cube moulds size 70mmx70mmx70mm	6
7.	Cube moulds size 150mmx150mmx150mm	12
8.	Electronic balance 600gx0.1g., 10kg and 50 kg	1
9.	Physical balance weight up to 5 kg	1
10.	Measuring jars 100ml, 200ml, 500ml	1Nos each size
11.	Gauging trowels 100mm & 200mm with wooden Handle	4 Nos.
12.	Spatula 100mm & 200mm with long blade wooden Handle	6
13.	Vernier calipers 12" & 6" size	1each
14.	Digital PH meter least count 0.01mm	1each
15.	GI tray 600x450x50mm, 450x300x40mm, 300x250x40mm	1Nos each
16.	Electric Motor mixer 0.25 cum capacity	1
17.	Screw gauge 0.1mm-10mm, least count 0.05	1
18.	Water testing kit	3
19.	Mortar Cube vibrator	1
20.	Iron Weight of 5 kg, 2 kg, 1 kg, 500 gm, 200 gm, 100 gm	1each
21.	Measuring cylinder TPX or Poly propylene capacity 100 ml, 500 ml, 250 ml, 100 ml	1each
22.	Hammer 1lb & 2lb	1each
23.	Rubber Hammer	2
24.	Hacksaw with 6 blades	2
25.	Measuring tape 2 mtr	3

26.	Depth gauge 20cm	3
27.	Shovels& Spade	3
28.	Plastic or G.I. Buckets 15 ltr, 10 ltr, 5 ltr	3each
29.	Wheel Barrow	3
30.	Floor Brushes, hair dusters, scrappers, wire brush, paint brushes, shutter steel plat oil, kerosene with stove etc.	6each
31.	Any other equipment for site tests as outlined in BIS codes and as directed by the Engineer-in-charge.	

(TABLE-II)

PLANT AND EQUIPMENT REQUIRED TO BE OWNED / TAKEN ON LEASE BY THE CONTRACTOR

Sl. No.	Equipment	Numbers (Minimum)
1.	Excavator cum loader (JCB 3D model or	1
2.	Compressor machine minimum 200 CFM with rock Breaker.	1
3.	Needle Vibrators.	As per requirement
4.	Screed leveller.	1
5	Dumper/Tipper	1
6.	Tractor with trolley.	1
7.	Welding machine 400 Ampere	1
8.	Centrifugal mono block water pump minimum	1
9.	Drilling machine	As per requirement
10	Floor grinding/polishing machines	1Nos.
11.	Granite cutting machine	1Nos.
12.	Ceramic tile cutting machine	1Nos.
13.	Granite polishing machine	1Nos.
14.	Granite hand polishing machine	2 Nos.
15.	Computer for CPWD Sewa	5Nos.
16.	Any other machinery required for completion of the	As per Actual requirement

Note: The above list is only indicative and not exhaustive. The contractor may be required to deploy more T&P as per requirement of work.

On Non-judicial stamp paper of minimum Rs. 100/-
(Guarantee offered by Bank to CPWD in connection with the execution of contracts)
FORM OF BANK GUARANTEE FOR EARNEST MONEY DEPOSIT/PERFORMANCE
GUARANTEE/ SECURITY DEPOSIT/ MOBILIZATION ADVANCE

Whereas the **Executive Engineer, Chennai 3 Division, CPWD, Chennai- 90** on behalf of the President of India (hereinafter called "The Government") has invited bids under .(NIT No. **17/EE/C3D/2026-27/CHENNAI/R1**)...... dated for." **Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai. SH: Painting works to electrical upgraded quarters, Replacing Damaged wall tiles and floor tiles etc.,**" The Government has further agreed to accept irrevocable Bank Guarantee for Rs. (Rupees only) valid upto..... (date)*.....as **Earnest Money Deposit** from (name and address of contractor)(hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR**

Whereas the **Executive Engineer, Chennai 3Division, CPWD, Chennai- 90** on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing number with(name and address of the contractor).....(hereinafter called "the Contractor") for execution of work "**Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai. SH: Painting works to electrical upgraded quarters, Replacing Damaged wall tiles and floor tiles etc.,**" The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. (Rupees only) valid upto.....(date).....as **PerformanceGuarantee/security Deposit/Mobilization Advance** from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.

1. We, (indicate the name of the bank)..... (herein after referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs.,.....,..... (Rupees only) on demand by the Government within 10 days of the demand.
2. We, (indicate the name of the Bank) do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupeesonly)
3. We, (indicate the name of the Bank) , further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the contractor shall have no claim against us for making such payment.
4. We, (indicate the name of the Bank) further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be

relieved from our liability by reason of any such variation or extension being granted to the said contractor or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

5. We, (indicate the name of the Bank) further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the contractor and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.
7. We,..... (indicate the name of the Bank)....., undertake not to revoke this guarantee except with the consent of the Government in writing.
8. This Bank Guarantee shall be valid up to.....unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs.....(Rupees.....only)and unless a claim writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date.....

Witnesses:

- | | |
|-------------------|----------------------|
| 1. Signature..... | Authorized signatory |
| Name and address | Name |
| | Designation |
| | Staff code no. |
| | Bank seal |
| | |
| 2. Signature..... | |
| Name and address | |

*Date to be worked out on the basis of validity period of 240 Days where only financial bids are invited and 240 Days for two/three bid system from the date of submission of tender'

**In paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for earnest money or for performance guarantee/security deposit/mobilization advance, as the case may be

PART-B
GENERAL CONDITONS,
SPECIAL CONDITIONS,
ADDITIONAL CONDITIONS
AND
ADDITIONAL SPECIFICATION (CIVIL)

General Conditions

1. Contractor is advised to visit the site before quoting the rates to get acquainted with the area, services, installations, condition of buildings and overall scope of the work.
2. The installation, services, buildings and equipment mentioned in the tender document shall be handed over on, ' as is where is basis 'and nothing extra shall be paid toward pre-maintenance as they are in running condition.
3. After the expiry of the contract, the firm shall have to hand over complete installation to the department in proper working order. All defect and deficiencies shall have to be rectified by the firm to the entire satisfaction of Engineer-in- charge failing which the work shall be got do neat the risk and cost of the firm.
4. Unless otherwise specified, the agreement rates for all items of work of the schedule of quantities are for all heights, depths, leads and lifts involved in the execution of work.
5. No advance payment will be made to the contractor. Running payment shall be made on the basis of services rendered by the contractor as per the terms and conditions of contract.
6. No T & P will be issued to the contractor.
7. The contractor shall make his own arrangements for obtaining electric connection for carrying out any work from TNEB and make necessary payment directly to the TNEB. In the absence of electric connection or failure of power supply, the contractor shall make hisown arrangement of silent type generators.
8. Contractor may note the provision of General condition of contract 2023 clause 6 where computerized measurement & bill is only acceptable. No other form of bill shall be acceptable. GST/Income Tax/other taxes as applicable shall be recovered from the contractor's bill.
9. One percent 1% water charges shall be deducted from the gross amount of the each running bill and final bill of civil (including housekeeping), If water supplied by CPWD/Client Department.
10. The contractor or his staff should not remove; disturb/dislocate the existing equipment and its parts from its position until and unless it is authorized by the Engineer-in-charge. The entire installation should be intact at any time of inspection & as handed over to him atthe time of initial taking over for its maintenance & operation. Care should also be taken to prevent damage or theft.
11. The contractor shall employ qualified/ trained persons for operation/maintenance of the equipment's & shall system be fully responsible to obtain such licenses for taking up the above work as prescribed by the State/Local bodies/ CPWD both for execution & operating staff. He shall also responsible for any periodic statutory inspection to be carried out on the equipment's payment of fees, rectification of defects pointed out duringsuch inspection etc. A failure to comply with this clause by the contractor will render him liable for payment of all penalties imposed by the state/local bodies & the inspection and / of subsequent rectification will be carried out by the department at his risk & cost besides recovering the penalty amounts imposed by the state/local bodies.

12. The Contractor shall employ their regular staff in the works and related names of employees shall have to be given by the contractor.
13. The contractor will have to arrange all registers/stationery etc. These registers will be issued by Engineer-in-charge duly marked in chronological order. Nothing extra shall be paid on this account.
14. When a register is filled up completely, it will be handed over to the concerned J.E. It will not be returned to the contractor and the same will become the property of the department.
15. The contractor will have to arrange all the required Computer, furniture etc. in fulfilling his obligations of the contract at his own cost and will take them back only after the expiry of the contract for which nothing extra shall be paid.
16. The Engineers and Supervisor shall carry mobile telephone(s) to enable the Engineer-in-charge to have easy and quick communication. Nothing extra shall be paid to the contractor on this account and his quoted rates for various items under this contract will be inclusive of this obligation.
17. Police verification of regular staff deployed by the contractor shall be got done by the contractor compulsorily and a copy of police verification shall be provided to Engineer-in-Charge after which an identity card duly countersigned by Engineer-in-Charge or his representative shall be issued to each employee of the contractor for proper identification. The contractor shall provide uniform along with Badge and shoes within 15 days of start of work. All the employees and workers engaged by the contractor shall necessarily wear neat and clean uniform, name badges and Identity Cards
18. The contractor should have Employee's Provident Fund (EPF) Registration ESIC facility, documentary proof regarding the ESIC should be produced to the department.
19. In case of any accident during the operation / Maintenance of the equipment leading to injuries/damages to human being equipment or loss of life, the contractor shall be fully responsible for settling all claims & indemnify the department against any claims arising out of such accidents.
20. Staff employed by the contractor should be well behaved, Polite & courteous. Any complaint against staff on behavior should be taken very seriously and such staff should be removed by the contractor immediately from the site and arrange replacement. If replacement is not done then for the same the Engineer-in-Charge shall make recovery as under;
21. The labour employed by the firm shall be their own employees. Any labour claims such as their permanency etc. raised by the workers engaged for this work is to be settled by the contractor itself and department shall not be responsible for the same. In case of any accident or fatal cases the department is not held responsible for the same. The contractor should have proper insurance for the workers against such exigencies.
22. Safety of the staff employed will be the responsibility of the contractor. CPWD will not be responsible for any mishap, injury/accident or death of the staff. No. claim in this regard shall be entertained/ accepted by the department. In case of any non-fulfilment of obligation, necessary recovery shall be made from his bill / security deposit / performance guarantee. The contractor shall take all precautions to avoid

accidents by exhibiting caution boards, red flags, red lights and providing necessary barriers and all other measures required from time to time. The contractor shall be responsible for all damages and accidents due to negligence on his part.

23. No claims of the labours shall be entertained by the Department including that of providing employment, regularization of services etc.
24. Any prevailing taxes, duties, levies imposed by the Central /State government shall be inclusive in the rates Any new taxes shall be governed as per clause 33 of GCC for CPWD work, 2023 with up-to-date correction slip.
25. The contractor shall comply with proper and legal orders and directions of the local or public authority or Municipality and abide by their rules and regulations and pay all fees and charges of which he may be liable.
26. In case any major defects or abnormalities found in the system during checking it should be informed to the Engineer-in-Charge
27. **The dismantled materials after replacement of new one should be returned to the department.**
28. This contract includes the emergency services whenever required after contract time; no extra charge will be made for that.
29. The contractor will carry out preventive maintenance / Checks as per CPWD Specifications/ respective standard trade practice and as per details attached. The result of such tests will be recorded in proforma as decided by the Engineer-in-charge.
30. The contractor shall arrange to render efficient service as outlined above. However, in case he fails to maintain the service to the satisfaction of the Engineer-in-charge and the department has to incur any expenditure to maintain the installation by alternate arrangement, the expenditure thus incurred will be recovered from the contractor, for which Engineer-in-charge decision shall be final.
31. The department reserves the right to terminate this contract, at any time if the performance of the contractor is found unsatisfactory.
32. The contractor shall give due notices to Municipality, Police and/ or other authorities under intimation to the Engineer in Charge that may be required under the law/ rules under force and obtain all requisite licenses for temporary obstructions/ enclosures and pay all charges which may be liveable on account of his execution of the work under the agreement. Nothing extra shall be payable on this account.
33. Other agencies working at site will also simultaneously execute the work entrusted to them and the contractor shall offer necessary co-operation wherever required to other agencies.
34. On account of security consideration, there could be some restrictions on the working hours, movement of vehicles for transportation of materials. The contractor shall be bound to follow all such restrictions and adjust the programme for execution accordingly.
35. The work shall be carried out in a manner complying in all respects with the requirements of relevant bye laws of the local bodies, labour laws, minimum wages act, workmen compensation act and other statutory laws enacted by Central Govt. as well

as State Govt.

36. No accommodation shall be provided to any of the staff engaged by the contractor. The contractor shall also not be allowed to erect any temporary set up for staff in the campus.
37. Contractor shall be fully responsible for any damages caused to govt. property by his or his labour in carrying out the work and shall be rectified by the contractor at his own cost. The contractor shall maintain sufficient quantity of materials and spares at site to meet the requirement of attending the complaints as per direction of the Engineer-in-charge.
38. Chases, holes & drilling works etc. shall be done using power operated tools.
39. No work shall be carried out in any Buildings / Office Rooms without the approval of the representative of the Engineer-in-charge. Any work carried out without the approval of the representative of the Engineer-in-charge at the site of work shall be rejected and shall not be measured and paid for.
40. The contractor shall if required furnish the manufacturer's certificate that the material supplied satisfy the requirements of the relevant specifications.
41. The Engineer-in-Charge shall be at liberty to take respective sample(s) of each item of SCHEDULE OF QUANTITIES in any approved laboratory as decided by him. The sample for testing shall be provided by the contractor. All expenditure required to be incurred for taking sample, conveyance and packing & testing charges etc. shall be borne by the contractor himself. In case any sample particular lot fails in testing the contractor shall be bound to replace the entire lot with fresh material of prescribed specification and the rejected lot shall be returned to the contractor only after fresh lot is supplied. Testing charges in respect of failed sample will be borne by the contractor himself.
42. Rejected materials shall have to be removed by the contractor at his own cost immediately of the instructions of doing so.
43. In case of any dispute regarding rejection of quality of materials the decision of the Engineer-in-Charge shall be final and binding upon the contractor.
44. Royalty octroi terminal, GST tax etc. at applicable rates shall have to be paid by the contractor himself and the rates quoted by him shall include these duties and nothing extra on, this account shall be payable.
45. All dismantled fittings, fixtures and other materials shall be handed over to Engineer-in-Charge. Else recovery will be made twice the market rate of such items. It is the responsibility of the agency to hand over properly and JE/AE to take into MAS scrupulously. During bill JE/AE shall certify that all the dismantled materials are taken into account.
46. The tenderer has to pay the minimum wages as prescribed by the Ministry of Labour on employment time to time irrespective of the quoted rate for persons engaged on each category. Necessary entries in this regard shall be maintained. Nothing extra shall be claimed on the account.
47. **Testing Charges to be borne by contractor. All expenditure to be incurred for testing of samples e.g. packaging, sealing, transportation, loading, unloading etc, including testing charges shall be borne by the contractor. Testing shall be done as per approved laboratories for testing as approved by SDG**

SPECIAL CONDITIONS

1. Before tendering, the contractor shall inspect the site of work and shall fully acquaint himself about the conditions prevailing at site, availability of materials, availability of land and suitable location for construction of godowns, stores and camp, transport facilities, the extent of lead and lifts involved in the work (over the entire duration of contract) including local conditions, as required for satisfactory execution of the work and nothing extra whatsoever shall be paid on this account.
2. The contractor shall at his own expense and risk arrange land for accommodation of labour, setting up of office, the storage of materials, erection of temporary workshops, and construction of approach roads to the site of the work including land required for carrying out of all jobs connected with the completion of the work. However, the departmental land, to the extent available may be allowed to be used for the purpose free of rent without accepting any responsibility for the delay, if any, on this account. The contractor shall have to abide by the regulations of the authorities concerned and the directions of the Engineer-in-charge for the use of the land available at the site of work. If during construction it becomes necessary to remove or shift the stored materials shed workshop, access roads, etc. to facilitate execution of any other work by any other agency, the contractor shall do as directed by the Engineer-in-charge and no claim whatsoever, shall be entertained on this account.
3. It shall be deemed that the contractor shall satisfied himself as to the nature and location of the work, transport facilities, availability of land for setting up of camp etc. The department will bear no responsibility for lack of such knowledge and the consequences thereof.
4. The contractor shall have to make approaches to the site, if so required and keep them in good condition for transportation of labour and materials as well as inspection of works by the Engineer-in-charge. Nothing extra shall be paid on this account.
5. The contractor shall be responsible for the true and proper setting out of the work in coordination with the Engineer-in-charge or his authorized representatives and for the correctness of the positions, levels, dimensions and alignments of all parts of the structure and for the provisions of all necessary instruments appliances and labour in connection therewith. If at any time, during the progress of work, any error appears or arises in the position, levels, dimensions or alignment of any part of the work, the contractor on being asked to do so by the Engineer-in-charge, shall rectify such error to the entire satisfaction of Engineer-in-charge. The checking by the Engineer-in-charge or his authorized representative shall not relieve the contractor of his responsibility for the correctness of any setting out of any line or level. The contractor shall carefully protect and preserve all bench marks pegs and pillars provided for the setting out of works.
6. All setting out activities concerning establishment of benchmarks, theodolite stations centre line pillars etc. including all materials, tools, plants, equipments, theodolite and all other instruments, labour etc. required for performing all the functions necessary and ancillary thereto at the commencement of the work, during the progress of the work and till the completion of the work shall be carried out by the contractor and nothing extra shall be paid on this account.
7. The contractor shall at his own cost submit samples of all materials sufficiently in advance and obtain approval of the Engineer-in-charge. Subsequently, the materials to be used in the actual execution of the work shall strictly conform to the quality of samples approved by the Engineer-in-charge and nothing extra shall be paid on this account. The acceptance of any sample or material on inspection shall not be a bar to its subsequent rejection, if found defective.

8. The contractor shall at his cost, make all arrangements and shall provide necessary facilities as the Engineer-in-charge may require for collecting, preparing, packing forwarding and transportation of the required number of samples for tests & for analysis at such time and to such places as directed by the Engineer-in-charge, and bear all charges **including sample testing charges shall be borne by the contractor.**
9. The necessary tests shall be conducted in the laboratory approved by the Engineer-in-charge. The samples for carrying out all or any of the tests shall be collected by the Engineer-in-charge or on his behalf by any other officer of CPWD. The contractor or his authorized representative shall associate himself in collection, preparation, packing and forwarding of such samples for the prescribed tests and analysis. In case he or his authorized representative is not present or does not associate himself, the results of such tests and consequences thereon shall be binding on the contractor.
10. Materials used on work without prior inspection and testing (where testing is necessary) and without approval of Engineer-in-charge are liable to be considered unauthorized, defective and not acceptable. The Engineer-in-charge shall have full powers to require removal of any or all of the materials brought to site by contractor which are not in accordance with the contract, specifications or do not conform in character or quality to the samples approved by the Engineer-in-charge. In case of default on the part of the contractor in removing rejected materials, the Engineer-in-charge shall be at liberty to have them removed at the risk and cost of the contractor.
11. The contractor shall make his own arrangement for the water required for execution of work and get the water tested at his own cost with regard to its suitability for use in the works and get written approval from the Engineer-in-charge before he proceeds with the use of same for execution of work. Nothing extra shall be paid to the contractor on this account.
12. The work shall be carried out in such a manner so as not to interfere/or effect or disturb other works being executed by other agencies, if any.
13. Any damages done by the contractor to any existing work or work being executed by other agencies shall be made good by him at his own cost.
14. The work shall be carried out in the manner complying in all respects with the requirement of relevant rules and regulations of the local bodies under the jurisdiction of which the work is to be executed and nothing extra shall be paid on this account.
15. For completing the work in time, the contractor might be required to work in two or more shifts and no claims whatsoever shall be entertained on this account, notwithstanding the fact that the contractor will have to pay to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour regulations and the agreement entered upon and/or extra amount for any other reasons.
16. There is no electric power supply at the site of work. The contractor will have to make his own arrangement for obtaining electric connection from the state electricity board and make necessary payments directly to the department concerned and/or install generators at the site of work, if required and nothing extra whatsoever will be payable on this account.
17. The drawings for the work attached in the document relating to this contract and all other drawings that will be issued by the Engineer-in-charge during the execution of work shall at all times be properly correlated before executing any work and no claim whatsoever shall be entertained on this account.
18. The contractor shall maintain in good condition all work executed till the completion of the entire work entrusted to the contractor under this contract and nothing extra shall be paid on this account.

19. No payment will be made to the contractor for damage caused by rain, floods and other natural calamities whatsoever during the execution of the works and any damage to the work on this account shall have to be made good by the contractor at his own cost and nothing whatsoever shall be paid on this account.
20. The rates for all items of work, unless clearly specified otherwise, shall include the cost of all labour materials, de-watering and other inputs involved in the execution of the items.
21. Unless otherwise provided in the schedule of quantities or CPWD specifications the rates tendered by the contractor shall be all-inclusive and shall apply to all heights, depths, leads and lifts.
22. No claim whatsoever for idle labour, additional establishments, costs of hire and labour charges for tools and plants etc. would be entertained under any circumstances.
23. For the safety of all labour directly or indirectly employed in the work for the performance of the contractor's part of this agreement, the contractor shall, in addition to the provisions of CPWD safety code and directions of the Engineer-in-charge make all arrangements to provide facility as per the provisions of Indian Standard Specifications (Codes) listed below and nothing extra shall be paid on this account.
 1. IS 3696 Part I Safety Code for scaffolds and ladders
 2. IS 3696 Part II Safety Code for scaffolds and ladders Part II ladders
 3. IS 764 Safety Code for excavation work
 4. IS 4111 Safety Code for Blasting and Drilling operations,
 5. IS 4138 Safety Code for working in compressed air.
 6. IS 7293 Safety Code for working with construction machinery
 7. IS 7969 Safety Code for storage and handling of building materials
24. The contractor shall take all precautions to avoid all accidents by exhibiting necessary caution boards and by providing red flags, red lights and barriers. The contractor shall be responsible for any accident at the site of work and consequences thereof.
25. Royalty at the prevalent rates and all other incidental expenditure shall have to be paid by the contractor, on all the boulders, metal single, earth, aggregates, sand, bajri, Brick bats etc. collected by him for the execution of the work direct to the concerned Revenue Authority of the State or Central Government and the amount paid shall not be reimbursed in any form whatsoever.
26. In case of specifications the following hierarchy will be followed:
 - (1) Nomenclature of the item.
 - (2) Additional Specifications, particular specifications, special/additional condition if any as defined in the contract documents.
 - (3) Drawings
 - (4) CPWD Specification.
 - (5) BIS Specification (Latest version) if CPWD specification not available.
 - (6) Manufacturers specifications if BIS specification not available.
 - (7) If none of the above is available decision of Engineer-in-Charge will be Final.
27. All Stone aggregates, sand, stone dust, etc shall be obtained only from the quarry or other source approved by the Engineer in charge before they are actually procured and used in the work. The rate for the items mentioned in the schedule of quantities includes all charges and nothing-extra payable on any account.

28. The additional specifications given below are not substitute to C P W D specifications or I S specifications. These shall be read along with C P W D specifications or I S specifications.
- The work shall be carried out using metric dimensions only and shall be measured and paid in metric dimensions. FPS units, if any, mentioned in drawings etc are for guidance only.
- Wherever any reference to any Indian Standard Specification occurs in the documents relating to this contract the same shall be inclusive of all amendments issued there to or revision there of if any, up to the date of receipt of tenders.
- Unless otherwise specified in the schedule of quantities the rate for the items of the work shall be considered, as inclusive of pumping out or bailing out water, if required, for which no extra payments will be made. This will include water encountered from any source, such as rains, floods, sub-soil water table being high or due to any other cause whatsoever.
- The tenderer shall study the item description, the relevant drawings and satisfy himself the item of work to be carried.
- The contractor shall produce the copy of the current validity of the BIS certification of the agency from whom materials was procured by the contractor. BIS marked materials shall also be got tested. The materials and the quantity for which tests to be conducted shall be decided by the Engineer-in-charge.
- The rate shall be for all heights and locations and shall include all material, labour etc unless specified in the item description.
29. **Labour cess 1.00% and Water Charges 1.00% shall** be deducted at source from the Gross value of the work done (which includes the stipulated materials) which shall not be reimbursed.
30. The rate for providing and fixing water supply and sanitary fittings, the rate is inclusive of cost of removing the existing damaged ones, unless otherwise specified separately.
31. For the item of providing and laying granite / vitrified tile flooring, the rate quoted shall be inclusive of protective coat of plaster of paris of required thickness, if necessary.
32. The rate quoted for tile flooring is inclusive of any hacking of base slab for better bonding of cement mortar as directed by the Engineer-in-Charge.
33. **The Agency has to order & bring the vitrified tile in One Lot under one Batch in order to avoid difference in shades.**

ADDITIONAL CONDITIONS

1. The contractor shall make his own arrangements for obtaining electric connections if required and make necessary payments directly to the department concerned.
2. Other agencies doing works related with this project will also simultaneously execute the works and the contractor shall afford necessary facilities for the same. The contractor shall leave such necessary holes, openings etc. for laying/burying in the work of pipes, cables, conduits, clamps, boxes and hooks for fan clamps etc. as may be required for other agencies. Conduits for electrical wiring/cables will be laid in a way that they leave enough space for concreting and do not adversely affect the structural members. Nothing extra over the agreement rates shall be paid for the same.
3. Some restrictions may be imposed by the security staff etc., on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restrictions/instructions and nothing extra shall be payable on this account.
4. The building work will be carried out in the manner complying in all respects with the requirements of relevant byelaws of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-Charge and nothing extra will be paid on this account.
5. The work of water supply, internal sanitary installations and drainage work etc. shall be carried out as per local Municipal Corporation or such local body-byelaws and the contractor shall produce necessary completion certificate from such authorities after completion of the work.
6. Water tanks, taps sanitary, water supply and drainage pipes, fittings and accessories should conform to byelaws and specifications of the Municipal Body/Corporation where C P W D specifications are not available. The contractor should engage licensed plumbers for the work and get the materials (fixtures/ fittings) tested by the Municipal Body/Corporation authorities wherever required at his own cost.
7. The contractor shall comply with proper and legal orders and directions of the local or public authority or municipality and abide by their rules and regulations and pay all fees and charge, which he may be liable.
8. The contractor shall give a performance test of the entire installation(s) as per standing specifications before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test.
9. Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been in built in the items and nothing extra should be payable (or) extra cement considered in consumption on this account.
10. The structural and Architectural drawings shall at all times be properly correlated before executing any work. However, in case of any discrepancy in the item given in the schedule of quantities appended with the tender and Architectural drawings relating to the relevant item, the former shall prevail unless and otherwise given in writing by the Engineer-in-charge.

11. The contractor shall take instructions from the Engineer-in-Charge for stacking of materials in any place. No excavated earth or building material shall be stacked on areas where other buildings, roads, services compound walls are to be constructed.
12. If as per Municipal / Local body rules the huts for labour are not be erected at the site of work by the contractors, the contractors are required to provide such accommodation as is acceptable to local bodies and nothing extra shall be paid on this account.
13. Royalty at the prevalent rates shall have to be paid by the contractor on all the boulders, metals, shingle sand and bajri etc., collected by him for the execution of the work direct to the Revenue authority or authorised agent of the State Government concerned or Central Government.
14. Wherever Hindi version also exists, and if there be variations between Hindi and English version in any part of the tender documents, the English version alone shall prevail.
15. The Rate for RCC works include cost of concreting in sloped & curved roof, chajjas & beams and no extra rate shall be payable on any account.
16. The Rate for Centering & shuttering under concrete items include cost of centering and shuttering in curves & arches up to 20 degrees.
17. The Contractor should construct proper mortar bands of lean mix with adequate depth & smaller size over the curved roof for flooding with water & proper curing. In case of Arches, wet gunny bags shall be used for a period of two weeks.
18. 2% GST and 1% Labour welfare cess will be recovered on total value of work done in each bill. Goods and services Tax (GST) applicable in respect of this contract shall be payable by the contractor and Government will not entertain any claim whatsoever in respect of the same

ADDITIONAL SPECIFICATIONS

The additional specifications given below are not substitute to CPWD specifications or IS specifications. These shall be read along with CPWD specifications or I S specifications.

A. GENERAL

1. The work shall be carried out using metric dimensions only and shall be measured and paid in metric dimensions. F P S units, if any, mentioned in drawings etc are for guidance only.
2. Wherever any reference to any Indian Standard Specification occurs in the documents relating to this contract the same shall be inclusive of all amendments issued there to or revision thereof if any, up to the date of receipt of tenders.
3. Unless otherwise specified in the schedule of quantities the rates for the various items are for all heights and locations.
4. Unless otherwise specified in the schedule of quantities the rate for the items of the work shall be considered, as inclusive of pumping out or bailing out water, if required, for which no extra payments will be made. This will include water encountered from any source, such as rains, floods, sub-soil water table being high or due to any other cause whatsoever.
5. The tenderer shall study the item description, the relevant drawings and satisfy him the item of work to be carried.
6. The contractor shall produce the copy of the current validity of the BIS certification of the agency from whom materials was procured by the contractor. BIS marked materials shall also be got tested. The materials and the quantity for which tests to be conducted shall be decided by the Engineer-in-charge.

1 EARTHWORK:-

- 1.1 The work shall be done in accordance with CPWD Specifications - 2019 - Vol. I & Vol.II and National Building Code 2016 with upto date correction slips.

2 CONCRETE WORK:-

The work shall be done in accordance with CPWD Specifications - 2019 - Vol. I & Vol. II with upto date correction slips.

PLAIN CEMENT CONCRETE/LEAN CONCRETE:

Plain Cement Concrete / Lean concrete (M-10) in required thickness as per design shall be laid below all type foundation works, below kerb stone, under floors or wherever required as per CPWD Specifications- 2019 Volume - I & II with correction slips up to the last date of submission of tender documents.

3 SHUTTERING/FORM WORK:-

All the specifications for shuttering shall be as per CPWD Specifications. Centring and shuttering for all concrete and reinforced concrete wherever required shall be in steel and or BWP grade plywood treated with preservatives / Film Faced mainly used for concrete purpose to produce a smooth straight level and sharp profiles shall be used for the works for uniform finish on all exposed surfaces. Panels to be in largest practicable sizes to reduce the number of joints, Form

material shall have strength adequate to withstand pressure of newly placed concrete. However, all props, bracings, scaffolding etc., shall be in steel. The entire responsibility of planning, design, erection and safety of formwork shall lie with the Contractor.

Formwork design shall consider the following:

- a) Dimensional tolerance
- b) Demountable without shock, disturbance or damage to concrete
- c) All construction joints in beams and slabs shall be provided as shown in drawings.
- d) Ties shall be provided where required
- e) Cambers shall be provided where shown.
- f) Props / supports of extra ceiling height shall be specially designed.

1. The work shall be done in accordance with CPWD Specifications - 2019 - Vol. I & Vol. II with up to date correction slips.
2. Film coated marine plywood shuttering/ Steel shuttering as approved by the Engineer-in-Charge shall be used by the contractor.
3. Minimum size of shuttering plates shall be 600mm x 900mm except for the case when closing pieces required completing the shuttering panels. Dented, broken, cracked, twisted or rusted shuttering plates shall not be allowed to be used on the work.
4. The shuttering plates shall be cleaned properly with electrically driven sanders to remove any cement slurry or cement mortar or rust. Proper shuttering oil or deboning compound shall be applied on the surface of the shutter plates in the requisite quantity before assembly of steel reinforcement.
5. The joint filler shall be resilient closed cell expanded polyethene and non-tainting and manufactured by Supreme Industries Ltd or equivalent.
6. 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 its centering, shuttering and casting for which nothing extra shall be paid to the Contractor.
7. As per general engineering practice, level of floors in toilet / bath, balconies, corridors shall be kept 15 mm lower than corridor/ adjacent rooms/ general floors and shuttering should be adjusted accordingly and slabs should be laid with slope towards the drainage point. Nothing extra is payable on this account.

8. seismic/ separation/ expansion joints shall be provided where shown in the drawings and as per CPWD specifications and as directed by Engineer-in-Charge. They shall be constructed with a gap between the adjoining parts of the works of the width specified. The contractor shall ensure that no debris is allowed to enter and be lodged in seismic/ separation/ expansion joints.

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4 BRICK WORK:-

1. Common burnt clay F.P.S. (non modular) bricks of class designation 5.0 in foundation and plinth and superstructure in as per relevant IS codes shall be used in all items of brick work.
2. The work shall be done in accordance with CPWD specifications 2019 Volume - I & II with correction slips up to the last date of submission of tender documents.

5 WOOD WORK

- 1 The wood work in general shall be carried out as per CPWD Specifications 2019, Volume-I& II with revisions/ amendments / correction slips upto last date of bid submission (including extensions if any). In case of conflict or contradiction between detailing shown in drawings and specification mentioned herein under this subhead, the specification mentioned herein under this subhead will be followed. The detailing shown in door and window drawings are suggestive only. Before taking up any procurement/construction activity, shop drawings (for fixing of all kind of doors, showing all hardwares) shall be prepared (on the basis of specification laid herein) and submitted by contractor for obtaining approval from Engineer- in-Charge.
- 2 The samples of species of timber (1st/Second class Teak wood) to be used shall be deposited by the contractor with the Engineer-in-Charge before commencement of the work. The contractor shall produce cash vouchers and certificates from standard kiln seasoning plant operator about the timber to be used on the work having been kiln seasoned by them, failing which it would not be accepted as kiln seasoned. Specified timber shall be of good quality and well-seasoned. It shall have uniform colour, reasonably straight grains and shall be free from dead knots, cracks and sapwood.
- 3 Wood work shall not be painted, oiled or otherwise treated before it has been approved by the Engineer-in-Charge. All portion of timber including architrave abutting against masonry concrete stone or embedded in ground shall be painted with approved wood preservative or with boiling coal tar.
- 4 Transparent sheet glass conforming to IS: 2835 shall be used. Thickness being governed as under unless otherwise specified in the item in wood work/steel work:

Area of Glazing	Thickness
(a) For glazing area up to 0.50 sqm	4.0 mm
(b) For glazing area more than 0.50 sqm to 0.90 sqm	6.0 mm

6. RCC WORK:

1. The Mixing of Concrete shall be done in the mechanical mixer. Besides the mixer should also have arrangement for weighing water so that, water cement ratio can be controlled more effectively.
2. For all RCC works only factory made round type cover blocks shall be used instead of pre cast cover blocks as per 5.3.2.2 of CPWD Specification 2019. The CPWD specification stands modified to the extent.

7 STEEL WORK:-

1. Work shall be carried out as per CPWD Specifications - 2019 - Vol.I & Vol. II with upto date correction slips.
2. All welded steel work shall be tested for quality of weld as laid down in IS 822: 1970 before actual execution.

Stainless Steel works/Railing/Handrails:

Unless otherwise specified, stainless steel generally shall be of Grade (SS 316 L grade). Stainless Steel (SS) grade 316 shall be used for interior/exposed / exterior work. Lower grades shall not be used. Before taking up any procurement/construction activity, shop drawings shall be prepared and submitted for obtaining approval from Engineer-in-Charge.

The contractor shall supply all materials, labour, tools, ladders, scaffolding and other equipments necessary for the completion and protection of all stainless steel work.

Stainless steel railing shall be provided with SS 316 L grade stainless steel of 40 mm dia. of 18-gauge handrail with adequate rods parallel to handrail, balusters, flanges, end caps, newel posts with caps etc. complete as per approved drawings and direction of Engineer-in-charge.

Surface finish of all the stainless-steel materials will be in 240 grit satin finish / matt finish or as per approved architectural drawing / Engineer-in-Charge. Fixing shall be done by stainless steel expansion bolts of approved size and make as per Engineer-in-charge and welding to be done by using argon welding rods and the surface being duly finished and cleaned by K2 passivation, which is nitric acid plus fluoric acid solution treatment by which the chances of corrosion will be eliminated and any burn out makes on the metal will also be eliminated.

All stainless-steel material will have to be coated by a solution of Inox to avoid finger prints and avoidance of settlement of environment / atmospheric dust.

8 .FLOORING:

1. The Granite marble, Kota, Chittor, Jaiselmer, white sand stone and black Cuddapah or any other stones mentioned in the bid document and as directed by Engineer in Charge shall be executed as per patterns and cuttings or patterns of various combinations of marbles/granite/stones shown in the architectural drawings and or as directed by Engineer in Charge. Nothing extra shall be payable on this account.
2. Samples of flooring marbles/stones/granites shall be deposited well in advance with the Engineer in Charge for approval. Approved samples should be kept at site with the Engineer in Charge and the same shall not be removed except with the written permission of Engineer in Charge. No payment whatsoever shall be made for these samples.
3. The granite/stone/marble mentioned herein shall conform to the requirements given in CPWD specifications 2019, Volume I & II. (with up-to-date correction slips)

Marble/ Granite flooring:

These will be read in addition to the specifications of marble flooring given in CPWD specifications 2019, Volume I & II. (With upto date correction slips)

The sample shall not be of size less than 600 mm x 600 mm or as decided by the Engineer-in-charge.

The samples shall be fully supported by the details of the quarry and location.

The contractor shall use necessary pigments to match the colour of the marble with pointing/jointing. The pigments shall be got approved, from the Engineer in Charge prior to commencement of flooring item.

Samples for sand blasted granite shall be produced separately. Sand blasting shall be carried out after the selection of the basic granite sample.

The rate of items of flooring is inclusive of providing sunken flooring in bathrooms, kitchen etc. and nothing extra on this account is admissible. The Granite/marble stone flooring in treads and risers of stair case is to be laid in single piece. Nothing extra shall be paid on these accounts.

The measurement shall be made for finished work of flooring.

WATER SUPPLY AND SANITARY INSTALLATIONS:

General requirements

Sanitary fixtures shall be of the best quality and shall be of approved make and manufacture (wherever specified) as defined in the item of work or defined anywhere in this document otherwise shall be as mentioned in the CPWD specifications failing which the same shall be of ISI mark duly approved by the Engineer-in-Charge.

All fixtures and fittings shall be provided with all such accessories as are required to complete the item in working condition whether specifically mentioned or not in the Schedule of Quantities, specifications, elsewhere in this bid document & drawings. The quoted rates shall be deemed to be all inclusive for a complete item fit for use including all materials, labour, T&P, specials, equipment, testing & commissioning etc. Accessories shall include proper fixing arrangement, brackets, nuts, bolts, screws and required connection pieces. All the accessories shall be of the quality and make as per manufacturer's specifications except otherwise specified in specifications, schedule of quantities and elsewhere in this bid document. Nothing extra whatsoever shall be payable on aforesaid account.

Fixing screws shall be half round head chromium plated brass screws with C.P. washers where necessary or otherwise as provided in the item.

Porcelain sanitary ware shall be glazed vitreous china of first quality free from warps, cracks and glazing defects and shall conform to I.S. 2556-1967.

All fittings and fixtures shall be fixed in a neat workmanlike manner true to required level and heights and in accordance with the manufacturer's recommendations and directions of Engineer-in-charge. Care shall be taken to fix all inlet and outlet pipes at correct positions.

All holes or chases shall be properly made good by C.C 1:2:4 (in brick wall) or the concrete mix of RCC element as directed by the Engineer-in-Charge. Nothing extra shall be payable on this account.

Wherever M.S. clamps are required to be anchored directly to brick walls, concrete

slabs, beams, walls or columns, nothing extra shall be payable for making good the same.

The soil waste and vent pipes & its related fitting shall conform to IS 3989-84 with latest amendments.

Nothing extra for providing and fixing CP Brass caps/extension pieces wherever required for CP Brass fittings shall be paid beyond the rates payable for corresponding CP Brass fittings.

10. ALUMINIUM DOORS, WINDOWS, and VENTILATORS ETC. GLAZING SPECIFICATIONS:-

The work in general shall be executed as per the CPWD specifications supplemented by the following:-

The work shall be carried out through an approved firm, who shall furnish all materials, labour, accessories, equipment, tool and plant and incidentals required for providing and installing powder coated Aluminium doors, windows, claddings, louvers and other items as per architectural drawings.

The agency shall be got approved from Engineer in Charge before execution. The architectural drawings of the Department and these specifications cover the major requirements and are for guidance only, required fastenings, accessories, features, and all other items which are not mentioned specifically therein, but are necessary to make a complete installation shall be provided by the Contractor at his cost.

General:-

Aluminium doors, windows etc. shall be of sizes, section as per details as shown in the drawings. The details shown on the drawings indicate generally the sizes of components parts and general standards. These may be varied slightly to suit the standard adopted by the manufacture. Before proceeding with manufacturing, the contractor shall prepare and submit complete manufacturing and installation drawings for approval of the Engineer-in-Charge and no work shall be performed until the approval of these drawings is obtained.

Shop Drawings:-

The contractor shall submit the shop drawings of doors, windows, louver, cladding and other Aluminium work, to the Engineer-in-Charge for his approval. The shop drawing shall show full size and sections of doors, windows etc., thickness of metal (i.e. wall thickness) details of constructions, sub frame/rough ground profile, anchoring details hardware as well as connection of windows, doors and other metal work to adjacent work. Samples of all joints and methods of fastening and joining shall be submitted to the Engineer-in-Charge for approval well in advance of commencing the work.

Samples:-

Samples of doors, windows, louver etc. shall be fabricated, assembled and submitted to Engineer-in-Charge for his approval. They shall be of size types etc. as decided by Engineer-in-Charge. All samples shall be provided at the cost of the contractor.

Sections:-

Aluminium doors and windows shall be fabricated from extruded sections of profiles as detailed on drawings. The sections shall be extruded by the manufacturers approved by the Engineer-in-Charge. The Aluminium extruded sections shall conform to BIS designation IIE/IIV 9 WP alloy, with chemical composition and mechanical properties, strength and durability. The permissible dimensional tolerance of the extruded sections shall be such as not to impair the proper and smooth function/operation and appearance of doors and windows.

Fabrication:-

Door, windows etc. shall be fabricated to sizes in factory and shall be of section sizes, combinations and details as per architectural drawings. All doors, windows etc. shall have mechanical joints. All members shall be accurately machined and fitted to form hairline joints prior to assembly. The joints accessories such as cleats, brackets, etc. shall be of such material as not to cause any bimetallic action. The design of the joints and accessories shall be such that the accessories are fully concealed. The fabrication of door, windows etc. shall be done in suitable sections to facilitate easy transportation, handling and installation. Adequate provision shall be made in the door and window members for anchoring for support and fixing of hardware and other fixtures as approved by the Engineer-in-charge.

Anodizing (This specification is applicable to Aluminium sections anodized wherever mentioned in schedule of quantities):-

The anodizing shall be done by specialised firm who shall be got approved from the Engineer- in-charge.

The anodizing operation shall be done after cutting the members to requisite sizes before the final assembly. Aluminium sections shall be anodized as per IS: 7118-1973. Anodizing to be as per grade AC 15 and not less than 15 microns thick when measured as per IS 6012, and electro colour with colour fastness rating No. 8 of IS 1888-1882. Colour anodizing would be done only by electro colour process. No visual variation in colour shall be permitted. The bidder shall clearly indicate the shade variation tolerance as measured by standard equipment.

The anodic coating shall be properly sealed by steam or by boiling in deodorized water as per IS 1868 and or IS 6057. Sealing quality shall be tested in accordance with the relevant standards. Nothing extra shall be paid for above.

The contractor shall satisfy himself by 100% checking in the factory that the thickness of the anodic coating is found to be minimum 15 microns and sealing quality appropriate everywhere. The testing shall be done by EDDY CURRENT METHOD as per IS 6012 for thickness. If any material is found substandard, this shall be totally rejected. Requisite tests shall also be required to be carried out at site as instructed by the Engineer-in-Charge and the contractor shall arrange all the equipment required for these tests at site. Nothing extra shall be paid for above.

All anodized Aluminium works shall conform to relevant IS standards relating to materials, workmanship, fabrications, finishing, erection, installation etc. In this connection IS codes including IS 1868-1982, IS 1948-1961, IS 7118-1973, 6012-1970, IS 740-1975 are considered relevant and applicable.

A thick layer of clear transparent lacquer based on methacrylate or cellulose saturate shall be applied on the anodized sections, before they are brought at site. The lacquer shall be removed after installations are complete or as an alternative, the exposed surface of the Aluminium sections shall be provided with gummed paper tape protective. After fixing and assuring of proper functioning of doors, windows etc. such protective layer shall be cleaned out/removed. Nothing extra shall be paid for above.

Required No. of tests as per relevant I.S. Codes shall be carried out.

Protection of Finish:-

All Aluminium members shall be wrapped with approved self adhesive non-staining PVC tapes before they are brought to site. All care shall be taken to ensure surface protection during transportation, storage at site and installation. The tape protection shall be removed as installation.

Handling and Stacking:-

Fabricated material shall be protected against any damage during transportation. Loading and unloading shall be carried out with utmost care. On receipt of materials at site, they shall be carefully examined to detect any damaged pieces. Arrangements shall be made for expeditious replacement of damaged pieces, parts. Materials found to be acceptable on inspection shall be repacked in crates and stored safely.

In the case of composite windows and doors, different units are to be assembled first. The assembled composite units should be checked for line, level and plumb before final fixing is done. Units may be assembled at their final location as situation warrants.

The contractor shall be responsible for assembling composite, bedding and filling the groove with polysulphide sealant inside and outside, at transoms and mullions, placing the doors, windows etc. in their respective opening. After the door/windows have been fixed in their correct assigned position, the open hollow sections abutting masonry concrete shall be filled up with approved polysulphide densely packed and finished neat.

The contractor shall be responsible for doors, windows etc. being set straight, plumb, level and for their satisfactory operation after fixing is complete.

Installation:-

Just prior to installation, the doors, windows etc. shall be uncrated and stacked on edge on level bearers and supported evenly. The frame shall be fixed into position with hard wood backing, true to line and level using adequate number of expansion machine bolts, anchor fasteners of approved size and manufacture and in an approved manner. The holes in concrete/masonry members for housing anchor bolts shall be drilled with an electric drilling machine.

The door/windows assembled as shown on drawings shall be placed in correct final position in the opening and marks made on concrete members at jambs, sills and heads against the holes/provided in frames for anchoring. The frame shall then be removed from the opening and laid aside. Neat holes with parallel sides of appropriate size shall then be drilled in the concrete members with an electric drilling machine at the marking to house the expansion bolts. The expansion bolt shall then be inserted in the holes, struck with a light hammer till the nut is forced into the anchor shell. The frame shall then be placed in final position in the opening and anchored to the support through cadmium plated machine screws of required size threaded to expansion bolts. The frame shall be set in the opening by using wooden wedges at supports and be plumbed in position. The wedges shall invariably be placed at the meeting points of glazing bars and frame.

Fittings:

Hinges, stays, handles, tower bolts, locks and other fittings shall be stainless steel fittings conforming to the required specifications.

EPDM Gaskets:

Contractor shall provide and install EPDM gaskets of approved size and profile at all locations as shown and as required to render the doors/windows completely air tight and weather tight. The samples of EPDM gaskets/neoprene gaskets shall be got approved from Engineer in Charge before procurement.

Mastic Cement:

The gaps between frames and supports and also any gaps in the door and windows section shall be raked out as directed and filled with mastic cement of approved colour and make to ensure complete water tightness. The mastic cement shall be of such colour and composition that it would not stain the masonry/concrete work, shall receive paint without bleeding, will not sag or run and shall not set hard or dry out under any conditions of weather.

The various tests on Aluminium sections shall be conducted in accordance with the CPWD specification and the relevant IS Codes. The testing charges shall be governed by clause 15.0 of special conditions.

Acceptance Criteria

The Aluminium sections shall conform to the provisions of relevant items of work of the schedule of quantities.

Measurement: Measurements shall be as per CPWD specifications. Payment by weight shall be made for Aluminium sections including beading only. All fixing angles, fittings and fixtures such as handles etc. shall not be included in the weight to be paid. For payment purposes only actual weight of sections shall be taken into account. If however the sectional weight of any Aluminium section is higher than the permissible variation then the weight payable shall be restricted to the weight of section including permissible variation.

Rates:

The rates of item shall include the cost of materials, labour required in all the above operations.

The rates shall include the cost of hinges but shall exclude cost of fixing angles and fittings.

11. Powder coating on Aluminium sections & fittings/fixtures

Wherever specified the Aluminium sections and fittings/fixture shall be coated in approved colour and shade with pure polyester powder of Berger/Interpon/Hardcastle/Nerocoat or equivalent to a minimum thickness of 50 microns.

The pure polyester powder coating shall be got executed from specialized agency. The contractor shall submit names of at least three specialized agencies with details of their experience, capability etc. to the Engineer-in-Charge who after satisfying himself shall give the approval in writing. The work shall start only after approval of specialized agency.

The pure polyester powder shall have following properties: -

Free Flow-ability	-	Satisfactory
Particle size	:	< 100 microns suitable for Electrostatic spray.
Specific gravity	:	1.1 to 1.5 depending on the colour.
Shelf life	:	6 months.
Stoving Schedule	:	200 ⁰ C for 10 mins. (Metal temp.)

Test Certificates from approved laboratory for the representative Samples shall be submitted by the Contractor.

The curing schedule shall be as specified by the manufacturer of pure polyester powder.

The properties of cured powder films shall be:-

Scratch hardness	:	Equal to or more than 4 Kg.
Impact resistance	:	Min 150 Kg cm
Pencil hardness	:	3H to 4H
Salt spray resistance	:	500 Hrs.
Water soaks at room	:	No change after 500 Hrs. temperature
Detergent resistance	:	No attack after 500 Hrs.

Cross Hatch adhesion : GT= O (ASTM D-3359)
 Cured Film thickness : Min 75 microns.

Tests for properties of cured film as given in 4 above shall be Carried out at frequency specified in relevant BIS/BS/ASTM Codes.

The surface of Aluminium shall be prepared and pretreated as follows before powdercoating:-

Removal of all foreign matter.

Chromatisation of Aluminium surface as specified by the manufacturer of pure polyester powder by at least a five stage process consisting of alkali degrease, rinse and chromate conversion followed by two rinses. The chromate coating and alkali degrease shall be as per requirement of the pure polyester powder manufacturer

Proper curing at required temperature shall be done for specified time period so as to achieve the desired properties.

The pure polyester coated surface shall be of uniform texture, colour and gloss and shall be free from cracks, warps and other imperfections.

GUARANTEE BOND for Aluminium Works:

Two years guarantee bond in prescribed proforma attached as **Annexure I** herewith shall be submitted by the contractor which shall be signed by both the specialized agency and the contractor to meet their liability/ liabilities under the guarantee bond. However, the sole responsibility about the structural stability & aesthetics etc. shall rest with the building contractor.

5.00% (Five percent) of the cost of the Aluminium work shall be retained as security deposit and the amount so withheld would be released after two years to be reckoned from the date after the maintenance period prescribed in the contract is over., if the performance of the work done is found satisfactory. If any defect is noticed during the guarantee period, it shall be rectified by the contractor within seven days of receipt of intimation of defects in the work. If the defects pointed out are not attended to within the specified period, the same will be got done from another agency at the risk and cost of contractor.

The security deposit against this item of work shall be in addition to the security deposit mentioned elsewhere in this document.

12. WATER PROOFING:

The work in general shall be executed as per CPWD specifications: -

The water proofing compound used in integral water proofing treatment shall satisfy all the requirements indicated in IS:2645 and shall be got tested before its use. Total quantity of the water proofing compound required shall be arranged only after obtaining the prior approval of the Engineer in Charge in writing. Materials shall be kept under double lock and key and proper account of water proofing compound used in the work shall be maintained. It shall be ensured that the consumption of the compound is as per specified requirements.

The finished surface after water proofing treatment for floor in sunken portion shall have minimum slope of 1 in 48 unless otherwise decided by the Engineer in Charge. Before commencement of treatment on floor surface, it shall be ensured that the

outlet drain pipes/spouts have been fixed and the spout openings have been eased and rounded off properly for easy flow of water

Contractor shall associate himself with anyone of the specialist firms mentioned in relevant para of specifications for the work relating to any kind of Water Proofing Treatment. In case the contractor intends to get the water proofing work executed from an agency other than as specified in relevant para of the specifications, he shall apply to the Engineer-in- Charge in writing along with the credentials and relevant details including name of owner/company, its location, capacity technical establishment, past experience etc. Engineer- in-Charge shall give approval in writing and the work shall not be started without said written approval of the Engineer-in-Charge. The entire responsibility for the quality of this treatment and its efficiency shall however, rest with the main contractor only.

The contractor shall ensure that the basement of the building shall be absolutely water tight and seepage/leak free. In case any seepage/leakage etc. is noticed the contractor shall make it water tight & seepage/leak proof at his own cost.

Expansion Joints:

PVC water stops shall conform to IS: 12200 (Code of practice for provision of water stop at Transverse contraction joints in masonry and concrete dams).

Construction Joints:

The contractor shall give his proposal for location and treatment of construction joints. The construction joints shall be provided only at places and in the manner as approved by Engineer-in-Charge.

Except where shown otherwise on the drawing, reinforcement shall continue through construction joints.

The foreign matter and laitance shall be cleaned properly by compressed air before starting further work.

Guarantee Bond:

Five years guarantee bond in prescribed proforma attached at **annexure II** herewith shall be submitted by the contractor which shall also be signed by both the specialized agency and the contractor to meet their liability/liabilities under the guarantee bond. However, the sole responsibility about efficiency of water proofing treatment shall rest with the building contractor.

Separate guarantee bonds shall be submitted by the Contractor for different type of water proofing work.

Ten per cent of the cost of water proofing work (all items such as crystalline slurry treatment over the roof and cool roof plain vitrified tiles) shall be retained as security deposit and the amount so withheld would be released after five years from the date of expiry of maintenance period under the agreement, if the performance of the work done is found satisfactory. If any defect is noticed during the guarantee period, it shall be rectified by the contractor within seven days of receipt of intimation of defects in the work. If the defects pointed out are not attended within the specified period, the same will be got done from other agency at the risk and cost of contractor.

The security deposit against this item of work shall be in addition to the security deposit mentioned elsewhere in contract form.

INTEGRAL WATER PROOFING TREATMENT

Treatment for roof surface with integral cement based compound

The execution of work shall have to be undertaken strictly as per relevant item of work.

MEASUREMENTS: The measurements shall be taken along the finished surface of treatment including the rounded and tapered portion at junction of parapet wall. Length and breadth shall be measured correct to one centimetre and area shall be worked out to nearest

0.01 sqm. No deduction in measurements shall be made for either opening or recesses for chimneys, stacks, roof lights and the like of areas upto 0.10 sqm. Nor anything extra shall be paid for forming such openings. For similar areas exceeding 0.10 sqm. Deductions will be made in measurements for full openings and nothing extra shall be paid for making such opening.

Rates: The rate shall include the cost of all labour and materials involved in all the operation described above.

GUARANTEE BOND

Five years Guarantee bond in prescribed Performa attached as **Annexure - II** herewith shall be submitted by the contractor which shall also be signed by both the specialized agency and the contractor to meet their liability/liabilities under the guarantee bond. However, the sole responsibility above efficiency of water proofing treatment shall rest with the building contractor.

(Ten percent) of the cost of water-proofing work shall be retained as security deposit and the amount so withheld would be released after Five years from the date of completion of the entire work after expiry of maintenance period under the agreement, if the performance of the work done is found satisfactory. If any defect is noticed during the guarantee period, it shall be rectified by the contractor within seven days of receipt of intimation of defects in the work. If the defects pointed out are not attended to within the specified period, the same will be got done from another agency at the risk and cost of contractor.

The security deposit against this item of work shall be in addition to the security deposit mentioned elsewhere in contract form.

- a. All the materials, fixtures, fittings etc. shall be of the best quality and shall be of approved make and manufacture (wherever specified) as defined in the item of work or defined anywhere in this document otherwise shall be as mentioned in the CPWD specifications failing which the same shall be of ISI mark duly approved by the Engineer-in-Charge.

TECHNICAL SPECIFICATIONS FOR PRE-CAST CONCRETE PAVING BLOCKS

BASE

The finished surface of the concrete base shall match the design the profile of the concrete blocks with + or - 20 mm.

Compaction shall be done with vibrating roller.

BEDDING LAYER

The bedding shall be from either a single source or blended to achieve the following grading.

Sieve Size	% Passing
9.52 mm	100
4.75 mm	95-100
2.36 mm	80-100
1.18 mm	50-100
600 microns	25-60
300 microns	10-30
150 microns	5-15
75 microns	0-10

Single sized, gap-graded sands or those containing an excessive amount of fines will not be used. The sand particles should preferably be sharp not rounded.

The joint-filling sand should pass a 2.35 mm sieve and be well graded. The following grading has been shown to give good results.

Sieve Size	% Passing
2.36 mm	100
1.18 mm	90-100
600 microns	60-90
300 microns	30-60
150 microns	15-30
75 microns	0-10

The use of cement in the joint-filling sand is not recommended as a general practice as the cemented sand is likely to crack into segments which are easily dislodged.

Average thickness of this laying course shall be 50mm with minimum of 40mm and a maximum of 80mm.

Humidity contents shall be at least 4% by weight.

It should contain not more than 3% by weight of clay and silt and the materials shall be free from deleterious or contaminants.

The finished surface of the bedding layer shall match exactly the design profile as indicated on the drawings.

Before placing the bedding layers, clean the surface of concrete by sweeping.

During construction the draining of the bedding and / or concrete use assured by perforations in the gully chambers at a matching level.

Do not allow any walking or driving on the finished surface of the bedding layers.

CONCRETE PAVING BLOCKS.

Laying of the blocks shall be done, precisely at the indicated level and profile and in a way that good surface draining to the gully chambers is assured.

Around gully chambers inspection pits etc. the pavement shall have a level of 5mm higher than the above mentioned elements.

The blocks shall be laid in an elbow pattern. The blocks shall be laid as tight as possible to each other and also along connections. The maximum joint width is limited to 4mm.

Laying of broken blocks is not allowed except along connections. The maximum length of a purpose broken block is 100mm. Breaking of the blocks shall be done with a block "block splitter".

Fine angular sand as per specification shall be brushed into the joints, thereafter compaction shall be done with a vibrating plate compactor on clean surface. After compaction again fine angular sand shall be brushed into the joints.

As well as before as after the compacting the maximum tolerance in profile under a lineal with a length of 3m shall be within + or - 5mm.

TECHNICAL SPECIFICATIONS FOR PRE-CAST CONCRETE PAVING BLOCKS

BASE

The finished surface of the concrete base shall match the design the profile of the concrete blocks with + or - 20 mm.

Compaction shall be done with vibrating roller.

BEDDING LAYER

The bedding shall be from either a single source or blended to achieve the following grading.

Sieve Size	% Passing
9.52 mm	100
4.75 mm	95-100
2.36 mm	80-100
1.18 mm	50-100
600 microns	25-60
300 microns	10-30
150 microns	5-15
75 microns	0-10

Single sized, gap-graded sands or those containing an excessive amount of fines will not be used. The sand particles should preferably be sharp not rounded.

The joint-filling sand should pass a 2.35 mm sieve and be well graded. The following grading has been shown to give good results.

Sieve Size	% Passing
2.36 mm	100
1.18 mm	90-100
600 microns	60-90
300 microns	30-60
150 microns	15-30
75 microns	0-10

The use of cement in the joint-filling sand is not recommended as a general practice as the cemented sand is likely to crack into segments which are easily dislodged.

Average thickness of this laying course shall be 50mm with minimum of 40mm and a maximum of 80mm.

Humidity contents shall be at least 4% by weight.

It should contain not more than 3% by weight of clay and silt and the materials shall be free from deleterious or contaminants.

The finished surface of the bedding layer shall match exactly the design profile as indicated on the drawings.

Before placing the bedding layers, clean the surface of concrete by sweeping.

During construction the draining of the bedding and / or concrete use assured by perforations in the gully chambers at a matching level.

Do not allow any walking or driving on the finished surface of the bedding layers.

CONCRETE PAVING BLOCKS.

Laying of the blocks shall be done, precisely at the indicated level and profile and in a way that good surface draining to the gully chambers is assured.

Around gully chambers inspection pits etc. the pavement shall have a level of 5mm higher than the above mentioned elements.

The blocks shall be laid in an elbow pattern. The blocks shall be laid as tight as possible to each other and also along connections. The maximum joint width is limited to 4mm.

Laying of broken blocks is not allowed except along connections. The maximum length of a purpose broken block is 100mm. Breaking of the blocks shall be done with a block "block splitter".

Fine angular sand as per specification shall be brushed into the joints, thereafter compaction shall be done with a vibrating plate compactor on clean surface. After compaction again fine angular sand shall be brushed into the joints.

As well as before as after the compacting the maximum tolerance in profile under a lineal with a length of 3m shall be within + or - 5mm.

16. VITRIFIED PORCELAIN TILES (ANTI SKID)

The tiles shall be Anti-skid unpolished / matt finished and shall be of approved make and pattern/design/colour.

Dimensional and surface quality requirements and physical and chemical properties shall be as follows:-

16.1.1	Deviation in length & width of each tile from the prescribed length	± 0.5%
16.1.2	Deviation in length & width of each tile from the average size of 10 test specimens	± 0.75%
16.1.3	Deviation in thickness of each tile from the prescribed thickness	± 5%
16.1.4	Straightness of sides (Facial sides) related to prescribed sizes	± 0.5%
16.1.5	Rectangularity related to prescribed size	± 0.6%
16.1.6	Surface Flatness	
16.1.6.1	Centre curvature related to diagonal calculated from prescribed size	± 0.5%
16.1.6.2	Edge curvature related to prescribed size	± 0.5%
16.1.6.3	Warpage related to diagonal calculated from prescribed size	± 0.5%
16.1.7	Surface Quality	- Minimum 95% of tiles shall be free from visible defects that would impair the appearance of a major area of tiles.
16.1.8	Water absorption by weight	- Less than or equal to 3% average & max. 3.3% for individual tile.
16.1.9	Modulus of rupture	- Min. 300 Kg/cm ²
16.1.10	Scratch hardness (Moh's scale)	- Equal to or more than 6
16.1.11	Abrasion resistance	- Less than or equal to 205mm ³
16.1.12	Thermal shock resistance	- Resistance to 10 cycles
16.1.13	Co-eff of thermal expansion from ambient temp. to 100 ^o C(K ⁻¹)	- Max 9 x 10 ⁻⁶
16.1.14	Resistance to staining of glazed size	- Min. Class 2

The sampling of tiles for various test shall be as per IS - 13711.

The tests shall be carried out as per provisions of IS 13630 (Pt 1 13).

Preparation of surface & laying

Base concrete or the RCC slab on which the tiles are to be laid shall be cleaned wetted & mopped. The bedding mortar shall be as specified in the item of the work. Mortar and tiles shall be laid as per CPWD Specifications 2019, Volume I & II. (Withuptodate correction slips).

The pointing & finishing of tiles shall be as per CPWD Specifications 2019, Volume I & II. (Withup-to-date correction slips).

The measurements shall be as per CPWD Specifications 2019, Volume I & II. (with up-to-date correction slips).except that the glazed tiles mentioned therein shall mean ceramic glazed tiles.

The rate shall include the cost of all materials and labour involved in all the operations. Nothing extra shall be paid for use of cut (sawn) tiles in the work.

17. SPECIAL CONDITION FOR ACRYLIC PAINT

The Acrylic Paints manufactured by reputed Paint manufacturing company like Asian,Berger,Dulux or Akzonobel, Nerolac and snowcem India Ltd. Shall only

be used as approved by Engineer-in-charge.

The surface shall be cleared, prepared by removing algae, dust, fungus, foreign material etc to the requirement of manufacturers specification. For this purpose surface shall be scrapped, removing existing cement paint, colour wash etc. sacrificed, sand papered, washed, dried etc as per the condition of surface and direction of Engineer-in-charge. Application of acrylic paint shall not be taken up till satisfactory preparation of surface as approved by Engineer-in-charge.

The necessary repairs to plaster, chajjas, seepage scraping & sand papering etc. shall be done/completed before the start of surface preparation for painting work. Such repair to plaster, chajjas, seepage affected areas and scraping sand papering etc shall be paid separately under relevant items.

An amount equivalent to **10% of amount of Exterior acrylic paint items** shall be withheld from final bill and shall be released after satisfactory performance of the paints for a period of four years from the actual date of completion of work. Performance of acrylic paint application shall be satisfactory for four years against fading or peeling off of the paint.

The contractor shall submit a performance guarantee bond for watching and ensuring successful performance of acrylic paint for four year as envisaged under point No. 4 in the prescribed format attached with the agreement **Annexure-III**.

The purchase of paint shall be made directly from the manufacturers or their authorized dealers in not more than two lots. The delivery challan and vouchers shall be submitted as issued by the manufacturer's stock yard directly with full description of the work for which the purchase is being made.

The shade and colour shall be finalized by the Engineer in charge.

18. SPECIAL CONDITIONS (REPAIR WORKS)

The Special repair work as per relevant items has to be carried out in a multi storied building / residential building/ an occupied office building with occupants and the contractors shall quote his rates after studying the site conditions. All precautions for least inconvenience to occupants shall be done by contractor.

All bye-laws laid down by CMDA/GCC and any other local bodies while executing the work shall be adhered at no extra cost. All taxes / levies payable to CMDA/GCC and other local bodies shall be borne by Contractor. All traffic restrictions notified by local authorities shall be adhered at no extra cost

All precautions not to damage the Government property shall be taken by the contractor. If any damage is caused to any structure etc. the same shall be made good by the contractor at his cost to the satisfaction of Engineer-in-charge

Double bamboo scaffolding with PVC sheet / GUNNY cloth covering shall be provided for full height of the structure with proper stitching etc. to prevent any rubbish etc. falling outside while demolishing guniting and plastering etc. All windows/doors/ventilators/RCC jali/openings shall be covered by plywood / G.I. sheets properly in advance while doing work. All glass panes if broken shall be made good at no extra cost.

All warning board displays such as REPAIR WORK IN PROGRESS, KEEP AWAY FROM BUILDING, NO PARKING etc. along with sufficient supervisory staff on ground shall be provided at no extra cost.

Water and electricity shall be arranged by Contractor. All required chemicals shall be got approved and deposited with the departmental Supervisory staff. Day-to-Day account for receipt / issue etc. as per standard practice shall be followed.

The site of work shall always be kept neat and clean and all building rubbish shall be periodically removed from the premises to avoid nuisance to occupants.

The area of dismantling / guniting / re-plastering / repairing as per relevant items etc. given in the tender may be got done in patches at different heights / levels also, for which no extra claim will be entertained.

Lifting of materials such as cement, sand, wooden planks etc. through staircase / lift is prohibited. No mixing of mortar / cement concrete etc. over the open terrace / flooring shall be permitted. Arrangements as deemed fit shall be made by contractor for mixing / lifting all materials etc. at no extra cost

Adequate support to the structural members/building shall be ensured by the Contractor before carrying out the structural repairs. Nothing extra shall be paid on this account. If any damage is caused to any member/building etc., the same shall be made good by the Contractor at his cost to the satisfaction of the Engineer-in-charge.

STANDARD OF ACCEPTANCE

Standard of acceptance shall be as specified in CPWD Specification 2019 Field laboratory: The contractor shall at his own cost, equip and establish a field laboratory at the site of work with requisite man power for carrying out all mandatory tests for RCC works. The apparatus, instrument and equipment to be provided in the laboratory, is as per the drawings and directions of the Engineer – in – Charge as detailed below

CONDITION FOR CEMENT & STEEL TO BE BROUGHT BY THE CONTRACTOR

1. Cement

The contractor shall procure 43 grade (conforming to IS: 269-2015) ordinary Portland cement as required in the work, from reputed manufacturers of cement having a production capacity of one million tonnes per annum or more, such as ACC, Ultra Tech, Coromandal, Birla, Shree Cement, Birla and Ramco, etc., as approved by the Ministry of Industry, Government of India, and holding license to use ISI certification mark for their product whose name shall be got approved from the Engineer-in-Charge. Supply of cement shall be taken in 50 kg bags bearing manufacturer's name and ISI marking. Samples of cement arranged by the contractor shall be got tested in accordance with provisions of relevant BIS codes. In case, test results indicate that the cement arranged by the contractor do not conform to the relevant BIS codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-Charge to do so.

The cement shall be brought at site in bulk supply of approximately 50 tonnes or as decided by the Engineer-in-Charge.

The cement go-down of the capacity to store a maximum of 2000 bags of cement shall be constructed by the contractor at site or work for which no extra payment shall be made. Double lock provision shall be made to the door of the cement go-down. The keys of one lock shall remain with the Engineer-in-Charge or his authorized representative and the key of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement go-down. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge at any time.

The contractor shall supply free of charge the cement required for testing. The frequency and the details of the tests shall be decided by the Engineer-in-Charge depending on the quantum of supply in each batch. **the testing charges to be borne by the contractor, all expenditure to be incurred for testing of samples e.g. packaging, sealing, transportation, loading, unloading etc. including testing charges shall be borne by the contractor (The tests shall have to be carried out only at the labs approved by the SDG, Chennai)**

The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in the contract and shall be governed by conditions laid therein. Items for which standard coefficients for cement consumption are not available in **DSR 2023**, the same shall be decided by the Engineer-in-Charge.

Cement brought to site and cement remaining unused after completion of work shall not be removed from site without written permission of the Engineer-in-Charge.

The cement bags shall be stacked on proper floors consisting of two layers of dry bricks laid on well-consolidated earth at a level of at least one foot above ground level. The stacks shall be in rows of 2 and 10 bags high with minimum of 0.67 m clear space around. The bags should be placed horizontally continuous in each line. Actual size/shape of godown shall be as per site requirements and nothing shall be paid on this account. The decision of Engineer-in-Charge regarding capacity shall be final.

Cement register for the cement shall be maintained at site. The account of daily receipts and issues of cement shall be maintained in register in the pro forma prescribed and signed daily by contractor or his authorized agent.

SPECIAL CONDITION FOR STEEL REINFORCING BARS TO BROUGHT BY THE CONTRACTOR

SPECIAL CONDITION FOR STEEL REINFORCING BARS

Only ISI marked TMT Bars of various grades shall be procured from Steel manufacturers as per the following guidelines:

(1) All the approvals of steel manufacturers issued vide this office were withdrawn vide OM No.

DG/MAN/382 dated 06.02.2019

(2) The Special Director General (Project Region/Region)/ADG (Project Region/Region) of respective region of CPWD shall approve the steel manufacturers subject to the eligibility criteria and other technical parameters as per OM No. DG/MAN/382 dated 06.02.2019 which is reproduced below.

Eligibility criteria & other technical parameters for steel manufacturers

The manufacturers should meet the following eligibility criteria:

(a) The steel manufacturers should have following documentary evidence:

h) Certificate of incorporation

ii) Memorandum of articles of Association

iii) Credit rating of the company from CARE/CRISIL/ICRA (the grading should not be C/D grade for minimum last 3 years)

(b) The steel manufacturers must have following licenses and certificates:

i) ISI certificate for billets (IS 2830:2012)

ii) ISI certificate for TMT Bars (IS 1786:2008 Amendment-1 November 2012)

(c) The steel manufacturers should also preferably have the following licenses:

i) ISO 9001:2015

ii) ISO 14001:2015

iii) OHSAS 18001:2007

(d) The steel manufacturers should be using iron ore as the basic raw material. The entire gamut of iron and steel production is owned by the same company or its subsidiary company/(ies) and the iron making capacity is sufficiently matching the steel making capacity, adopting any of the refining technologies for manufacturing steel & TMT Bars as given under are eligible :

i) BF-BOF route

ii) COREX – BOF Route

iii) DRI-EAF Route (Each Electric Arc Furnace should be 100 MT or more)

(e) Billets produced must be ISI marked (IS 2830-2012)

(f) The TMT bars produced must be ISI marked (IS 1786-2008)

(g) The steel manufacturer should have the following in House Testing facilities (NABL Accredited):

i) Computerised Universal Testing Machine

ii) Spectrometer

iii) Bend Re-bend facility as per IS: 1786:2008 (Amendment-1 November 2012)

- iv) Raw material laboratory: Arrangement for testing Carbon, sulphur & Phosphorous etc. Other testing facilities as specified in IS: 1786:2008 & IS: 2830:2012

(3) SDGs/ADGs are also authorised to approve particular steel manufacturer on suo motto in case they are satisfied with the eligibility criteria and other technical parameters of that manufacturer

(ii) The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.

(iii) Samples shall also be taken and got tested by the Engineer-in-charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications as defined under para 2.1 above, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week's time of written orders from the Engineer-in-charge to do so.

(iv) The steel reinforcement bars shall be brought to the site in bulk supply of 10 tonnes or more or as decided by the Engineer-in-Charge.

(v) The steel reinforcement shall be stored by the contractor at site of work in such a way as to prevent distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.

(vi) For checking nominal mass, tensile strength, bend test, re-bend test, etc., specimen of sufficient length shall be cut from each size of the bar at random, and at frequency not less than that specified below:-

Size of bar	For consignment below 100 Tonnes	For consignment over 100 Tonnes
Under 10mm dia bars	One sample for each 25 tonnes or part thereof	One sample for each 40 tonnes or part thereof
10 mm to 16mm dia bars	One sample for each 35 tonnes or part thereof	One sample for each 45 tonnes or part thereof
Over 16 mm dia bars	One sample for each 45 tonnes or part thereof	One sample for each 50 tonnes or part thereof

(vii) The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. **the testing charges to be borne by the contractor, All expenditure to be incurred for testing of samples e.g. packaging, sealing, transportation, loading, unloading etc. including testing charges shall be borne by the contractor (The tests shall have to be carried out only at the labs approved by the SDG, Chennai).**

(viii) The actual issue and consumption of steel on work shall be regulated and proper accounts shall be maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations, recovery at the rate so prescribed shall be made. In case of excess consumption, no adjustment needs to be made.

(ix) The steel brought to site and steel remaining unused shall not be removed from site without the written permission of the Engineer-in-Charge.

For the purpose of payment, the actual weight of reinforcement steel shall be worked out as below:

To arrive at unit weight for the purpose of payment three random samples each of 1 meter length shall be collected for each diameter of re-bar from every consignment received at site. Actual weight of three specimens for each diameter shall be taken and average weight calculated and recorded. The average weight so arrived at shall be compared with theoretical weight of that particular diameter of rebar. Actual or theoretical weight whichever is less shall be considered for making payment for that consignment. However final payment shall be made on the basis of weighted average of all the consignment. The decision of the Engineer-in-charge as regards the random samples and average weight shall be final and binding on the contractor and no claim of any kind shall be entertained in this regard.

List of Approved Civil materials for Chennai Zone, CPWD Chennai
(Includes list approved by SDG (PRC) and ADG (RC), if any, as on 02.12.2020)

NOTE: Notwithstanding to the approval given in the list, the field staff are requested to observe the following conditions

1. Equivalent material and finishes of any other make may be used on written request of the contractor, in case of unavoidable circumstances and also if it is established that minimum three brands are not specified below or three brands out of all brands specified below are not available in the market, after written approval of the alternate brand by the NIT approving authority. This substitution shall be subject to cost adjustment in case the substituting brand is available at cheaper rates in market than those mentioned herein above. There shall be no cost adjustment if the substituting brand is costlier in market than those mentioned herein.

2. In addition, the brands approved as hereunder, should have valid and active BIS certificate as on the date of supply for the work.

3. Material shall conform **to make in India policy of Government of India** as on the date of supply for the work.

4. Other brands not included in the list below but having BIS certificate on the date of supply for the work shall only be allowed against note (1) above.

5. In case of non availability of BIS codes for any of the materials incorporated above, the Engineer-in-charge shall send the materials for testing as per the relevant ASTM or EN codes and satisfy himself before using the same in work.

Sl.No	Material Description	Material	
		Brand	Make
SUB HEAD No.2			
EARTH WORK			
1	Chloropyriphos	DURSBANTCT	DE-NOCIL Ltd.
		Premise Agends	Bayer Ltd
		PIRAMID	AMVAC AGRI RASAYAN Pvt Ltd
		NOBAN	Chemtts Wets & Flows Pvt. Ltd
		HILBAN	Hidustan Insecticides Ltd.
		Sarups Pest Control	Sarups Pest Control Ltd
SUB HEAD NO.3			
MORTAR			
1	Ordinary Portland Cement (43 grade) / Portland Pozzolona Cement (PPC)	ACC	ACC cements Ltd
		Ultra Tech	Ultra Tech Cement Ltd.
		Coromandal	India Cements Ltd.
		Chettinadu	Chettinadu Cements Corporation Ltd.
		Bharathi	Bharathi Cement Corporation Ltd.

		Dalmia	Dalmia Cement Bharat Ltd.
		Zuari	Zuari Cement Limited.
		JSW	JSW Cement Ltd.,
		Japee Cement	Japee 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.
		Konark Cement	Konark Cement
		Centuary Cement	Birla Gold Cement
		Shree Cement	Shree Cement
		Ramco Cement	Ramco Cement Ltd
		Sagar Cement	Sagar Cement Ltd
		Emami Cement	Emami Cements Ltd
		SUB HEAD NO.4	
CONCRETE WORK			
1	Damp Proof course materials	MAPEI	MAPEI Construction Products India Pvt. Ltd.
		Impermo	Snowcem Paints
		Duraseal	Apurva India Pvt. Ltd.
		ACCO Proof	ACC Cement Ltd.
		Dr.Fixit	Pidilite Industries
		Ferrous crete	Ferrous Crete (India) Pvt. Ltd.
		Fosroc	Fosroc Chemicals India Pvt. Ltd.
		CICO	CICO Industries
		SIKA	Sika India Pvt. Ltd
		PIDILITE	Pidilite Industries Ltd.
		BASF	BASF India Ltd
		MYK	MYK LATICRETE India Pvt.Ltd.
		Asian Paints smart caredampproof	Asian Paints Ltd
		Weather Coat Roof gaurd	Berger Paints
		Wallshield 2K	Berger Paints
		KCPL	Kunal Conchem Pvt Ltd

SUB HEAD NO.5			
REINFORCED CONCRETE WORK			
1	TMT bars Fe-500D	SAIL	Steel Authority of India Ltd.
		TISCO	TATA STEEL Ltd
		VIZAG	Rastriya Ispat Nigam Ltd.
		JSW	JSW Steel Ltd
		Shyam Steel	Shyam Steel Industries ltd.
		Contrament, power flow	MC Bauchemie (India) Pvt. Ltd.
2	Plasticiser & Super Plasticiser	Sunanda Chemicals	Sunanda Chemicals Ltd.
		Plastiment, Sikament	Sika Inida Pvt Ltd.,
		Conplast SP430	FOSROC India
		Chryso-HP / Delta / Optima	Chryso India Pvt. Ltd.,
		MYK Schomburg	MYK Arments range of products
		BASF	BASF India Ltd
		CICO	CICO Industries
		Smart Care Techno Plast/Smart Care Maximo Plast	Asian Paints Ltd
		Endura	H.R. Jhonsons
		KCPL	Kunal ConchemPvt. Ltd.,
3	Expansion Joint Bitumen board	Dura board HD100	Supreme Industries
		DURAFILL	Supreme Industries
		STP	Shalimar Tar Products
4	Post Tensioning system	CRUX	Crus processing systems Pvt Ltd
		VSL	VSL India Pvt Ltd
		Ultracon	Ultracon Structural Systems Pvt Ltd
		BBR	BBR (India) Pvt Ltd
5	PT Strands	DP wires	DP Wires Ltd
		TATA Wiron	TATA Steel Ltd
		Usha Martion	Usha Martion Ltd
6	Adhesives	Dunlop	India Tyre & Rubber Co (India) Ltd.
		Vamorganic	Vamorganic Ltd.,
		Sika	Sika India Pvt. Ltd
		Fevicol	Pidilite Industries

		Proofex of adhesive	Fosroc India Ltd
		CICO	CICO Industries
		Asian Paints	Asian Paints
		Kerabond Plus	MAPEI Construction Products India P Ltd.
7	Grout	Ardex	Ardex Endura Adhesive India Pvt. Ltd
		LATA POXY	MYK LATICRETE India Pvt. Ltd
		Fugabella, Porcelana	Kerakoll India Pvt. Ltd.
		Dr.Fixit	Pidilite Industries
		Weber	Saint-GobinIndiaPvt. Ltd
		Ferrous crete	Ferrous Crete (India) Pvt. Ltd.
		BASF	BASF India Ltd
		FosrocGP2	Fosroc India Ltd
		MYK Schomburg	MYK Arments range of products
		Fugabella, Porcelana	KerakollIndiaPvt. Ltd
		Kerapoxy	MAPEI Construction Products India P Ltd.
		KCPL	Kunal ConchemPvt. Ltd.,
		Asian paints	Smart Care SC GP Grout Grey
		Pidilite	Pidilite Industries Ltd.
		Care	Care
		Mapefill GPIN	MAPEI Construction Products India P Ltd.
		SIKA	SIKA India
		Smart Care SC GP Grout Grey	Asian Paints
		HomeshieldSupergrout	Berger Paints
8	Ready Mix Concreate	Ultra Tech	Ultra Tech Concrete
		ACC	ACC Ltd
		RMC (India)	RMC (India) Pvt. Ltd.
		Lafarge	Lafarge India Pvt. Ltd

9	Mechanical coupler for Reinforcement	Dextra	Dextra India Pvt., Ltd.
		Sanfield	Sanfield India Ltd
SUB HEAD NO.6			
BRICK WORK			
1	AAC Blocks	Xtralite	ULTRATECH Cement Ltd
		Areocon	HIL
		Siporex	SIPOREX
		Nucon	Green way building materials India Pvt. Ltd
		Renacon	Renaatus Procon Pvt. Ltd.
		Birla Aerocon	HIL Ltd (CK Birla Group)
		NCL	NCL VEKA Ltd.
2	Adhesive for AAC Block /Tiles	Ultrtech	Ultratech cements Ltd.
		Ardex Endura/Gold Star	Ardex Endura
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Smart Care Tile Adhesive	Asian Paints
		Tile Adhesive Plus	Berger Paints
SUB HEAD NO.9			
WOOD & PVC WORK			
1	Wooden Flush door shutters	Jayna ply	Jain Wood Industries
		Raavella door	Raavella Industrials (P) Ltd
		Kailash	Kailash Hi tech Timber Industries India Pvt. Ltd
		Shakthi	Shree Shakthi Modern Flush doors
		Greenlam	Greenlam Industries
		Mayur	Mayur Plywood
		MP Ply wood products	MP Wood products
		Archidply	Archidply Industries Ltd
		DEC	D.E.C Infrastructure & Project (India) Pvt.Ltd.
		Greenpanel	Greenpanel Industries Ltd.
		Jain Doors	Jain Doors Pvt. Ltd,

		Indian Timber Products	Indian Timber Products
		Kitply	Kitply Industries Ltd.
		DuroFlushdoors	Duro Ply Industries Ltd.
		Kenwood	Kenwood Ply & Board
		Century	Century Flush Doors
2	Water Proof Plywood, Commercial ply, Fire retardant ply and Block boards, BWR Marine Ply, BWR/ MR Ply.	Jayna ply	Jain Wood Industries
		Greenpanel	Greenpanel Industries Ltd.
		Archidply	Archidply Industries Ltd
		Kitply	Kitply Industries Ltd.
		Duroply	Duro ply Industries Ltd.,
		Century ply	Century Flush Doors
		Wuudply	M/s Prime Veneers Ltd.
3	Laminates	Green Lam	Green lam Industries Ltd.
		Centuary	Centuray laminates
		Merino	Merino laminates
		Royal touche	Royal touche laminates
		Kitmica	Kitply Industries Ltd.
		Formica	Formica Laminates (India) Pvt Ltd.
		Heritage	Deco Mica Limited, Ahmedabad
		Decolam	Decolam India Pvt Ltd.
		Archidply	Archidply Industries Ltd
		Sonear	Sonear Laminates
		Sunmica	Sunmica Industries
		Vidya Ply	Vidya Ply & Board Pvt.Ltd.
4	Prelaminated particle board MDF (Exterior Grade)	Novapan	GVK Novapan Industries Pvt Ltd.,
		Merino	Marino laminates
		Kitlam	Kit Ply Industries Ltd,
		Ecoboard	Ecoboard Industries Ltd.
		Associate	Associate Décor Limited
		Archid ply	Archid ply industries Ltd.
		TESA	Balaji Action Buildwell

		Century	Century MDF
		Green lam	Green lam industries Ltd.
		Heritage	Deco Mica Limited, Ahmedabad
		Greenpanel	Greenpanel Industries Ltd.
5	Veenering	Greenpanel	Greenpanel Industries Ltd.
		Century	Century MDF
6	FRP Door Frames & Shutter	Jain Doors	Jain Doors Pvt. Ltd,
		Signum	Signum Fire Protection India Pvt. Ltd
		Meena Fibre Glass,	Meena Fibre Glass
		Duroplast	Duroplast extrusion Pvt Ltd
		Cactus	Cactus
		Polyline	Polyline
7	1.Factory made panel door shutter, 2.Factory made wire mesh door shutters 3.LVL door shutter	Jain doors	Jain doors Pvt Ltd
8	High Density (HDF) Prelaminated board	Pergo	Red Floor India
		Armstrong	Armstrong world Industries
		Green ply	Green ply Industries Ltd.,
9	Gypsum board	Gyproc Saint Gobain	Saint Gobain Gyproc India Ltd
		Lafarge	Lafarge Gypsum India Pvt Ltd
		USG Boral Board	USG Boral Board India (P) Ltd
		Armstrong	Armstrong wold Industries
10	Glass Door Hardware	Dorma	Dorma India Pvt Ltd
		Kich	Kich Architectural Products Ltd.
		Classic	Classic hardware
		Hafele	Hafele India Pvt. Ltd
		Ozone	Ozone Hardware.
		Geze	Geze GMBH
		Define	Define Overseas Pvt. Ltd.
		Squash	Squash glass doors
		Dorset	Dorset Industries Pvt Ltd
		Garg	D P Garg Pvt Ltd
11	Hydraulic door closers/ Floor springs	Godrej	Godrej locking solution & systems
		Hardwyn	Hardwyn hardware
		Dorma	Dorma India Pvt Ltd.
		Everite	Everite agencies
		MAGNUM KIT	Mukund Overseas
		Dorset	Dorset Industries Pvt Ltd

		Geze	GezeGMBH
		Garg	D P Garg Pvt Ltd
		Ingersolrand	Ingersolrand India Pvt Ltd
		OZONE	Ozone Hardware.
12	Locks & Latches	Dorset	Dorset Industries Pvt Ltd
		Godrej	Godrej locking solutions& systems
		Harrison	Harrison locks
		Plaza	Bharat lock House
		Yale	ASSA ABLOY India (P) Ltd.
		Hitech	Globe Locks India
		Hafele	Hafele India Pvt. Ltd
		Link	Link Locks
		Geze	GezeGMBH
		Garg	D.P. Garg Pvt Ltd.,
13	Metalic / Steel Fire Door , frame and shutters	Shakthi Hormann	Shakthi Hormann Pvt Ltd,
		Promot	Promot fire & Insulation (P) Ltd.
		Godrej	Godrej Security solutions
		Signum Fire	Signum Fire Protection India Pvt. Ltd
		MPP Schodders	MPP Technology Pvt.Ltd.
		NAVAIR	NAVAIR International Pvt Ltd
		Sukri	Sukri Fire doors Pvt.Ltd
		Kenwood	Kenwood Ply & Board
14	Fire Smoke Seal	Hilti	Hilti India Pvt Ltd.
		Raven	Raven Global
		Promat	Promat fire & Insulation (P) Ltd.
		Atroflame	Atroflame Ltd.
15	Non Metalic Floor Surface Hardners	Ironite	Ironite
		Hardonite,	Hardonite
		FOSROC	Fosroc India
		SIKA	SIKa India
		BASF	BASF India Ltd.,
		CICO,	CICO Technologies Ltd.,
		Pidilite	PidiliteIndustries Ltd,
16	Fire rated hardware	Dorma	Dorma India Pvt. Ltd
		Ingersolrand	Ingersolrand (India) Ltd,

		Geze	GezeGmbH
		Dorset	Dorset Industries Pvt Ltd
		Garg	D.P. Garg Pvt Ltd.,
		Backers FS	Backers FS
17	Non Metallic Fire door	NAVAIR	NAVAIR International Pvt Ltd
		Promot	Promot fire & Insulation (P) Ltd.
		Godrej	Godrej Security solutions
		Kenwood	Kenwood Ply & Board
18	Stainless steel screws	Kundan	Kundan Industries Ltd.
		Pooja	Pooja SteelCorporation
		Atul	Atul fasteners Ltd.
		Alloy	Alloy ltd
		GKW	GKW Limited
		Nettlefold	Nettlefold screws
19	Butt Hinges openable window shutters	Hafela	Hafele India Pvt. Ltd
		Alu Alpha	Alu Alpha India
		Earlt Bihari	EarltBihari India Pvt .Ltd.
		Dorma	DormakabaIndiaPvt. Ltd
		Garg	D.P. Garg Pvt Ltd.,
		Dorset	Dorset Industries Pvt Ltd
20	Mild Steel Butt Hinges / Piano hinges	Jolly	Jolly Engineering works
		Garg	D.P Garg& Company
		Amit	Lovely metal industries Pvt Ltd.
		Jyoti	Jyoti Architectural Pvt Ltd.
		Supreme	Supreme
		Saswat	Saswat
		Deepak	Deepak
		Swift	Swift screws
21	Stainless steel Butt hinges	Prayag	PrayagPolymers (P) Ltd
		Ozone	Ozone Hardware.
		Dorma	Dormakaba India Pvt Ltd
		Geze	GEZEGMBH
22	Concealed tower	Dorma	Dorma India Pvt Ltd

	bolt	Ingersolrand	Ingersolrand (India) Ltd,
		Alu Alpha	Alu Alpha India
		Garg	D.P. Garg Pvt Ltd.,
		DORSET	Dorset Industries Pvt Ltd
23	UPVC doors, frames and window profiles	Fenesta	Fenesta DCM Shriman
		QUTE	QuteextrusionPvt. Ltd
		LG	LG Housys India
		Kommerling	Profine India Window technology Pvt Ltd.
		Duroplast	Duroplast extrusion Pvt Ltd
		Polyline	Polyline extrusion Pvt Ltd
		Aparna Venstar	Aparna Enterprises Ltd.
		AMD	AMD overseas Impex (India) Pvt. LTD.
		SimtaAstrix	Simta clear coats pvt.Ltd
		Rajshri	Rajshri Productions Pvt. Ltd.
		NCL VEKA	NCL VEKA Ltd.
		Prominace	Prominace Window Systems
		Marcolini	Mathura Polypack(P) Ltd.
		Akshara Polymerss	Akshara Polymerss
		Encraft	Encraft India Pvt.Ltd.
		Rehau	Rehau Unlimited Polymer Solutions
		Aluplast	Alu Alpha India
		Shirke	B.G Shirke Construction Technology Pvt Ltd.
24	Stainless friction hinges	Hetich	HetichIndia Pvt .Ltd.
		Haffle	Haffle India Pvt .Ltd.
		Securistyle	Securistyle India Pvt .Ltd.
		Earl Bihari	Earl Bihari India Pvt .Ltd.
		ROTO	ROTO Frank Asia
		EBCO	EBCO
25	Float Glass	Saint Gobain,	Saint Gobain India Pvt .Ltd. ,
		Asahi	Asahi India glass .Ltd.
		Pilkinton	Pilkinton India Pvt .Ltd.
		Modiguard	Gujarat Guardian Ltd.

26	Reflective glass	Saint Gobain,	Saint Gobain India Pvt .Ltd. ,
		Asahi	Asahi India glass .Ltd.
		Pilkinton	Pilkinton India
		Glaverbel	Glaverbel India
		Modifloat	Gujarat Guardian Ltd.
27	Tempered reflective/clear glass	Saint Gobain,	Saint GobainIndia Pvt .Ltd.
		FUSO	FUSO Glass India Pvt .Ltd.
		Gurind	Gurind India
		Impact safety	Impact safety glassworkes Pvt Ltd
		Asahi	Asahi India glass Ltd,
		Modiguard	Gujarat Guardian Ltd.
28	Fire rated glass	Contra flam/ Pyroswiss of SanitGobain	Saint Gobain India Pvt Ltd.
		Pyran of Schott	Schott glass India Pvt .Ltd.
		Pilkinton	Pilkinton India
		Promat	Promat fire & Insulation (P) Ltd.
29	Anchor/ SS Stone Dash fasteners	Hilti	Hilti India Pvt .Ltd.
		Fischer	Fischer India
		Anchor	Anchor Ltd
		Kundan	Kundan Industires Ltd.
		Nutech	Nutech Construction Chemicals
		Canon	Cannon
		Wurth	Wuerth India Pvt. Ltd
		Trixel	Axel India Pvt.Ltd
		Helfen	Helfen Anchoring System
		BOSCH	BOSCH Ltd
30	Partions	Birla Aerocon	HIL Ltd (CK Birla Groups)
STEEL WORK			
1	Structural Steel	SAIL	SAIL
		TISCO	TATA STEEL
		VIZAG	RINL
		JSW	JSW
		Apollo	APL Apollo
2	M.S.Pipes / Tubes and Hollow sections.	SAIL	SAIL
		TISCO	TATA STEEL

		METPRO	MKK Matel Section Pvt. Ltd.
		R.K. Steel	R.K. Steel Manufacturing Compnay Pvt. Ltd.,
		Apollo	APL Apollo
		Kalinga	Kalinga Tubes
		JINDAL	JSW
		Nezone	Nezone Tubes Limited
3	Stainless steel pipes / sections	Salem	SAIL
		Jindal	JSW
		SAIL	SAIL
		KINGSTON	KINGSTON Brass
		Connect	Connect Ltd.
		Ark	Ark Product Pvt. Ltd
4	Stainless steel Bolts, washers, nuts	Kundan	Kundan Industires Ltd
		Pooja	Pooja Steel Corporation
		Atul	Atul fasterners Ltd
		Hilti	Hilti India Pvt. Ltd
5	Stainless steel pressure plate screws	Kundan	Kundan Industires Ltd
		Pooja	Pooja steel corporation
		Atul	Atul fasterners Ltd
6	Welding rods	Advani	Advani oerlikon Ltd.
		ESAB	ESAB India Pvt. Ltd
7	Metal Deck Sheet	TATA	TATA STEEL
		SAIL	SAIL
8	Shear Stud/Connector	KOCO	KOSTER & Co.
9	Steel Windows/Pressed Steel Frames	Madhu Industries,	Madhu Industries, San Harvic, NCL
		San Harvic,	San Harvic
		NCL	NCL Industries
10	M S Precision Tubes (cold seamless pipes	R K Steel	R K Steel Manufacturing Compnay Pvt Ltd
SUB HEAD No.11			
FLOORING			
1	Vitrified tiles & Bath room anti-skid	Asian (AGL)	Asian Granite India Ltd
		NITCO	NITCO Ltd

	tiles	RAK	RAK Ceramic India Pvt Ltd.
		Kajaria	Kajaria Ceramic Ltd
		Restile	Restile Ceramic Ltd
		Somany	Somany Ceramic Ltd
		Jhonson	Prism Jhonson Ltd
		Orient Bell	Orient Bell Ltd
		Varmora Granito	Varmora Granito Granite Ptd Ltd
		Oasis	Oasis Vitrified Pvt Ltd
		Naveen	Murudeshwar Ceramics Ltd.,
		Anuj	Aravid Ceramic Industries Ltd
		Asttra	Asttra Tile and Pavers Company
		Viero	Aparna Tiles
		Aparna Vitero	Aparna Enterprises Ltd
		Asian (AGL)	Asian Granite India Ltd
2	Glazed Wall Ceramic Tiles	NITCO	NITCO Ltd
		RAK	RAK Ceramic India Pvt Ltd.
		Kajaria	Kajaria Ceramic Ltd
		Somany	Somany Ceramic Ltd
		Jhonson	Prism Jhonson Ltd
		Orient Bell	Orient Bell Ltd
		Varmora Granito	Varmora Granito Granite Ptd Ltd
		Oasis	Oasis Vitrified Pvt Ltd
		Naveen	Murudeshwar Ceramics Ltd.,
		Anuj	Aravid Ceramic Industries Ltd
		NITCO	NITCO Ltd
		Eurocon	Eurocon tiles India
3	Cement concrete parking tiles	Dazzle	Dazzle Designer tiles Pvt Ltd
		Ultra	Ultra tile private Ltd.
		Anuj	Aravid Ceramic Industries Limited,
		Hindustan tiles	Hindustan tiles, Ranchi Pune
		Poddar	Paddar Udyog
		Asttra	Asttra tile and pavers company
		NTC	NTC parking tiles
		Armstrong	Armstrong flooring
		LG	LG Hausys India
4	Synthetic Sports Track Flooring	Wondor floor	RMG Polyvinyl India Ltd
		Armstrong	Armstrong flooring India Pvt Ltd
		Forbo	Forbo flooring India Pvt Ltd
5	Linoleum Sports Flooring	Gerflor	Gerflor flooring
		Hewetson	Hewetson India
6	False flooring	Unifloor	Unifloor Inida Ltd

		Unitile	Unitile Office system Pvt Ltd
		Kebao	Inner Space (Distributors)
		Access floor system	Access Floor System
		PINNACLE	PINNACLE
7	Engineered wooden flooring	Armstrong	Armstrong flooring
		Werner	Durafloor Werner GmbH
		Pergo	Redfloor India
		Mikasa Real wood floors	Green Lam Industries
		New wood	New wood india Ltd
8	White Cement	ACC	ACC Cements Ltd
		Birla	Birla Corportion Ltd.
		JK White	JK Cement ltd.
9	Vitrified Paving tiles	PAVIT	PAVIT ceramics Pvt Ltd.
10	Synthetic Carpet tiles	TOLI	TOLI Corporation
		Hollitex	Hollitex Carpet tiles
		Standard Carpets	Standard Carpets
11	Glass Mosaic tiles	Italia	Tile Italia Mosaics Pvt Ltd
		Palladio	Palladio Mosaics
		Bisazza	Bisazza Italy
		Coral	Coral tiles
		Mridul	Mridul tiles
		Birla white	Birla Corporation Ltd
		JK White	J K Cement Ltd
		PAVIT (Eco Tile)	PAVIT Ceramics Pvt Ltd
12	PVC Flooring	LG Hausys	LG Hausys
		Ger flor	Gerflor flooring
		Armstrong	Armstrong world Industires
13	Grass Paver	Unistone	Unistone
		Ultra	Ultra Ltd
SUB HEAD No.12			
ROOFING			
1	Thermal Insulation treatment	Elastospray	BASF
		Pidilite	Pidilite industries
		Rock India Pvt.LTd	Rock India Pvt.Ltd
		Weathercoat Kool & Seal	Berger Paints
2	Roof Tiles (for Temperature reduction)	PAVIT (Eco Tile)	PAVIT Ceramics Pvt Ltd
		Anuj	Aravid Ceramic Industries Ltd
3	Acoustic Insulation	Twingerinsul	U.P.Twigafiber glass Ltd
		Lloyd Insulation	Lloyd Insulation (India) Ltd
		Saint Gobain Gyproc	Saint GobainGyproc India

		Himalyan Acoustics	Himalyan Acoustics
		Knauf	Knauf Gypsum India Pvt. Ltd.
		Anutone	Anutone Acoustics Ltd.
4	UPVC Pipes and fittings (Rain water pipes)	Supreme	Superme Industries Ltd.
		Prince	Prince pipes and fittings Ltd.
		Finolex	Finolex Industries Ltd.
		Prepoly	Premier PVC Industry.
		Astral	Astral polytechnik Ltd.
		Ajay	Ajay Industrial Corporation
		Sharon	Sharon Extrusions.
		Vectus	Vectus
		Prayag	Prayag Polimers (P) Ltd
		Flow Guard	Flow Guard
		Truflow	HSIL Ltd of Hindware
		Ashirwad	Ashirwad PVC Pipes
5	Sandwich PUF panelled roofing sheets	Lloyd Insulation	Lloyd Insulation (India) Ltd
		Jindal Mectec/ Jindal	Meetee Pvt Ltd
		Danpalon	Danapal Light architecture
		GE Plastic	GE Silicones
		Lexan	Lexan Ltd
6	Polycorbanate roof sheets	Danapalon	Danapal Light Architecture
		Alcox	Hindeggan Alcox Ltd
		Polygal	Polygal India Pvt Ltd
		MG Polyplast	MG Polyplas
		GE Lexon	GE Silicones
7	False Ceilings	Aerolite	Andhra Polimers Pvt Ltd
		Anutone	Anutone Accoustics Ltd
		Armstrong	Armstrong World Industries
		Ramco	Ramco Industries Ltd
		Knauf	Knauf Gypsum India Pvt Ltd
		Himalyan Acoustics	Himalyan Acoustics
		Saint Gobain Gyproc	Saint Gobain Gyproc India
		Gridsquare	Gridsquare Ceilings
		USG Boral	USG Boral
		Hunter Dougals	Hunter Dougals
8	False ceiling members (Perimeter, ceiling section, intermediates angles etc)	Armstrong	Armstrong World Industries
		Gypframe steel	British Gypsum
		Knauf	Knauf Gypsum India Pvt Ltd
		Saint Gobain	Saint Gobain Gyproc
		Aerolite	Andhra Polimers Pvt Ltd
		Gridsquare	Gridsquare Ceilings

		Hunter Dougals	Hunter Dougals
9	Non Asbestos fiber sheet (Cement roofing sheets)	Charminar Fortune	HIL Ltd (CK Birla Group)
10	Galvolume sheet for roofing, cladding, sandwhitch panel	Lloyd Metel Craft	Lloyd Insulation (India) Ltd
		Tata Blue Scope	Tata Bluescope
		Bhushan	Bhushan steel
		JSW	JSW
		ESSAR	Essar Group
SUB HEAD No.13 & 14			
FINISHING			
1	Synthetic enamel Paint	Premium gloss enamel	Asian paint Ltd
		Dulex	ICI dulex Ltd
		Nerolac	NerolacPaints Ltd
		Berger	Berger Paints
		Nippon	Nippon Paint India Ltd.
		Surfa Coats	Surfa coats Pvt Ltd
2	Pink primer	Wood primer	Asian paint
		Dulex	ICI dulex
		Nerolac	NerolacKansiaNerolac Paints Ltd.,
		Berger	Berger Paints
		Nippon	Nippon
3	Red Oxide Zinc Chromate primer	High performance yellow metal primer	Asian paint
		Dulex	ICI dulex
		Nerolac	Neroloc Paints Ltd
		Berger	Berger Paints
		Nippon	Nippon
4	Oil Bound Distemper	Tractor Aqalock	Asian paint
		Dulex	ICI dulex
		Nerolac	Neroloc Paints Ltd
		Berger	Berger Paints
		Nippon	Nippon
		mG Polyplast	Neroloc Paints Ltd
5	Acrylic emulsion	Tractor emulsion (premium)	Asian paint
		Dulex	ICI dulex
		Nerolac	Neroloc Paints Ltd
		Berger	Berger Paints
		Nippon	Nippon
		Surfa Coats	Surfa coats Pvt Ltd
6	Water Proof Cement paint	Asian exterial wall primer	Asian paint
		Berger	Berger Paints

		Cem Colour	Snowcem Paints
		Surfa	Surfactoats (India) Pvt Ltd
		ICI DULUX	ICI DULUX
7	Acrylic smooth exterior paint	ACE / Apex	Asian paint
		Dulex	ICI dulex
		Nerolac	Neroloc Paints Ltd
		Berger	Berger
		Nippon	Nippon
		Surfa Coats	Surfa coats Pvt Ltd
8	Premium Acrylic smooth exterior paint with silicon additives	ULTIMA	Asian paint
		Dulex	ICI dulex
		Nerolac	Neroloc Paints Ltd
		Berger	Berger
		Nippon	Nippon
		Surfex Rain Shield	Surfa coats Pvt Ltd
9	Cement based wall putty	J.K.wall putty	J.K. Cement Ltd.
		Birla wall case	Birla Cements Ltd.,
		Asian paints	Asian paints Ltd
		Altek	NCL Alltek&seccold Ltd.
		Birla Hil	HIL Ltd (CK Birla Group)
		Berger	Berger
		Ardex Endura	Ardex Endura India Pvt. Ltd.
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
10	Acrylic Texured Plaster	Apex Duracast	Asian paint
		Spectrum Paints	Spectrum Paints Ltd
		Heritage	Heritage Rajkamal Group
		Asian Paints	Asian Paints
		Neroloc	Neroloc Paints Ltd
11	Ready Mix Cement Plaster	Wall Plast	Wall Plast products Pvt Ltd
		Readi Plast	Ultra tech cement Ltd
		Ramco super plaster melamine	Ramco Cement Ltd
		Gyproc Plasters	Saint Gobain Gyproc India
		Ultra tech	Ultra tech Cement Ltd
		Knauf	Knauf Gypsum India Pvt Ltd
		Ferrous Crete	Ferrous Crete (India) Pvt Ltd
12	Melamine Polish	Asian paints	Asian paints
		Polycure	Polycuremalaysia
		Melamine Gold wudfin	Pidilite industries
13	Fire retardant paint	Jotun	Jotun paints
		Hilti	Hilti India

		Akzonobel	DulexAkzonobel Paints
		Asian Paints	Asian Paints
		STPL Ltd.	STPL Ltd.
14	Anticorrosive bitumastic paint	Berger	Berger paints India Ltd.
		Shalimar	Shalimar paints India Ltd.
		IS 158 bituminous black	Asian Paints
15	Cement Primer	Asian paints	Asian paints
		JK Primaxx	JK Cement Ltd.
		Berger	Berger paints India Ltd.
16	Epoxy Paint	Berger	Berger paints India Ltd.
		Shalimar	Shalimar paints
		Asian Epoxy	Asian Paints
		STP Ltd.	Shalimar Tar Products
		Ardex Endura	Ardex Endura India Pvt. Ltd.
		Mapecoat L24	MAPEI Construction Products India P Ltd.
		Nerolac	Neroloc Paints Ltd
		Sun Epoxy Paint	Sunanda Speciality Coatings Pvt,Ltd
17	Epoxy Coating	Fosroc	Fosroc India
		Laticrete	MYK Laticrete India
		BASF	BASF India Ltd
		Ardex Endura	Ardex Endura India Pvt. Ltd.
		Mapecoat DW25	MAPEI Construction Products India P Ltd.
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Sun Epoxy Paint	Sunanda Speciality Coatings Pvt,Ltd
18	Sililcon coating	Dow corning	Dow corning India
		BASF	BASF India Ltd.
		GE	GE Silicones
		Wacker	Wacker silicones.
19	Textured Acrylic Exterior paint	Asian expoxy	Asian paints
		Berger	Berger Paints India Ltd
		Surfa Coats	Surfa coats Pvt Ltd
		Akzonobel	DulexAkzonobel Paints
		Ebco	Ebco
		Neroloc	Neroloc Paints Ltd
20	Ready made/ Gypsum Plaster	Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Gyproc Cute 100	Gyproc India
		Ultra tech	Ultra tech Cement Ltd
21	PU Enamel Metallic Paints on MS	SKK	SKK Ltd
		Akzonobel	Akzonobel Paints

	Structure & Epoxy paints (Premium Quality)	Asian	Asian paints
		Berger	Berger Paints India Ltd
		MRF	MRF Paints
22	PU Coating (UV Resistant Liquid applied coating)	Smart care	Asian paints
		Pidilite	Pidilite Industries
		BASF	BASF
		Fosroc	Fosroc India
		SIKA	SIKA India
		PU Roofcoat	Berger Paints
23	High end Exterior textures	Allura/ Graniza Range	Asian paints
		SKK Brand	SKK Ltd
		Berger	Berger Paints India Ltd
SUB HEAD No.16			
ROAD WORK			
1	Interlocking Concrete Paver Blocks	Dazzle	Dazzle designer tiles (P) Ltd.
		Ultra	Ultra tiles Pvt Ltd.,
		Shree	Shree Bharat Paver blocks
		Hindustan tiles	Hindustan tiles, Ranchi Pune
		Vyara tiles	VYARA TILES Pvt.Ltd./Surat
		Basant Betons	Basant Betons
		Asttra	Asttra Tile and Pavers Company.
		NITCO (ROCKARD)	NITCO
		BHARAT (NILSAN)	Bharat
		REGENCY	Regency
2	Solar studs/ Median markers	3M	3M Science
		Avery Dennison	Avery Dennison India Pvt Ltd.
		Nikkalite	Nippon carbideIndustires (USA)
3	Polycarbonate Convex mirrors, Rubberised road hump	Unique safety solutions	Unique safety solutions
SUB HEAD No.17			
SANITARY INSTALLATIONS			
1	Mirrors	Modi Guard	Gujarat Guardian Ltd.
		Saint Gobain	Saint Gobain Glass India Ltd.,
		AIS mirror	Asahi India glass Ltd,
		Atul	Atul glass Industries Ltd.,
		CERA	CERA Sanitaryware Ltd.,
2	Vitreous Commodes/	Hindware	HSIL Ltd,
		Roca	ROCA Bath room products

	Washbasin	Parryware	ROCA Bath Pvt. Ltd.,
		Kohler	Kohler world wide
		Somany	Somany Ceramic Ltd,
		Golf Ceramics (Prayag)	Golf Ceramics Ltd
		NEYCER	NEYCER India Ltd.,
		CERA	CERA Sanitaryware Ltd.,
		Rak Ceramics	Rak Ceramics India Pvt. Ltd
		Jaquar	Jaquar Group
		Bathsense	Asian paints
3	Flushing Cistern with EWC/WC	Parryware	ROCA Bath Pvt. Ltd.,
		Shakti	Shakti Enterprises
		Hindware	HSIL Ltd,
		Rak Ceramics	Rak Ceramics India Pvt. Ltd
		CERA	CERA Sanitaryware Ltd.,
		Kohler	Kohler world wide
		Jaquar	Jaquar Group
		Bathsense/TECE	Asian paints Ltd
4	Urinals	Parryware	ROCA Bath Pvt. Ltd.,
		Shakti	Shakti Enterprises
		Hindware	HSIL Ltd,
		CERA	CERA Sanitaryware Ltd.,
		Rak Ceramics	Rak Ceramics India Pvt. Ltd
5	SWR / UPVC Pipes& fittings	Supreme	SupermeIndustries Ltd.
		Astral	Astral polytechnik Ltd.
		Finolex	Finolex Industries Ltd.,
		Ajay	Ajay Industries Ltd.
		Vectus	Vectus Industries Ltd.,
		Prince	Prince Pipes and fittings
		Prayag	Prayag polymers Pvt Ltd.,
		Sentini	Sentini Flopipes, India Private Ltd.
		Birla Hil	HIL Ltd (CK Birla Group)
		Astral	Astral Poly Technik Limited,
		Flowgard	Ashirwad PVC Pipes
		Truflow	HSIL Ltd of Hindware
6	Stainless Steel Kitchen sink	Jhonson	PrisionJhonson Ltd.,
		Diamond	Pheonix Appliances Pvt. Ltd.
		Jindal	Centuarypolytech
		Kingston	Kingston brass India
		Nirali	Jyoti (India) matel Industries Pvt Ltd.
		Hindware	HSIL Ltd

		Silver shine	Blue stone sanitary Industries Pvt. Ltd.
		Prayag	PrayagPolimers (P) Ltd.
		Navkar	Shri Navkar Metals Ltd.
		Futura	Futura Kitchen Sinks India Pvt. Ltd.
		CERA	CERA Sanitaryware Ltd.,
		Nilkanth	Nilkant
		Joyna	Joyna
		Franke	Franke India Ltd.
7	Sensor Based Auto flush Systems	AOS Systems,	AOS Systems
		TOTO	TOTO Ltd
		Parryware,	Parryware
		Hindware,	HSIL Ltd
		Grohe,	Grohe
		Jaquar	Jaquar Group
		Kochier	Kochier
8	Centrifugally Caste (Spun) Iron Soil waste, Pipes and fittings.	Neco	JayaswalNeco Ltd
		RPMF	Raj Pattern Makers and Founders Pvt. Ltd.
		SKF brand	SKF Industries
		HEPCO	Hepco
		Bengal Iron Corporation	Bengal Iron Corporation
		HIF	M/s.Babulal Bajaj Iron Foundry
9	Modular Kitchen/ Wardrobes/ Hardware and accesseries	Sleek	Asian Paints
		Godrej	Godrej & Boyee Co
		Spacewood	Spacewood
		Evoke	Evoke
SUB HEAD No.18			
WATER SUPPLY			
1	G I Pipes	TATA	TATA Steel Ltd.,
		Zenith	Zenith Birla (India) Ltd.
		Jindal	Jindal Pipes Ltd.,
		R.K. Steel	R.K. Steel Manufacturing CompnayPvt. Ltd.,
		HISSAR	HISSAR
		Apollo	APL Apollo
2	PE-AL-PE Composite Pipes	Kitec	Kitec Industries (India) Pvt Ltd
3	G I Pipe fittings	Zoloto	Zoloto Industries
		Unik	Unikmalleables

		HB	HB Industries
		ICS	Sgreesamarth Engineers
		R.K. Steel	R.K. Steel Manufacturing Compnay Pvt. Ltd.,
4	Water supply Valves	Zoloto	Zoloto Industries
		leader	leader valves Ltd.,
		ARCO	Arco valves Pvt. Ltd.,
		Nanda	Nanda Miller company
5	CPVC pipes and fittings	Supreme	Supreme Industries Ltd.
		Finolex	Finolex Industries Ltd.
		Astral	Astral Polytechnik Ltd.,
		Prince	Prince Pipes and fittings Ltd.,
		Ajay	Ajay Industrial corporation
		Prayag	Prayag polymers Pvt Ltd.,
		Vectus	Vectus Industries Ltd.,
		Truflo	HIS Ltd.
		Anil	Anil Thermoplastics Pvt. Ltd.
		Birla Hil	HIL Ltd (CK Birla Group)
		Sentini	Sentini Flopipes India Pvt. Ltd.
		Astral	Astral Poly Technik Limited,
		Ashirwad	Ashirwad PVC Pipes
		Flowgard	Flowgaurd
6	PVC / HDPE water storage tanks	Sintex	Sintex plastic technology Ltd.,
		Vectus	Vectus Industries Ltd.
		Supreme	Supreme Industries Ltd.
7	Water supply fixtures like bibcock, Shower panels CP Brass fixtures like bibcock, angle cock, Piler Cock, mixtures, Showers etc.,	Jaquar	Jaquar Group
		Parryware	Roca 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
		CERA	CERA Sanitaryware Ltd.,
		MARC	MARK Showers
		HINDWare	HSIL Ltd.

8	Air release valve	Kirloskar	Kirloskar brothers Ltd.,
		RBM	AFS Ltd.,
		Kartar	Kartar valves private Ltd.,
9	Centrifugally (Spun) Cast Iron Pipes	Jindal	Jindal saw Ltd.
		Kesoram	Kesoram Industries Ltd.
		Electrosteel	Electrosteel castings Ltd.
10	Spun Cast iron Fittings	Kartar	KartarValves Private Ltd.
		Neco	Jayaswal Neco Ltd
		Electrosteel	Electrosteel castings Ltd.
		Kapilansh Centrifugal	Kapilansh Dhatu Udyog(P)Ltd.
		SKF brand	SINGHALIRON FOUNDARY Pvt. Ltd.,
11	CI double flange sluice valve	Kirloskar	Kirloskar brothers Ltd.,
		RBM	AFS Ltd.,
		Kartar	Kartar valves private Ltd.,
		IVS	Indian valves private Ltd.,
		Zoloto	Zolota Industries
		Leader	Leader valves Ltd.
		BURN	BURN
12	CI double flanged non return valve	Kirloskar	Kirloskar Brothers Ltd.,
		Fluidtech	Fluidtech
		Zolto	Zolota Industries
13	Gun metal Valves	Zolto	Zolota Industries
		Leader	Leader valves Ltd.
		Sant	Sant valves Pvt Ltd,
		Audco	L&T Valves
14	PTMT/PVC water supply fittings like bibcocks, pillar cock, Angle valve, Stop Valve etc.	PEARL	Precision Products
		Prayag	Prayag Polymers (P) Ltd
		Supreme	Supreme Industries
15	Float Valve (Ball Valve)	Prayag,	Prayag Polymers (P) Ltd
		Leader,	Leader valves Ltd.
		Zoloto,	Zolota Industries
		IBP	IBP Industries
		Arco	Arco valves Pvt. Ltd.,
16	HDPE Pipes	DEC	DEC Infrastructure & Project (India) Pvt Ltd
SUB HEAD No.19			
DRAINAGE			
1	*RCC Pipes	Indian Hume Pipe	Indian Hume Pipe Ltd.,
		Jain & Co	Jain spun pipes Co.,
		Lakshmi Sood&Sood	Lakshmi Sood&Sood Pipe Co.

	(*) Madurai spun pipes has been discontinued from the approval list as they have confirmed that they do not possess BIS license.		
2	CI Manhole cover	Neco	JayaswalNeco Ltd.,
		BIC	Bengal iron corporation
		DEC	DEC Infrastructure & Project (India) Prviate Limited.
		HEPCO	Binay Udyog Pvt. Ltd.
3	SFRC Cover and grating	KK	KK Manhole and gratings Co Pvt Ltd.,
		Advent	Advent concrete vision
		Nu-TEC	Nu-Tech concrete products (P) Ltd.,
		Kutty	Kutty Industries
		DEC	DEC I & P India Pvt.Ltd.
4	Plastic Encapsulated Foot Rest	KK India	KK Manhole and gratings Co Pvt Ltd.,
		KGM	KGM Exports .
		Accurate Buildcon	Accurate Buildcon company.
5	Spun cast iron covers & gratings	Neco	JayaswalNeco Ltd
		Jagannath	Sri Jagannath Iron Foundry Pvt. Ltd.
		Kapilansh Centrifugal	Kapilansh Dhatu Udyog(P)Ltd.
		SKF brand	SINGHALIRON FOUNDARY Pvt. Ltd.,
SUB HEAD No.21			
ALUMINIUM WORK			
1	Aluminium doors/windows sections	Hindalco	Hindalco Industries Ltd.,
		jindal	jindalAluminium Ltd.,
		Bhoruka	BhorukaAluminium Ltd.,
		Indal	Indian Aluminium Ltd.,
		Padmavathi Extrusion	Padmavathi Extrusion Private Ltd.
		Hydro	Hydro Extrusion
		Omalco Extrusion	Omalco Extrusion Pvt. Ltd.
		Bhoruka	BhorukaAluminium Ltd.,
2	Aluminium systems/ Anodised aluminium fittings for doors/windows	Define	Define Overseas Pvt. Ltd.
		Schueco	SchuecoIndiaPvt. Ltd.,
		Bhoruka	BhorukaAluminium Ltd.,
		Kawneer	Kawneer India
		Hardima	Hardima sales corporation
		Everite	Everite Agencies
		Sigma	Sigma Corporation
		Jyothi	Jyothi Industries
3	Friction stay hinges	Earl Bihari	Earl Bihari Pvt. Ltd.
		KINLONG	Kinlong Industries

4	EPDM Gaskets	Anand	Anand NVH products (P) Ltd.,
		Roop	Roop Polymers Ltd.,
		Bohra	Bohra rubber Pvt Ltd.,
		Hanu	Hanu Industries
		Ame Rubber	Ame Rubber Industries Pvt Ltd.
5	Silicon Gaskets	Sree Gaurav	Sree Gaurav Rubber Products
6	Masking Tapes	3M	3M
		Sun	Sun
		Wonder polymer	Wonder Tape Industries
		Roop	Roop Polymers Ltd.,
7	Rockwool/ Glasswool insulation	Twigafiber, ,	Twigaifiber glass ltd
		Llyod Insulation	Llyod Insulation Ltd.
		Supereme	Supereme Industries ltd
8	Aluminium Formwork	MFE(MIVAN)	MIVAN
		S-Form	S-Form
		MFS	MFS
SUB HEAD No.22			
WATER PROOFING WORK			
1	Water proofing compound	Fosroc	Fosroc India
		Sika	Sika India
		Dr.Fixit	PidiliteIndustires
		CICO	CICO Technologies Ltd.,
		Impermo	Snowcem paints
		Accoproof	ACC cements Ltd.,
		Ardex Endura	Ardex Endura (India) Ltd
		Alchemica	Alchemica Ltd.
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		MYK Schomburg	MYK Arments range of products
		Penetron	Penetron India Pvt.Ltd
		Smart Care	Asian Paints
		Cementmix Plus/Advanced Latex Plus	Berger Paints
		Shaliplast LW+	STP Ltd
		Mapecure AS/Mapecure E 30/Mapecure ASE	M/s MAPEI Constructions Product India Pvt. Ltd.
		KCPL	Kunal ConchemPvt. Ltd.,
2	Membrane Water proofing system	BASF	BASF India Ltd.,
		STP Ltd	STP Ltd
		Texsa	Texsa India Ltd
		WR Grace	WR Grace Co India Pvt Ltd,

		Dr.Fixit	PidiliteIndustires
		Alchemica	Alchemica Ltd.
		Hydro tech	Hydro tech Ltd
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		MYK Schomburg	MYK Arments range of products
		Asian paints	Smart Care Water Proofing products
		Ardex Endura	Ardex Endura ltd
		Mapeplan TU S20/Planiseal 88/Planiseak 288	M/s MAPEI Constructions Product India Pvt. Ltd.
		Elastorooft PU/Sunroof PU/Sunkote	Sunanda Speciality Coatings Pvt,Ltd
		KCPL	Kunal ConchemPvt. Ltd.,
3	Chemical water proofing system	BASF	BASF India Ltd.,
		MC-Bauchemie	MS-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	PidiliteIndustires
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Smart Care	Asian Paints
		Latexshield 2K/Tankshield PW	Berger Paints
		KCPL	Kunal ConchemPvt. Ltd.,
4	Water stops	Hydrotite	Sika India
		BASF	BASF India Ltd.,
		Dr.Fixit	PidiliteIndustires
		Hydroswell	Sika India
		Ardex Endura	Ardex Endura ltd
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Smart Care	Asian Paints
5	Atactic Polypropylene (APP) Modified Water proof Membrane	STP	Shalimar Tar Products
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Bitumat Co. Ltd,	Bitumat Co. Ltd,
		Pidilite	PidiliteIndustries Ltd,
		Ardex Endura	Ardex Endura
		Hydrotech Ltd.	Hydro tech Ltd
		Smart Care	Asian Paints
		Proshield	Berger Paints
		IWL India Limited	IWL India Limited
6	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
SUB HEAD No.25			
ALUMINIUM COMPOSITE PANELS			
1	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
		Hynadecor	Hynadecor AC Panels, Delhi
		Alstone	Alstone, New Delhi
		Eurobond	Eurobond Pvt.Ltd.,Delhi
2	Structural Glazing	Modi,	Modi Guard
		Saint Gobain	Saint Gobain Glass India Ltd.,
		Glaverbel	Glaverbel India
		Asahi,	Asahi India glass Ltd,
3	Spider Patch Fittings for Structural Glazzing	Dorma,	Dormakaba India Pvt. Ltd
		Sevax	Saint Gobain Glass India Ltd.,
		Kich	Kich India
		Ozone	Ozone Ltd
		Hafele	Hafele Ltd
MISELLANEOUS ITEMS			
1	PVC Perforated Pipes	Rex Polyextrusion	Rex Polyextrusion Ltd,
		Akash Enterprises	Akash Enterprises
		Zenplas Pipes	Zenplas Pipes Pvt. Ltd.,
		Supreme	Supreme Industries
2	Play Equipements	Koochi Play	Koochie Play Systems Pvt.Ltd
		Playworld Systems	Playworld Systems India
3	Structural Sealant	Dow corning	Dow corning India
		Wacker	Wacker Silicones.
		GE	GE Silicones
		Fosroc	Fosroc India
		BASF	BASF India Ltd.,
		STP Ltd.	Shalimar Tar Products
		Asian paints	Smart Care Sealant
4	Poly-sulphide sealant	Dr.Fixit	PidiliteIndustries Ltd,
		Chemetall-Raj	BASF India Ltd.,
		Fosroc	Fosroc India
		Techseal	Choksey Chemical Pvt. Ltd,
		Tuff seal	Bondit construction Chemical

		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		MYK Schomburg	MYK Arments range of products
		Pidilite	Pidilite Industries
		STP Ltd.	Shalimar Tar Products
		Smart Care	Asian Paints
5	Bitumen Impregnated Board	ShaliteX	STP Limited
6	Polyethylene backer rod	Supreme	Supreme Industries
7	Epoxy	CICO Poxy	CICO Technologies Ltd.,
		Fosroc	Fosroc India
		Shalibons	STP Limited
		Ardex	ArdexEndura (India) Pvt. Ltd.,
		Ferrous Crete	Ferrous Crete (India) Pvt. Ltd.
		Asian paints	Asian Paints
8	Weather / Structural Silicon sealent	Dow corning	Dow corning India
		Momentive (GE)	GE Silicones
9	GRC Jali	Terrafirma	Terrafirma GRC Industries
		Ecovision	Ecovision Industries Pvt Ltd
		Mahesh GRC	Mahesh Prefab Pvt Ltd
10	Air Transfer grills	Cool grills	Cool grills , pune
		Systemair India	Systemair India Pvt Ltd
11	Ply wood for concrete shuttering work	Balajee ply	Balajee ply product Pvt Ltd
12	Grass Paver	Unistone	Unistone
		Ultra	Ultra Ltd
13	Puff Insulations	Smart Care	Asian Paints
		Llyod Insulation	Llyod Insulation (India) Ltd
		Fosroc	Fosroc India
		BASF	BASF
		Pidilite	Pidilite Industries Ltd
		Supreme	Supreme Ltd
14	Wood Polymer Composite materials for door frames and shutters, plain/pre laminated boards for wall linings etc	Alstone	Alstone Industries Pvt Ltd, Jaipur
		Ecoste	Ecoste Wood Polymer Composite, Delhi
		Magma	M/s SMP Impex Bangalore
		Echon	Kumar Arch Tech Pvt Ltd, Rajasthan
		Rajasree	Rajeswari Products Pvt Ltd M P
		Qute	Qute Extrusions Pvt Ltd Chennai
		Prominace	Prominace Window Systems
15	Bamboo wood	Epitome Bamboowood Products	Mutha Industries

16	Flooring and wall Paneling	Floor India	Flooring India Company, Panipat Haryana
		Ecorgreen flooring	Jupiter Traders, Banglore.
	Organic microbes for OWC	Prapt Organics	Parapat Organics
		Mygreen Bin	Mygreen Bin
		Shara Eco Products	Shara Eco Products

ANNEUXRE-VI**GUARANTEE TO BE EXECUTED BY THE CONTRACTORS FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF ALUMINIUM DOORS, WINDOWS, VENTILATORS WORK.**

The agreement made this.....day of Two Thousand Twenty-Six and betweenSon of (Hereinafter called the GUARANTOR of the one part) and the President of India (hereinafter called the Government of the other part).

WHEREAS THIS agreement is supplementary to a contract (hereinafter called the Contract) dated..... and made between the GUARANTOR OF THE ONE PART AND the Government of the other part, whereby the contractor inter alia, undertook to render work in the said contract recited structurally stable, leak proof and sound material, workmanship, anodizing, colouring, sealing.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the affect that the said work will remain structurally stable, leak proof and guaranteed against faulty material and workmanship, defective anodizing, colouring and finishing for **two years** from the date after the maintenance period prescribed in the contract.

NOW, THE GUARANTOR hereby guarantees that the work executed by him will remain structurally stable, leak proof and guaranteed against faulty material and workmanship, defective anodizing and colouring for the minimum life of two years to be reckoned from the date after the maintenance period prescribed in the contract.

The decision of the Engineer in Charge with regard to cause of defect shall be final.

During this period of guarantee, the guarantor shall make good all defects to the satisfaction of the Engineer in Charge at his cost and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer in Charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the Guarantor's cost and risk. The decision of the Engineer in Charge as to the cost, payable by the Guarantor shall be final and binding.

That if the guarantor fails to make good all the defects and commits breach thereunder then the guarantor will indemnify the principal and his successors against all loss, damage, cost expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Government the decision of the Engineer in Charge will be final and binding on the parties.

IN WITNESS WHERE OF these presents have been executed by the obligator..... and by for and on behalf of the PRESIDENT OF INDIA on the day, month and year first above written.

SIGNED, sealed and delivered by OBLIGATOR in the presence of :

1..... 2.....
SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA BY in presence of

1..... 2.....

ANNEXURE-VII**GUARANTEE TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS.**

Name of Work: Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai.
SH: Painting works to electrical upgraded quarters, Replacing Damaged wall tiles and floor tiles etc.,

NIT No: 17/EE/C3D/2026-27/CHENNAI/R1

The Agreement made this _____ day of _____ Two thousand Twenty-six and _____ between _____ son of _____ of _____ (hereinafter called the Guarantor of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part).

WHEREAS THIS agreement is supplementary to a contract (hereinafter called the Contract), dated _____ and made between the GUARANTOR OF THE ONE part and the Government of the other part, whereby the Contractor, *inter alia*, undertook to render the buildings and structures in the said contract recited completely water and leak-proof.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said structures will remain water and leak-proof for **five years** from the date of giving of water proofing treatment.

NOW THE GUARANTOR hereby guarantees that water proofing treatment given by him will render the structures completely leak-proof and the minimum life of such water proofing treatment shall be five years to be reckoned from the date after the maintenance period prescribed in the contract.

Providing that the Guarantor will not be responsible for leakage caused by earthquake or structural defects or misuse of roof or alteration and for such purpose.

a) Misuse of roof shall mean any operation which will damage proofing treatment, like Chopping of firewood and things of the same nature which might cause damage to the roof.

b) Alteration shall mean construction of an additional storey or a part of the roof or

Construction adjoining to existing roof whereby proofing treatment is removed in parts.

c) The decision of the Engineer-in-charge with regard to cause of leakage shall be final.

During this period of guarantee, the guarantor shall make good all defects and in case of any defect being found render the building water proof to the satisfaction of the Engineer-in-charge at his cost and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the GUARANTOR'S cost and risk. The decision of the Engineer-in-charge as to the cost, payable by the Guarantor shall be final and binding.

That if the Guarantor fails to execute the water proofing or commits breach there under, then the Guarantor will indemnify the Principal and his successors against all loss, damage, cost, expense or otherwise which may be incurred by him by reason of any default the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and / or damage and /or cost incurred by the Government the decision of the Engineer-in-charge will be final and binding on the parties.

IN WITNESS WHEREOF these presents have been executed by the Obligor _____ and by _____ and for and on behalf of the PRESIDENT OF INDIA on the day, month and year first above written.

Signed, sealed and delivered by Obligor in the presence of -

1. _____

2. _____

Signed for and on behalf of the President of India by _____

In the presence of -1. _____ 2. _____

ANNEXURE-VIII**GUARANTEE BOND FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF EXTERIOR ACRYLIC PAINT.**

Name of Work: Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai.
SH: Painting works to electrical upgraded quarters, Replacing Damaged wall tiles and floor tiles etc.,

NIT No: 17/EE/C3D/2026-27/CHENNAI/R1

This Agreement made on between M/s. (hereinafter called the GUARANTOR of the one part) and the PRESIDENT OF INDIA (hereinafter called the GOVERNMENT of the other part).

WHEREAS THIS agreement is supplementary to contract (herein after called the contract) date and made between the GUARANTOR OF THE ONE PART and the GOVERNMENT OF THE OTHER PART, whereby the contractor inter-alia, undertook to render the exterior painting on the buildings and structures in the said contract recited completely free from defects of any type like peeling off, unevenness in shade, fading of shade, algae / fungus development etc.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said painting work will remain without any defect for four years from the date of applying of acrylic exterior paint.

NOW THE GUARANTOR hereby guarantees that exterior acrylic/ weather proof paint given by him will render the structures completely without any defect and the minimum life of such paint shall be **four years** to be reckoned from the date after the maintenance period prescribed in the contract.

During this period of the guarantee, the guarantor shall make good all defects and in case of any defect being found, render the building exterior paint finish restored to the satisfaction of the Engineer-in-Charge at his cost and shall commence the work for such rectification within seven days from the date of issue of notice from the Engineer-in-Charge calling upon him to rectify the defects, failing which the work shall be got done by the department by some other contractor at the GUARANTOR's cost and risk. The decision of the Engineer-in-Charge as to the cost, payable by the GUARANTOR shall be final and binding.

That if the GUARANTOR fails to executed rectification of defects / or restoring of quality OR commits breach thereunder then the GUARANTOR will indemnify the principal and his successors against all loss, damages, cost, expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and / or damage and / or cost incurred by the GOVERNMENT the decision of the Engineer-in-Charge will be final and binding on the parties.

IN WITNESS WHEREOF these presents have been executed by the Obligor.....AND BY The Executive Engineer, C III D, CPWD, CHENNAI and for and on behalf of the *PRESIDENT OF INDIA* on the day, month and year first above written.

SIGNED, SEALED AND delivered by OBLIGOR in the presence of -

1.
 2.
 SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA BY
 in the presence of -

1.
 2.

Schedule of Quantities					
Name of Work:- Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai. SH: Painting works to electrical upgraded quarters, Replacing Damaged wall tiles and floor tiles etc.,					
SLNo	Description	Qty	Unit	Rate	Amount
1	CEMENT CONCRETE (CAST IN SITU)				
1.1	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
1.1.1	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources).	6.00	cum	9451.32	56708
2	CLADDING WORK				
2.1	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.				
2.1.1	Granite stone slab of colour black, Cherry/Ruby red				
2.1.1.1	Area of slab over 0.50 sqm	4.50	sqm	5698.29	25642
2.2	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3(1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	120.00	sqm	1406.69	168803
3	WOOD AND P. V. C. WORK				

3.1	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
3.1.1	150x10 mm	20.00	each	91.58	1832
3.2	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
3.2.1	125 mm	20.00	each	73.5	1470
3.3	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.	47.00	metre	546.61	25691
3.4	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.				

3.4.1	30 mm thick pre laminated PVC door shutters	14.00	sqm	4064.68	56906
4	FLOORING				
4.1	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement :4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	27.00	sqm	1216.52	32846
5	FINISHING				
5.1	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	4100.00	sqm	173.13	709833
5.2	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.				
5.2.1	Two coats	5160.00	sqm	152.49	786848
5.3	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
5.3.1	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	4100.00	sqm	82.04	336364
5.4	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	4100.00	sqm	21.91	89831
5.5	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				
5.5.1	One or more coats on old work	1250.00	sqm	114.04	142550
6	REPAIRS TO BUILDING				
6.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
6.1.1	With cement mortar 1:4 (1 cement : 4 fine sand)	30.00	sqm	607.29	18219
6.2	Dismantling W.C. Pan of all sizes including disposal of dismantled materials including malba all complete as per directions of Engineer-in-Charge.	10.00	each	148.77	1488
7	Dismantling and Demolishing				

7.1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
7.1.1	Nominal concrete 1:3:6 or richer mix (including equivalent design mix)	6.80	cum	2700.6	18364
7.2	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	10.00	each	124.3	1243
7.3	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	120.00	sqm	60.62	7274
8	SANITARY INSTALLATIONS				
8.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
8.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	5.00	each	7507.85	37539
8.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
8.2.1	W.C. pan with ISI marked white solid plastic seat and lid	5.00	each	7228.45	36142
9	WATER PROOFING				
9.1	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	40.00	sqm	684.56	27382

10	Providing and fixing UPVC trap of self cleansing design with SS grating including necessary adhesive complete, including cost of cutting and making good the walls and floors : 110 mm inlet and 75 mm outlet	10.00	Each	113.03	1130
		Total			2584105

N.I.T. No: 17/EE/C3D/2026-27/CHENNAI/R1					
Name of Work: Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai. SH: Painting works to electrical upgraded quarters, Replacing Damaged wall tiles and floor tiles etc.,					
SCHEDULE OF QUANTITY					
Name of the Contractor					
Sl No.	Name of component	Estimated cost (Rs)	Percentage above or below the estimated cost	% in Figures	Total Cost (Rs)
1	2	3	4	5	6
I	Upgradation of Type IV Quarters of GPRA Campus, Indira Nagar, Chennai. SH: Painting works to electrical upgraded quarters, Replacing Damaged wall tiles and floor tiles etc.,	25,84,105			
	TOTAL	25,84,105			

1. The Column Nos 4&5 are mandatory to be filled by the bidders/ tenderers. If all these columns are left blank, the tender become invalid.
2. The amount in figures in column No.6 shall appear automatically corresponding to the percentage quoted in column No.4 & 5.
3. The tenderer is need to quote the percentage only above or below or at par with the estimated cost to cover all the rates of item covered under the respective packages.
4. The percentage shall be written in 2 (two) place of decimal.
5. If the percentage selection in column No 4 is " At Par", by default the percentage will be considered as " Zero" only. In other words if "At par" is selected in column No.4, then no need to fill columnNo.5
6. The rate for the payment of each item will be - measured quantity x estimated cost of that particular item xtender percentage corresponding package respectively.

Signature of Contractor

Executive Engineer