INDEX

Name of Work: Repair, Operation & maintenance of BARC Townships at Mysuru. SH: Day-to-day Civil Maintenance, including cleaning of water tank & sewer line, rendering services of manpower including materials and Providing housekeeping, sanitation and cosmetic maintenance services by deployment of sweepers/unskilled labourers and supervisors including garbage collection, transportation and disposal, road sweeping, toilet cleaning and upkeep of common areas. Annual Repairs and Maintenance of IEI and fans, DG set, Substation equipments, Street lights, Split AC units etc. for residential colonies of BARC (for 1 year) (Package – II).

Sl. No.	Details	Page no
1)	Index	1 – 2
2)	Percentage rate notice inviting tender (brief details)	3
	PART – A	
3)	Information and instructions for Bidders for e tendering	4 – 7
4)	Notice Inviting e-Tender (CPWD-6)	8 – 13
5)	EMD - Annexure - A	14
6)	Form of Bank Guarantee - Annexure - B	15 – 16
7)	Waterproofing work (Guarantee Bond) - Annexure - C	17 – 18
8)	Section – I – Brief Particulars of the Work	19 – 20
9)	Section – II – Information And Instructions For Bidders	21 – 22
10)	Percentage rate contract for works (CPWD-7)	23 – 25
11)	Proforma of Schedules(Civil and E&M component of works)	26 – 34
12)	List of mandatory machinery, tools and plants for Civil and E&M.	35 – 36
13)	**PART – B**	37
14)	General Information, Requirements & Scope of Work	38
15)	Special Conditions	39 – 46
16)	Additional conditions	47 – 62
17)	Particular Specification	63 – 80
18)	Additional conditions	81
19)	Special Conditions For Engaging Workmen and attending Day to Day Complaints	82 – 83
20)	Security Procedures	84 - 89
21)	List of approved make of materials for Civil works	90 – 99

Sl. No.	Details	Page no
22)	**PART – C**	100
23)	The Minimum eligibility Criteria For E&M Components And Specialized Works Wherever Applicable	101 – 105
24)	General Information, Requirements & Scope of Work	106 – 112
25)	General Terms & Conditions For Electrical	113 – 123
26)	Additional Terms And Conditions For Electrical Installations	124 – 127
27)	Technical Specifications	128 – 148
28)	Additional Terms And Conditions for pump sets	149 – 157
29)	Additional Terms And Conditions for EI sets	158 – 159
30)	Additional Terms And Conditions for Sub-Station & DG Set	160 – 163
31)	Additional Terms And Conditions for AC Units	164 – 165
32)	List of preferred make of materials (for Electrical works)	166 - 169
	PART –D	
33)	Schedule of Quantities (Civil and E&M)	170 - 182

Certified that this NIT contains page numbers from 01 to 182 (One Hundred and Eighty Two pages only)

GOVERNMENT OF INDIA

CENTRAL PUBLIC WORKS DEPARTMENT

PERCENTAGE RATE NOTICE INVITING TENDER (BRIEF DETAILS)

NIT No.	:	**51/MyCD/SE/e-tender/2026-27**
Name of Work	:	**Repair, Operation & maintenance of BARC Townships at Mysuru. SH: Day-to-day Civil Maintenance, including cleaning of water tank & sewer line, rendering services of manpower including materials and Providing housekeeping, sanitation and cosmetic maintenance services by deployment of sweepers/unskilled labourers and supervisors including garbage collection, transportation and disposal, road sweeping, toilet cleaning and upkeep of common areas. Annual Repairs and Maintenance of IEI and fans, DG set, Substation equipments, Street lights, Split AC units etc. for residential colonies of BARC (for 1 year) (Package – II).**
Estimated cost	:	**Rs. 2,78,55,735/- (Civil: Rs. 1,61,43,747/- + Electrical: Rs. 1,17,11,988/-)**
Earnest Money	:	**Rs. 5,57,115/-**
Performance Guarantee	:	(a) 5% of tendered value or Estimated cost Put to Tender (ECPT) (Whichever is higher). (b) Where the tendered amount is less than Eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between Eighty percent (80%) of the ECPT and the tendered amount.
Security Deposit	**:**	2.5% of bid value
Time Allowed	**:**	**12 Months**

The Bid forms and other details can be obtained from the website https://etender.cpwd.gov.in

This NIT for the above-mentioned work amounting to Rs. 2,78,55,735/- (Rupees Two Crore Seventy Eight Lakhs Fifty Five Thousand Seven Hundred and Thirty Five only) is hereby approved.

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING FORMING PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE

The Executive Engineer, Mysore Central Division, CPWD, T. Narasipura Road, Siddarthnagar, Mysore-570011. Phone No. 0821-2473649, Email id:(eecpwdmysore@gmail.com) on behalf of the President of India invites online **Composite percentage** rate bids from approved and eligible contractors of appropriate class and category enlisted with CPWD for the following work.

S. No	Particulars	Particulars
1	**NIT No.**	**51/MyCD/SE/e-tender/2026-27**
2	**Name of work**	**Repair, Operation & maintenance of BARC Townships at Mysuru. SH: Day-to-day Civil Maintenance, including cleaning of water tank & sewer line, rendering services of manpower including materials and Providing housekeeping, sanitation and cosmetic maintenance services by deployment of sweepers/unskilled labourers and supervisors including garbage collection, transportation and disposal, road sweeping, toilet cleaning and upkeep of common areas. Annual Repairs and Maintenance of IEI and fans, DG set, Substation equipments, Street lights, Split AC units etc. for residential colonies of BARC (for 1 year) (Package – II).**
3	**Estimated cost put to bid**	**Rs. 2,78,55,735/- (Civil: Rs. 1,61,43,747/- + Electrical: Rs. 1,17,11,988/-)**
4	**Earnest Money Deposit**	**Rs. 5,57,115/-**
5	**Period of Completion**	**12 Months**
6	**Last date & time of Submission of bid**	Up to **13:00 Hrs. on 12/11/2026**
7	**Time and Date of opening of bid**	At **13:30 Hrs. on 12/11/2026**

1. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he consider himself eligible and he is in possession of all the documents required.
2. The contractor submitting the tender should read the schedule of quantities, additional conditions, additional specifications, particular specifications, CPWD - 6 and other terms and conditions given in the NIT and drawings. The bidder should also read the General Conditions of Contract for CPWD Works 2023(Maintenance works) with up to date correction slips, which is available as Government of India Publications. The NIT is also available with the office of Concerned Executive Engineer's. The contractor should also visit the site of work and acquaint himself with the site conditions before tendering. He should only submit his tender if he considers himself eligible and he is in possession of all the

required documents. The following conditions, which already form part of the tender conditions, are specially brought to his notice for compliance while submitting the tender online. They are requested to comply following instructions.

(i) Tenders with any condition including that of conditional rebates shall be rejected forthwith.

(ii) (a)The successful bidder shall be required to submit a **Performance Guarantee of 5% (Five Percent)** of tendered value or Estimated cost Put to Tender(ECPT) (Whichever is higher).

(b) Where the tendered amount is less than Eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between Eighty Percent (80%) of the ECPT and the tendered amount.

(iii)GST, Work Contract Tax, Labour-Cess etc. as applicable shall be borne by the contractor himself. The contractor shall quote his rates considering all such taxes and hence their quoted rates should be inclusive of all the tax components.

(iv)It will be obligatory on part of the Contractor/ Bidder to tender for and sign the tender documents for all the component parts. The department reserves right to accept tender in full or in part without assigning any reasons.

Criteria for Eligibility

The Contractors, who fulfill the following requirements, shall be eligible to apply.

(i) The enlistment of the CPWD contractors in appropriate class should be valid on the last date of submission of bids.

(ii) 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.

(iii) The tendering jurisdiction for classes III, IV & V will be as per the CPWD enlistment rules 2026.

3. Information and instructions for bidder posted on website shall form part of tender document.

4. The bid documents consisting of indicative architectural 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 in the office of Executive Engineer, CPWD, Mysore and can also be downloaded from website **https://etender.cpwd.gov.in** or **www.cpwd.gov.in** free of cost.

5. But the bid can only be submitted after deposition of original EMD including e-Bank Guarantee 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 Banker's Cheque or Fixed Deposit Receipts or/ and Bank Guarantee including e-Bank Guarantee (**for balance amount as prescribed**) from any of the Commercial Bank towards EMD in favour of **Executive Engineer, CPWD, Mysore**, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/ AE), CPWD and other documents as specified.

EMD shall be made / issued only from the account of the bidder / tenderer submitting the bid/tender. EMD made/ issued from the account other than that of the bidder/ tenderer submitting the bid, shall not be accepted

A part of earnest money (EMD) is acceptable in the form of bank guarantee also. 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 any of commercial bank. The bank guarantee submitted as a part of Earnest Money shall be valid for a period of 90days or more from the last date of submission of bid which is to be scanned and uploaded by the intending bidders.

6. Those contractors who are 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**

7. **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**

8. On opening date, the contractor can login and see the bid opening process. After opening of tenders he will receive the competitor's bid sheets.

9. Contractor can upload documents in the form of JPG format and/or PDF format.

10. Contractor must ensure to quote rate in the column(s) meant for quoting rate in figure 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 tenderer quotes nil rates against each item 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 bid submitted shall become invalid if:
    a. The bidder is found ineligible.
    b. The bidder does not deposit original EMD with division office of any Executive Engineer, CPWD.
    c. The bidder does not upload the scan copies of all the documents stipulated in bid document.
    d. 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
    e. If a tenderer 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 /subhead in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

12. The bid shall be opened on due date and time as mentioned in the tender document.
13. The department reserves the right to reject any prospective application without

assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.

14. List of Documents to be scanned and uploaded within the period of tender submission:

(i)	Insurance Surety Bond, Demand Draft/ Account Payee Banker's Cheque / FDR/ Bank Guarantee including e-Bank Guarantee of any commercial Bank against EMD. Drawn in favour of Executive Engineer, CPWD, Mysore.
(ii)	Copy of receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/AE), CPWD. (**Annexure A**)
(iii)	GST registration Certificate, if already obtained by the bidder. If the bidder has not obtained GST registration as applicable, then shall scan and upload following under taking along with other bid documents. "If work is awarded to me, I/We shall obtain GST registration certificate, as applicable, within one month from the date of receipt of award letter or before release of any payment by the CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by CPWD or GST department in this regard.
(iv)	Copy of valid enlistment establishing approved and eligible contractors of CPWD.
(v)	The agency must upload the ERP training Certificate regarding successful completion of ERP training from ERP portal in the module of RFI.

15. All modifications/ addendus/ corrigendum issued regarding this bidding process, shall be uploaded on website only and shall not be published in any Newspaper.
After submission of the bid the agency can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
While submitting the revised bid, agency can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) in case of item rate tender and / or revise the percentage in case of percentage rate tender, within the last time and date of submission of bid as notified.

Executive Engineer,
CPWD, Mysore
(For and on behalf of President of India)

CPWD–6 FOR e-TENDERING
GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

1. The Executive Engineer, CPWD, Mysore on behalf of President of India invites online percentage rate composite bids from approved and eligible contractors of CPWD for the work **Repair, Operation & maintenance of BARC Townships at Mysuru. SH: Day-to-day Civil Maintenance, including cleaning of water tank & sewer line, rendering services of manpower including materials and Providing housekeeping, sanitation and cosmetic maintenance services by deployment of sweepers/unskilled labourers and supervisors including garbage collection, transportation and disposal, road sweeping, toilet cleaning and upkeep of common areas. Annual Repairs and Maintenance of IEI and fans, DG set, Substation equipments, Street lights, Split AC units etc. for residential colonies of BARC (for 1 year) (Package – II).**
   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 **Rs. 2,78,55,735/- (Civil: Rs. 1,61,43,747/- + Electrical: Rs. 1,17,11,988/-)** This estimate, however, is given merely as a rough guide.
   1.2 Criteria for Eligibility
   The Contractors, who fulfill the following requirements, shall be eligible to apply.
      I. The enlistment of the CPWD contractors in appropriate class should be valid on the last date of submission of bids.
      II. 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.
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 Govt. of India Publication and also available on website **www.etender.cpwd.gov.in or www.cpwd.gov.in**. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **12 Months** from the date of start as defined in **schedule 'F'** or from the date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site for the work is available.
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 Form can be seen from website **www.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 time and date of submission of bid as notified. No post-tender modification is allowed by the tenderers negotiations, if required. In case, any except through tenderer does so, the tender will be rejected and the tenderer will be debarred for future tendering in CPWD for two years by the concerned enlisting authority (in case of CPWD enlisted contractor) and by the SE Mysuru (in case of non-enlisted contractor).
7. While submitting the revised bid, contractor can revise the **percentage rate** items any number of times but before last time and date of submission of bid as notified.
8. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt (FDR), Banker's Cheque or Bank Guarantee including e-Bank Guarantee (for balance amount as prescribed) from any of the Commercial bank **(Drawn in favour of Executive Engineer, CPWD, Mysore payable at Mysore),** 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 deposit of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

This receipt shall also be uploaded to the e-tendering website by the intending bidder upto the specified bid submission date and time.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 Lakh, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any scheduled bank having validity for **Ninety days or more** from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

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 NIT 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 shall have to be submitted physically by the lowest bidder within a week after opening of bid in the office of bid 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.

9. The bid submitted shall be opened at **13:30 Hrs. on 12/11/2026**

10. The bid submitted shall become invalid and e-tender processing fee shall not be refunded if:
    - (i) The bidder is found ineligible.
    - (ii) The bidder does not deposit original EMD with division office of any Executive Engineer, CPWD.
    - (iii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.
    - **(iv)** 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**
    - **(v) If a tenderer quotes nil percentage in percentage 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

a)The successful bidder shall be required to submit a Performance Guarantee of 5% (Five Percent) of tendered value or Estimated cost Put to Tender(ECPT) (Whichever is higher).

(b) Where the tendered amount is less than Eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between Eighty Percent (80%) of the ECPT and the tendered amount.

This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt (FDR) 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 deposit by the contractor shall be forfeited automatically without any notice to the contractor. The Earnest money deposited along with the bid shall be returned after receiving therefore said 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 and Programme Chart (Time and progress) within the period specified in Schedule F.

12. The description of the work is as follows **" Repair, Operation & maintenance of BARC Townships at Mysuru. SH: Day-to-day Civil Maintenance, including cleaning of water tank & sewer line, rendering services of manpower including materials and Providing housekeeping, sanitation and cosmetic maintenance services by deployment of sweepers/unskilled labourers and supervisors including garbage collection, transportation and disposal, road sweeping, toilet cleaning and upkeep of common areas. Annual Repairs and Maintenance of IEI and fans, DG set, Substation equipments, Street lights, Split AC units etc. for residential colonies of BARC (for 1 year) (Package – II)."**

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 (Phone No.: 0821-2473649, Email: eecpwdmysore@gmail.com) or ERP help line no 18001893286 or email ID cpwd.support@techmahindra.com. The e-tendering bidders are also advised not to wait to raise any issue till the last date of submission of bid in their own interest.

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.

Intending bidders 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 their 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 bidders 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 to 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 percentage rate quoted.
16. GST or any other tax applicable in respect of inputs procured by the contractor for this contract shall be payable by the Contractor and Government will not entertain any claim whatsoever in respect of the same. However, component of GST at time of supply of service (as provided in CGST Act 2017) provided by the contract shall be varied if different from that applicable on the last date of receipt of tender including extension if any.
17. The contractor shall not be allowed to participate in the tender for work(s) in the CPWD Zone/ Circle/Division/Sub Division responsible for award and/or execution of contract(s), in

which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Chief 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 gazette officer in the Central Public Works Department or in the Ministry of Housing and Urban Affairs. Any breach of this condition by the contractor would render him liable to be debarred for a period up to 2 years from tendering in CPWD as decided by the accepting authority as mentioned in schedule F and his decision will be excepted from clause 25.

18. 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 previous 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.

19. The bid for the works shall remain open for acceptance for a period of **30 days** from the date of opening of bids,

(i) If any tenderer withdraws his tender within 7 days after last date and time (24 hours basis) 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 after expiry of 7 days after last date and time (24 hours basis) of submission of bids, then the Government shall without prejudice to any other right or 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) Withdrawal of the tender, by the tenderer, shall only be made through e-tender portal. Any other method i.e. through letter / e-mail etc. shall not be considered.

(iv) 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.

20. This notice inviting Bid shall form a part of the contract document. The successful bidders/ 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 **percentage 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 mentioned.

20.1 For Composite Bids

20.1.1 The Executive Engineer in charge of the major component has called bids for the composite work.

20.1.2 The bid document will include following four parts:

Part A: CPWD-6, CPWD-7 including schedule A to F for the major component and minor component of the work, Standard General Conditions of Contract for CPWD 2023 for Maintenance works as amended/ modified upto last date of submission of bids.

Part B: General/ special conditions, particular specifications, list of preferred makes of materials etc., applicable to major component of work.

Part C: General/ specific conditions, specifications, list of preferred makes of

materials etc., applicable to minor component of work.

Part D: Schedule of quantities applicable to major and minor component of the work.

20.1.3 The bidder must associate himself, with agencies as per NIT conditions.

20.1.4 The eligible bidder shall quote percentage below / above / at par of components of the 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. EE of major component will operate part A, part B and part D of the agreement. EE/DDH in charge of minor component(s) shall operate Part C & Part D 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 execution of 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 Engineer-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. The CMB shall be maintained independently by Engineer-in-charge of major and minor components.

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.

20.1.13 It will be obligatory on the part of bidder to sign the contract document for all components before the first payment is released.

20.1.14 In case of reduction in scope of work no claim on account of reduction in value of work, loss of expected profit, consequential overheads etc. shall be entertained.

21. This notice inviting Bid shall form a part of the contract document. The successful bidders/ 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: -

(i) 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 percentage rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.

(ii) Standard C.P.W.D. Form 7 or other Standard C.P.W.D. Form as mentioned.

ANNEXURE - A

Receipt of deposition of Original EMD in the prescribed forms as mentioned in NIT

Receipt No._____dated_____

1.	Name of work	**:**	**Repair, Operation & maintenance of BARC Townships at Mysuru. SH: Day-to-day Civil Maintenance, including cleaning of water tank & sewer line, rendering services of manpower including materials and Providing housekeeping, sanitation and cosmetic maintenance services by deployment of sweepers/unskilled labourers and supervisors including garbage collection, transportation and disposal, road sweeping, toilet cleaning and upkeep of common areas. Annual Repairs and Maintenance of IEI and fans, DG set, Substation equipments, Street lights, Split AC units etc. for residential colonies of BARC (for 1 year) (Package – II).**
2.	NIT No.	**:**	**51/MyCD/SE/e-tender/2026-27**
3.	Estimated Cost	**:**	**Rs. 2,78,55,735/- (Civil: Rs. 1,61,43,747/- + Electrical: Rs. 1,17,11,988/-)**
4.	Amount of Earnest Money Deposit	**:**	**Rs. 5,57,115/-**
5.	Last date of submission of bid	**:**	**Upto 13:00 Hrs. on 12/11/2026**

(*To be filled by / EE at the time of issue of NIT and uploaded along with NIT)

1. Name of Contractor :
2. Form of EMD ……#
3. Amount of original Bank guarantee as Earnest Money Deposit : ……#
4. Date of submission of EMD : ……#

Signature, Name and Designation of
EMD receiving Officer
(EE/AE(P)/AE/AAO)
along with Office Stamp

ANNEXURE - B

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)

1. Whereas the **Executive Engineer, CPWD, Mysore** on behalf of the President of India (hereinafter called "The Government") has invited bids under .....(NIT number)..... dated for..... " **Repair, Operation & maintenance of BARC Townships at Mysuru. SH: Day-to-day Civil Maintenance, including cleaning of water tank & sewer line, rendering services of manpower including materials and Providing housekeeping, sanitation and cosmetic maintenance services by deployment of sweepers/unskilled labourers and supervisors including garbage collection, transportation and disposal, road sweeping, toilet cleaning and upkeep of common areas. Annual Repairs and Maintenance of IEI and fans, DG set, Substation equipments, Street lights, Split AC units etc. for residential colonies of BARC (for 1 year) (Package – II).**" 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, CPWD, Mysore** 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 of **" Repair, Operation & maintenance of BARC Townships at Mysuru. SH: Day-to-day Civil Maintenance, including cleaning of water tank & sewer line, rendering services of manpower including materials and Providing housekeeping, sanitation and cosmetic maintenance services by deployment of sweepers/unskilled labourers and supervisors including garbage collection, transportation and disposal, road sweeping, toilet cleaning and upkeep of common areas. Annual Repairs and Maintenance of IEI and fans, DG set, Substation equipments, Street lights, Split AC units etc. for residential colonies of BARC (for 1 year) (Package – II).**" The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. ..... (Rupees ……..... only) valid upto ..... (date)..... as **Performance Guarantee/Security Deposit/Mobilization Advance** from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.

2. We, ... (indicate the name of the bank) (hereinafter referred 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.

3. 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. ..... (Rupees .....only.

4. 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.

5. 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.

6. 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.

7.This guarantee will not be discharged due to the change in constitution of the Bank or the Contractor.

8. We, ... (Indicate the name of the Bank) …… undertake not t revoke this guarantee except with the consent of the Government in writing.

9. This Bank Guarantee shall be valid up to Rs…….. 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 in 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.....
Name and address

Authorized signatory
Name
Designation
Staff code no.
Bank seal

2.Signature.....
Name and address

*Date to be worked out on the basis of validity period of 90 days from the date of submission of tender.

**ln 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

ANNEXURE - C

GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER-PROOFING WORKS (All Water - Proofing Items).

The agreement made this..... day of…….....(Two Thousand only) …….....
between.....S/o.....(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 building 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 work will remain water and leak proof, for TEN years from the date of completion of work.

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 TEN years to be reckoned from the date of the completion of work.

Provided 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 GUARANTOR fails to execute the water proofing or 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 WHEREOF 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 BEHALF OF THE PRESIDENT OF INDIA BY ..... in the
presence of :-

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

SECTION – I

BRIEF PARTICULARS OF THE WORK

1. Salient details of the work for which bids invited are as under:

Sl. No.	Name of Work	Estimated Cost	Period of completion
1	Repair, Operation & maintenance of BARC Townships at Mysuru. SH: Day-to-day Civil Maintenance, including cleaning of water tank & sewer line, rendering services of manpower including materials and Providing housekeeping, sanitation and cosmetic maintenance services by deployment of sweepers/unskilled labourers and supervisors including garbage collection, transportation and disposal, road sweeping, toilet cleaning and upkeep of common areas. Annual Repairs and Maintenance of IEI and fans, DG set, Substation equipments, Street lights, Split AC units etc. for residential colonies of BARC (for 1 year) (Package – II).	**Rs. 2,78,55,735/- (Civil: Rs. 1,61,43,747/- + Electrical: Rs. 1,17,11,988/-)**	**12 Months**

2. The work is situated at BARC, Mysore under jurisdiction of Executive Engineer, CPWD, Mysore.
3. Work shall be executed according to General Conditions of Contract for Maintenance works 2023 by Central P.W.D.
4. The following provisions, which are not exhaustive have been considered in this estimate: -

Civil works:-

Annual Repair and Maintenance (A/R & M/O) of BARC Township:-

This work covers the annual repair and maintenance of the BARC Township at Yelwal, Kuvempunagar and Lakshmipuram, comprising non-residential buildings having a total plinth area of 10,630 sqm and residential quarters having a total plinth area of 32,935 sqm. The maintenance and repair works shall be carried out in accordance with the applicable provisions of the CPWD Maintenance Manual, 2023, relevant CPWD specifications and the directions of the Engineer-in-Charge.

The scope of work shall include the following:

1. Deployment of skilled, semi-skilled and unskilled manpower, including plumbers, carpenters, sewer men, masons, beldars and other required personnel, along with necessary tools, plants and equipment for carrying out day-to-day maintenance and minor repair works.
2. Periodical cleaning and maintenance of water storage facilities, including underground sumps, overhead tanks (OHTs) and other water storage tanks.
3. Painting and finishing works, comprising internal wall painting with emulsion paint and application of synthetic enamel paint on room doors and windows, wherever required.
4. Cleaning of manholes and gully traps, rectification of seepage in toilets, and execution of other minor civil and sanitary repair works as necessitated during the maintenance period.
5. Clearing and removal of grass, bushes, undergrowth, and jungle vegetation from the township campus and surrounding premises as and when required.
6. Execution of miscellaneous maintenance works such as removal of honeycombs, cleaning of floor and wall tiles, filling and sealing of cracks in walls and ceilings, and removal of algae, fungus, moss, and similar biological growth from walls, terraces, roofs, and other exposed surfaces.
7. Supply of materials of approved make conforming to CPWD specifications and relevant ISI standards for carrying out day-to-day maintenance and repair works.

Cosmetic Maintenance:-

Providing housekeeping, sanitation and cosmetic maintenance services at BARC colonies at Yelwal, Kuvempunagar and Lakshmipuram by deployment of sweepers/unskilled labourers and supervisors including garbage collection, transportation and disposal, road sweeping, toilet cleaning and upkeep of common areas.

1. Deployment of 18 (eighteen) sweepers/unskilled labourers and 2 (two) supervisors for carrying out housekeeping, sanitation and cosmetic maintenance activities at the designated locations.
2. Door-to-door collection of household waste and segregation of wet and dry waste at source, in accordance with the applicable waste management requirements.
3. Transportation of collected waste to the designated collection, processing or disposal facility, including proper handling and disposal in accordance with applicable rules.
4. Sweeping of roads, footpaths and designated open areas; cleaning of toilets and common areas; and maintaining the designated premises in a clean, hygienic and presentable condition throughout the maintenance period.
5. Complete housekeeping, sanitation, and upkeep of services as specified.
6. Supplying and stacking of approved cleaning materials, consumables and necessary tools and equipment required for day-to-day housekeeping and sanitation activities.

E&M Works:-

1. **Running Maintenance of Electrical Installations:** Providing services for the running maintenance of all internal and external electrical installations and equipment, including the operation of water supply pump sets in non-residential and residential buildings, viz. MP Hall, PU School, School, Dispensary, Commercial Shops, Residential Welfare Office, CISF Barracks, and Type A, Type B, Type C and Type D Quarters at Yelwal; CGHS, Laboratory, Dental Clinic, MP Hall, and Type C, Type D and Type D Special Quarters at Kuvempunagar Campus; Guest House and Type E Quarters at Lakshmipuram Campus, BARC, Mysuru, by deploying the required manpower on all days, including Sundays and public holidays.
2. **Special Repair of Electrical Installations:** Carrying out special repair works to electrical installations, including the supply, installation, replacement and fixing of electrical fittings, fixtures, accessories, wiring, cables, protective devices, solar street lights for all the three townships and other electrical equipment.
3. **Supply of Electrical Materials:** Supply of various electrical materials, fittings, fixtures, accessories, cables, protective devices, LED lighting fixtures, fans and other electrical items.
4. **Operation and Maintenance of Substation and DG Sets:** Operation and maintenance of the electrical substation and diesel generator sets, including servicing, repairs, testing, replacement of spare parts, transformer oil topping-up and filtration, silica gel replacement, substation structure servicing and painting, and annual non-comprehensive maintenance of DG sets.
5. **Operation and Maintenance of Split Air-Conditioning Units:** Providing operation and maintenance services for split-type air-conditioning units, including periodic preventive maintenance, routine servicing, attending breakdown complaints, cleaning of filters and coils, checking refrigerant levels and electrical connections, and repairs or replacement of defective components.

SECTION – II
INFORMATION AND INSTRUCTIONS FOR BIDDERS (REGARDING FILLING AND SUBMISSION OF VARIOUS BID DOCUMENTS SPECIFIED HEREINAFTER)

1.0 GENERAL:

1.1 All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. Even if no information is to be provided in a column, a "nil" or "no such case" entry should be made in that column. If any particulars / query is not applicable in case of the bidder, it should be stated as "not applicable". The bidders are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the bidder being summarily disqualified. Bids made in any other method than specified e-tendering process and those received late will not be entertained.

1.2 References, information and certificates from the respective clients certifying suitability, technical knowledge or capability of the tenderer should be signed by an officer not below the rank of Executive Engineer or equivalent.

1.3 The bidder may furnish any additional information which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. He is, however, advised not to furnish superfluous information.

2.0 Definitions

2.1 In this document the following words and expressions have the meaning hereby assigned to them:

2.2 **Employer**: Means the President of India, acting through the Executive Engineer, CPWD, Mysore.

2.3 **Contractor/ Bidder/ Agency/ Firm/ Applicant**: Means the individual, proprietary firm, firm in partnership, limited company private or public or corporation duly enlisted as approved and eligible contractor of CPWD in appropriate class.

3.0 FINAL DECISION MAKING AUTHORITY

The Employer reserves the right to accept or reject any bid and to annul the process and reject all bids at any time, without assigning any reason or incurring any liability to the bidders.

4.0 SCOPE OF WORK

The details of the work given in Section-I are provisional. They are liable to change and must be considered only as advance information to assist the bidder.

5.0 SITE VISIT

The bidder is advised to visit the site of work, at his own cost, and examine it and its surroundings to himself collect all information that he considers necessary for proper assessment of the prospective assignment.

6.0 CRITERIA FOR ELIGIBILITY

The Contractors, who fulfill the following requirements, shall be eligible to apply.

6.1 Criteria for eligibility

(i) The enlistment of the contractors with CPWD in appropriate class and category should be valid on the last date of submission of bids.

(ii) 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.

7.0 AWARD CRITERIA

7.1 The employer reserves the right, without being liable for any damages or obligation to inform the bidder, to:

(a) Amend the scope of work and value of contract.

(b) Reject any or all the applications without assigning any reason.

7.2 Any effort on the part of the bidder or his agent to exercise influence or to pressurize the employer would result in rejection of his bid. Canvassing of any kind is prohibited.

Executive Engineer,
CPWD, Mysore.
(For and on behalf of President of India)

CPWD- 7

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

STATE:	**Karnataka**	**REGION:**	**Bangalore**
BRANCH:	**B&R**	**DIVISION:**	Mysore.

COMPOSITE PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

Tender for the work of: **Repair, Operation & maintenance of BARC Townships at Mysuru. SH: Day-to-day Civil Maintenance, including cleaning of water tank & sewer line, rendering services of manpower including materials and Providing housekeeping, sanitation and cosmetic maintenance services by deployment of sweepers/unskilled labourers and supervisors including garbage collection, transportation and disposal, road sweeping, toilet cleaning and upkeep of common areas. Annual Repairs and Maintenance of IEI and fans, DG set, Substation equipments, Street lights, Split AC units etc. for residential colonies of BARC (for 1 year) (Package – II).**

(i) To be uploaded online by **13:00 Hrs. on 12/11/2026** through website **www.etender.cpwd.gov.in** or www.cpwd.gov.in to Executive Engineer, CPWD, Mysore.

(ii) The Bid to be opened online in presence of tenderers who may be present at **13:30 Hrs. on 12/11/2026** in the office of Executive Engineer, CPWD, Mysore.

T E N D E R

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 and 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 as referred 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 respect of accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for **(30) Thirty** days from the due date of its opening of bid 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 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 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, 12.2(C) and 12.3 of the tender form.

Further, I / We agree that in case of forfeiture of Earnest Money & 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 from the 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 therefrom 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:
Witness: -
Address: -
Occupation

Signature of Contractor .....**.....
Postal Address: - .....**.....

Telephone No. Fax:
E-Mail:

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.....***.....

The letters referred to below shall form part of this contract agreement.

a)

b)

c)

Dated: -..***.....For & on behalf of the President of India.

Signature…… Designation……

*** To be filled in by the Executive Engineer

** To be filled in by the contractor

PROFORMA OF SCHEDULES
(Civil and E&M component of works)

	SCHEDULE 'A' (Schedule of Work)	:	As per NIT Document
	SCHEDULE 'D' Extra schedule for specific requirements / document for the work, if any	:	As per bid document (General/ Specific Conditions Specification of Civil and E&M works)
	SCHEDULE 'E' Reference to General Conditions of contract	:	Applicable GCC is General Conditions of Contract 2023 (Maintenance Works) as modified / corrected up to the previous day of last date of submission of bids
	Name of Work	:	**Repair, Operation & maintenance of BARC Townships at Mysuru. SH: Day-to-day Civil Maintenance, including cleaning of water tank & sewer line, rendering services of manpower including materials and Providing housekeeping, sanitation and cosmetic maintenance services by deployment of sweepers/unskilled labourers and supervisors including garbage collection, transportation and disposal, road sweeping, toilet cleaning and upkeep of common areas. Annual Repairs and Maintenance of IEI and fans, DG set, Substation equipments, Street lights, Split AC units etc. for residential colonies of BARC (for 1 year) (Package – II).**
	Estimated cost of work	:	**Rs. 2,78,55,735/- (Civil: Rs. 1,61,43,747/- + Electrical: Rs. 1,17,11,988/-)**
(i)	Earnest Money	:	**Rs. 5,57,115/-**
(ii)	Performance Guarantee	:	(a) 5% of tendered value or Estimated cost Put to Tender (ECPT) (Whichever is higher). (b) Where the tendered amount is less than Eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between Eighty percent (80%) of the ECPT and the tendered amount.

(iii)	Security Deposit	:	2.50% of tendered value
	SCHEDULE 'F'		
GENERAL RULES & DIRECTIONS			
(i)	Officer inviting tender	:	Executive Engineer, CPWD, Mysore or his successor thereof.
	DEFINITIONS: -		
2(v)	Engineer -in- Charge for Civil component	:	Executive Engineer, CPWD, Mysore or his successor thereof.
	Engineer -in- Charge for E & M component	:	Executive Engineer(E), CPWD, Mysore or his successor thereof.
2(vii)	Accepting Authority	:	Superintending Engineer, CPWD, Mysore or his successor or any other authority as notified by the CPWD Directorate from time to time.
2(x)	Percentage on cost of materials and Labour to cover all overheads and profits	:	15%
2(xi)	Standard Schedule of Rates for Civil	:	Delhi Schedule of Rates–2023 for Civil with correction slips upto last date of submission of tender including extension, if any. (With prevailing cost index and correction factor @ 16.25% applicable for Mysore)
	Standard Schedule of Rates: for E&M	:	Delhi Schedule of Rates–2025 for E&M with correction slips upto last date of submission of tender including extension, if any. (With prevailing cost index 16% applicable for Mysore)
2(xii)	Department	:	Central Public Works Department
9(ii)	Standard CPWD Contract Form	:	Standard CPWD Contract GCC 2023 (Maintenance works) & Form GCC 2023 & CPWD-7 as amended / modified Form 7 modified and corrected up to the previous day of last date of submission of bid.
	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 thereof from the date of issue of letter of acceptance.	:	07 Days
(ii)	Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above.	:	03 Days
	Clause 2		

	Authority for fixing compensation under Clause- 2	:	Superintending Engineer, CPWD, Mysore or successor thereof or any other authority as notified by the CPWD Directorate from time to time.
	Clause 5		
(i)	Authority to convey the decision of shifting of milestone and extension of time.	:	Executive Engineer, CPWD, Mysore or his successor thereof.
(ii)	Authority to decide rescheduling of milestone and extension of time.	:	Superintending Engineer, CPWD, Mysore or his successor thereof
(iii)	Shifting of date of start in case of delay in handing over of site.	:	Superintending Engineer, CPWD, Mysore or his successor thereof
(iv)	Time allowed for execution of work	:	**12 Months**
(v)	Number of days from the date of issue of letter of acceptance for reckoning date of start	:	07 days. The site is complete available. It will deemed to be handed over in the absence of contractor representative at the end of 07 days.

DETAILS OF MILESTONES

The Contractor shall submit a Programme Chart (Time and Progress) for each mile stone along with performance guarantee and get it approved by the Engineer in charge. The Chart shall be prepared in direct relation to the time stated in the Contract Documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Engineer-in-Charge and the Contractor within the limitations of time imposed in the Contract documents and further to ensure good progress during the execution of the work, the contractor shall in all cases in which the time allowed for any work, exceeds one month (save for special jobs for which a separate programme has been agreed upon) complete the work as per mile stones given below.

Sl. No.	**Description of Milestone (Physical)**	**Time allowed in days / months (from date of start)**	**Amount to be with-held in case of non-achievement of mile stone**
1	Setup of Service centre office Along with the staff and all labours to be employed for both Civil and E&M works as mentioned in the tender document and get approval as per protocol/ conditions in this NIT at 'SECURITY PROCEDURES FOR ENTRY OF CPWD CONTRACT WORKERS IN RESIDENTIAL COLONIES OF BARC/RMP, MYSURU'. Supply of all items required for maintenance work and cosmetic maintenance as per the schedule	1 Month	In event not achieving the necessary progress 1% of tendered value of the work will be withheld for failure of each mile stone

Sl. No.	Description of Milestone (Physical)	Time allowed in days / months (from date of start)	Amount to be with-held in case of non-achievement of mile stone
	of quantity. Start of regular day to day maintenance and cosmetic maintenance as per complaints and instruction from JE / AE . Approval of associate agency for E&M works and makes of materials.		
2	Along with the regular day to day maintenance as per complaints and instruction from JE / AE, Cosmetic maintenance , cleaning of UG Sump, water tanks, Over head tanks. Cleaning of storm water drains, manholes, Gully traps, chambers and flushing of building sewer line. Jungle clearing at all BARC town ships. Regular day to day E&M maintenance as per complaints and instruction from JE / AE, special repair works if any fault occurred. Procurement of all in One Solar LED street light fittings and poles etc.	2 Months	In event not achieving the necessary progress 1% of tendered value of the work will be withheld for failure of each mile stone
3	Regular day to day maintenance of civil and E&M works and cosmetic maintenance as per complaints and instruction from JE / AE. Installation and commissioning of all in One Solar LED street light fittings.	6 Months	In event not achieving the necessary progress 1% of tendered value of the work will be withheld for failure of each mile stone
4	Along with the regular day to day maintenance of civil and E&M works and cosmetic maintenance as per complaints and instruction from JE / AE. **Second round** of cleaning of UG Sump, water tanks, Over head tanks.	9 Months	In event not achieving the necessary progress 1% of tendered value of the work will be withheld for failure of each mile stone
5	Regular day to day maintenance of civil and E&M works and cosmetic maintenance as per complaints and instruction from JE / AE.	12 Months	In event not achieving the necessary progress 1% of tendered value of the work will be withheld for failure of each mile stone

Note:

1) **The withheld milestone will only be released when subsequent milestone is achieved within the specified time. The withheld amount will not be interest bearing.**

2) **For EOT and Rescheduling of milestones, provisions as per GCC shall be followed. The Engineer-in-charge may release withheld amount on account of nonachievement of milestone(s) against Bank Guarantee/FDR of an equivalent amount valid upto stipulated date of completion (to be extended further, if required) issued by a commercial bank.**

Time allowed for execution of work **12 Months**.

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 site	From 1st day
Part B	Portions with encumbrances	NA	NA
Part C	Portions dependent on work of other agencies	NA	NA

Clause 5.2	
Nature of Hindrance Register:	Electronic – online system through ERP (as Per DG/MAN/394 dated 28.01.2020 & DG Office OM issued vide No. 13 / 2 / 2023 / WII / DG / 177 dated 09.11.2023) and any other subsequent amendment issued from time to time during the progress of the work.
Clause 6	
Clause 6 A – Mode of measurement	Electronic Measurement Book
Clause 6 B -	Measurement to be recorded jointly by department and agency
Clause-7:	
Gross work to be done together with net payment / adjustment of for advances for material collected, if any, since the last such payment for being eligible to interim payment (for Civil work)	Rs. 40 Lakhs
Gross work to be done together with net payment / adjustment of for advances for material collected, if any, since the last such payment for being eligible to interim payment (For E&M works)	Rs. 29 Lakhs
Note: However, to expedite the progress of work, Engineer in charge, on the request of contractor, may make interim payment(s) even before the net payment limit specified in schedule 'F' is achieved. In such case(s) no interest / compensation shall be recoverable from contractor. Such payment by Engineer in charge shall not be construed as waiver of limit specified in schedule 'F' for subsequent interim payment(s). The contractor shall neither have any right or claim any extra towards delay in interim payments nor any claim for EOT.	
Clause-7A:	
Whether Clause 7A shall be Applicable	Yes, applicable. (DG/CON/Maintenance 2023/13 Dated 31.01.2025) No Running Account Bill shall be paid for the work till the applicable labour licences, registration

	from EPFO, ESIC and BOCW Welfare Board, (whatever applicable) are submitted by the contractor to the Engineer-in-charge.
Clause-8:	
Competent authority to inspect & issue final completion certificate	Major component (Civil Works): Executive Engineer, CPWD, Mysore or his successor thereof.
	Minor component (E&M Works): Executive Engineer(E), CPWD, Mysore or his successor thereof.
Clause 8A:	Applicable
Clause-10A:	
List of Materials to be provided by the contractor at site (Civil and E&M)	All the materials required for execution of works
Clause-10B(i)	
Whether clause 10-B (i) shall be applicable	Not applicable
Clause-10C:	
Whether Clause 10C shall be applicable	Applicable.
Clause-10CC:	
Whether clause 10CC shall be applicable	Not applicable
Clause-11:	
Specifications specified in	Detailed Specifications, Particular Specifications etc. included in this bid document
Specifications to befollowed for execution of work for Civil works	CPWD Specifications 2019 Vol.1and Vol.2 with corrections slips up to the last date of submission/uploading of tender.
Specifications to befollowed for execution of work for E&M works	CPWD General Specification for electrical work Part-I Internal – 2023, Part-II External-2023, Part-IV Sub Station – 2013 and Part VII D.G. Sets - 2013 with corrections slips up to the last date of submission/uploading of tender.
Others	All relevant BIS codes of practice, National Building Standard Code (NBCS), Energy Conservation Building Code (ECBC), Structural & Non- structural elements for Fire safety, Harmonized Guidelines and Standards for Universal Accessibility in India, The Indian Electricity Act, Indian Electricity Rules, Central Electricity Authority rules, Local Bodies & Statutory bodies Norms and all other relevant Codes, Guidelines, Regulations, Recommendations, Norms etc. It includes all volumes and latest version of all publications including all revisions and amendments.

Note:

1. All above specifications shall be applicable along with all correction slips, amendments up to the previous day of the last date of submission/ uploading of Bid.

2. In the event of any discrepancy, ambiguity, variation, etc. in various contract provisions / documents, the following order of precedence shall apply, and the Contractor shall comply accordingly:
   (i) Description of Schedule of Quantities
   (ii) Tender Drawings
   (iii) Particular Specifications and Special Conditions, if any.
   (iv) CPWD Specifications.
   (v) General Conditions of Contract 2023 for construction works of CPWD
   (vi) Indian Standard Specifications of B.I.S., ASTM, BS, National Building Code 2026 or other foreign origin codes mentioned in tender document
   (vii) Manufacturers' specifications & as decided by Engineer-in-charge.
   (viii) Sound Engineering practices. Standard text books.
   (ix) If none of the above is available decision of Engineer-in-Charge with prior approval of accepting authority will be final.

Clause-12:

Type of work		Maintenance work
12.2 (C)	Maximum percentage of quantity of items of work to be Executed beyond which rates are to be determined in accordance With Clause 12.2 (C)	Refer below
Deviation Limit beyond which clauses 12.2 (C) shall apply for all items of building work		No limit

The completion cost of maintenance work shall not exceed 1.5 times of the contract amount. Completion cost includes gross amount of work done, Extra item(s), Deviation(s), Escalation amount admissible as per agreement conditions.

Clause-16:

Competent Authority for deciding reduced rates.	Superintending Engineer CPWD, Mysore or successor thereof.

Clause-18:

List of mandatory machinery, tools & plants to be deployed by the contractor at site (Civil and E&M)	As per direction of Engineer-in-Charge to complete the work

Clause 19:
The contractor shall comply with the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971. The contractor shall also obtain a valid licence under the said Act before the commencement of the work, and continue to have a valid licence until its completion.

Clause 19C, 19D,19G	Applicable.
Clause 19C authority to decide penalty for each default:	Executive Engineer, CPWD, Mysore.
Clause 19D authority to decide penalty for each default	
Clause 19G authority to decide penalty for each default	
Clause 19K authority to decide penalty for each default:	
Clause 19C	Rs. 5000/-
Clause 19D	Rs. 5000/-
Clause 19G	Rs. 5000/-

Enhanced penalty per day for Continues default	Rs. 5000/-
Clause-25:	
Conciliator	The Additional Director General(B), CPWD, Bangalore or successor thereof
Arbitrator Appointing Authority	The Superintending Engineer, CPWD, Mysore or successor thereof.
Place of Arbitration	Bangalore or as decided by the Arbitration Appointing Authority

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

Sl. No.	Minimum Qualification of Technical Representative	Discipline	Designation	Minimum Experience	Number	Rate at which recovery shall be made from contractor in the event of non- deployment.	
						Figures	Words
1	Graduate Engineer or Diploma Engineer	Civil	Project Planning/quality/ Billing Engineer	2 or 5 Years respectively	1	Rs.40,000/- per month	Rs. Forty Thousand only per month.
2	Graduate Engineer or Diploma Engineer	Electrical	Project Planning/quality/ Billing Engineer	2 or 5 Years respectively	1	Rs.30,000/- per month	Rs. Thrity Thousand only per month.

Note:

1) Assistant Engineers retired from government service who are holding Diploma will be treated at par with graduate engineers.
2) Diploma holder with minimum 10 years relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.
3) The Contractor shall submit a certificate of employment of the technical representative(s) (in the form of copy of Form-16 or CPF deduction issued to the Engineers employed by him) along with every Running account bill/final bill and shall produce evidence if at any times so required by the Engineer-in-charge.

Clause-38 :		
i)	Schedule/statement for determining theoretical quantity of cement & bitumen based on Delhi Schedule of Rates	**Delhi Schedule of Rates 2023** with Amendments/ Correction slips up to last date of submission of Tender.
ii)	Variations permissible on theoretical quantities:	
(a)	Cement For works with estimated cost put to tender not more than Rs.25 lakh For works with estimated cost put to tender more than Rs.25 lakhs	3% Plus/Minus 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

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION			
Sl. No.	Description of Item	Rates in figures and words at which recovery shall be made from the Contractor	
		Excess beyond permissible variation	Less use beyond permissible variation)
1.	Ordinary Portland Cement (OPC)	Nil	10% extra rate over the invoice rate at the time of execution of the items involving the materials as specified.
2.	Portland Pozzolana Cement (PPC)		
3.	Steel Reinforcement TMT Bar of all diameters		
4.	Structural steel		

Clause-41

The security deposit of the work shall be refunded if no labour complaint has been received from the labour officer till the due date of its payment as per clause 17 of applicable GCC. If a labour complaint is received during this period, the Engineer-in-charge shall, after issue of notice in this regard to the contractor, deduct the amount required to settle the complaint from his security deposit and refund the balance amount.

TABLE -I

Field Tools for Civil works :

1. Steel tapes – 3m
2. Digital Vernier Calipers
3. Digital Micrometer Screw 25 mm gauge
4. A good quality plumb bob
5. Spirit level minimum 30 cms long with 3 bubbles for horizontal vertical
6. Wire gauge (circular type) disc.
7. Footrule
8. Long nylon thread
9. Rebound hammer for testing concrete
10. Magnifying glass
11. Screw driver 30 cmslong
12. Ball pin hammer, 100gms
13. Plastic bags for taking samples
14. Digital paint thickness meter – 2 Nos.
15. Air content of concrete testing machine - 1 No. if required.
16. Packet concrete penetrometer 0 to 50 kg/sqm - 1 No. if required.
17. Slump cone
18. Vicats apparatus
19. Pumps and pressure gauges for hydraulic testing of pipes
20. Weighing scale platform type 100 Kg capacity
21. Graduated glass measuring cylinder
22. Sets of sieves for coarse aggregate
23. Sets of sieves for fine aggregate
24. Electronic balance 600gx0.1g, 10kg and 50kg
25. Measuring jars 100ml, 200ml, 500ml
26. Gauging trowels 100mm & 200 mm with wooden handle
27. Vernier calipers 12” & 6” size
28. Digital PH meter least count 0.01 mm
29. Digital Micrometer least count 0.01mm
30. Digital paint thickness meter for steel 500 micron range
31. GI tray 600x300x50mm, 300x300x40mm
32. Electric Motor mixer 0.25 cum capacity
33. Screw gauge 0.1mm -10mm, least count 0.05
34. Water testing Kit
35. Motorized sieve shaker
36. Digital Thermometer up to 150° C
37. Iron Weight of 5 kg, 2 kg, 1 kg, 500 gm, 200 gm, 100 gm
38. Hammer 1lb& 2lb

Any other equipment for site tests as outlined in BIS and as directed by the Engineer-in-charge.

List of mandatory machinery, tools and plants to be deployed by the contractor at site under Clause-18 for E&M works		
Sl. No.	**Machinery, tools and plants**	**Qty.**
1.	Steel/Aluminum Ladder 1.5 m to 8 m	As per the direction of Engineer-in-Charge
2.	Chase cutting machines	
3.	Electrical wire drawing equipment	
4.	Torque wrench for nut/bolt/screws	
5.	Conduit die set	
6.	Pipe vice	
7.	Bench vice	
8.	L.T. Megger 500/1000 volts	
9.	Tong Tester	
10.	Multi-meter	
11.	Hydraulically operated & hand Operated crimping machine	
12.	Earth tester	
13.	Portable Ordinary drilling machine	
14.	Portable Hammer drilling machine	
15.	Overhead conduit puller	
16.	Lux Meter	
17.	Loop Impedance Meter	
18.	Insulation tester	
19.	Elco Meter	
20.	Earth Leakage Tester	
21.	Vernier Caliper	
22.	Wire guage	
23.	Hand blower / Vacuum cleaner	
24.	Crimping tool kit	
25.	Pressure testing equipment	
26.	Digital Thermometer	
27.	Anemometer	
28.	Water flow measurement meter across balancing valves	
29.	Duct air leakage testing equipment	
Note : The above list is indicative but not exhaustive. The contractor shall arrange / deploy the required machinery / tools & plants as per the requirement to carry out various E&M works.		

PART – B

Major Component

General Information, Requirements & Scope of Work

A. LOCATION AND CLIMATIC CONDITIONS: The BARC project is located at Yelwala, Mysore Taluk and District. This site is accessible by road on the Mysore – Hunsur Highway and 20 kms. from Mysore City.

B. LOCATION OF BARC TOWNSHIP/COLONIES AT MYSORE: Scope of work involved in this tender is to extend maintenance and revamping of electrical works for the dept. electrical installations at the following working places by the contractor as per the BOQ and this specific technical requirement. They are:

1. YELWAL COLONY: Located at 19 Kms. From Mysore city on the Mysore – Hunsur Highway near the BARC, project site. This major township contains around 404 nos. of LT electrical installations in residential quarters of various types & sizes (multistorey 1+3 floor apartments and individual houses), School, College, Dispensary, Multipurpose hall, LT DG's, Pump house, Bore wells, Sewage water treatment plant, Security buildings, Street Lighting and 4 pole structure transformer yard etc.

2. KUVEMPUNAGAR COLONY: Located at 8 Kms. from Mysore city in Kuvempunagar area of Mysore city. This medium township contains around 109 nos. of LT electrical installations in residential quarters of various types & sizes (9 nos. multistorey 1+3 floor apartments), Dispensary, Multipurpose hall, Pump house, Street Lighting and Bore well etc.

3. LAKSHMIPURAM APARTMENTS: Located at 4 Kms. from Mysore city in Lakshmipuram area of Mysore city. This small township contains around 13 nos. of LT electrical installations in residential quarters including Guest house in a multistorey 1+3 floor apartment, Water Pumps, Street Lighting and a 4 pole structure transformer yard etc.

For all purposes, YELWAL COLONY will be considered as the headquarters for all routine activities and daily reporting. The quoted rates shall be inclusive of transport charges for the contractor's staff for movement from Yelwal colony to other townships or directly to other colonies etc. Dept. will not provide any transport facility for the contractor's staff. Contractor can store necessary tools & tackles and materials in maintenance rooms/maintenance office available at Yelwal colony and Kuvempunagar.

DETAILS OF QUARTERS AT TOWNSHIPS OF BARC, MYSURU							
Township	Type A	Type B	Type C	Type D	Type D Spl.	Type E	Total Quarters
Yelwala	48	191	72	36	0	0	347
Kuvempu Nagar	0	0	81	2	12	0	95
Lakshmipuram	0	0	0	0	0	9	9
Total Quarters	48	191	153	38	12	9	451

SPECIAL CONDITIONS

1. The contractor shall execute the whole work in the most substantial and workman like manner in strict accordance with the specifications, approved design, drawings, particular specifications, special conditions, additional conditions and instructions of the Engineer-in-Charge.

2. 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 leads and lifts involved in execution of work.

3. The contractor shall at his own expense and risk arrange land for accommodation of labour. However, reasonable quantum of the departmental land to the extent available may be allowed to be used for setting up of office, storage of materials, erection of temporary workshops, construction of approach roads to the site of work, including land required for carrying out of all jobs connected with the completion of the work 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 use of land available at the site of work. If it becomes necessary during construction to remove or shift the stored materials, shed, workshop, access roads, etc, to facilitate execution of the work included in this agreement or any other work by any other agency, the contractor shall remove or shift these facilities as directed by the Engineer-in-Charge and no claim whatsoever shall be entertained on this account.

   It shall be deemed that the contractor has 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 carry out true and proper setting out of the work in co-ordination with the Engineer-in-Charge or his authorized representatives and shall be responsible for the correctness of the positions, levels, dimensions and alignments of all parts of the structure. If at any time during the progress of the work any error appears or arises in the position, level, 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 representatives 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 setting out of works.

6. All setting out activities concerning establishment of bench marks, theodolite stations, center line pillars, etc. including all material, 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 Engineer-in-Charge. The materials to be used in 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 and for analysis at such time and to such places as directed by the Engineer-in-Charge. Nothing extra shall be paid for the above operations including the cost of materials required for tests and analysis. All the expenditure to be incurred for testing of samples including. packaging, sealing, transportation, loading, unloading etc. of the samples to be borne by the contractor in all cases

9. The necessary tests shall be conducted in the laboratory approved by the Engineer-in-Charge (All Govt. Institutes, IITS, NITs ,Govt. Engineering colleges, Central, State research Institutes). In case the samples are sent to private NABL/NABH labs, prior approval of ADG shall be required. The samples for carrying out all or any of the tests shall be collected jointly with contractor 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 the contractor or his authorized representative is not present or does not associate himself in the aforesaid operation 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 the Engineer-in-Charge are liable to be considered unauthorized, defective and not acceptable. The Engineer-in-Charge shall have full powers to require the 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 of 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.

12. The work shall be carried out in such a manner so as not to interfere or adversely affect or disturb other works being executed by other agencies, if any.

13. Any damage done by the contractor to any existing works 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 may have 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. The contractor will have to make his own arrangement for obtaining electricity connection from the State Electricity Board or respective local body and make necessary payment 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 contractor shall maintain in good condition all work executed till the completion of entire work entrusted to the contractor under this contract.

18. No payment shall be made to the contractor for damage caused by rain, what so ever during the execution of works and any damage to the work on this account shall have to be made good by the contractor at his own cost.

19. The rates for all items of work, unless clearly specified otherwise, shall include the cost of all labour, materials, de-watering required, if any, and other inputs involved in the execution of the items.

20. Unless otherwise provided in the schedule of quantities, the percentage rates tendered by the contractor shall be all inclusive and shall apply to all heights, depths, leads and lifts.

21. 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.

22. For the safety of all labour directly or indirectly employed in the work the contractors shall, in addition to the provision of CPWD safety code and directions of the Engineer-in-Charge, make all arrangements to provide facility as per the provision of Indian Standard Specifications (Codes) listed below & 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 4138	Safety Code for working in compressed air.
5.	IS 7293	Safety Code for working with construction machinery.
6.	IS 7969	Safety Code for storage and handling of building materials.
7.	IS 4130	Safety code for demolition of buildings.

23. 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.

24. Royalty if any payable and all other incidental expenditure shall have to be paid by the contractor on all the boulders, metal shingle, earth, sand bajri, etc. collected by him for the execution of the work, direct to the concerned Revenue Authority

of the State or Central Govt. and the amount paid shall not be reimbursed in any form whatsoever.

25. Other agencies working at site will also simultaneously execute the works entrusted to them and to facilitate their working, the contractor shall make necessary provisions e.g. holes, openings, etc. for laying/burying pipes, cables, conduits, clamps, hooks, etc. as may be required from time to time. The contractor shall extend full co-operation to other agencies for smooth execution of works by other agencies. The final finishing of the work is to be executed in co-ordination with other agencies as directed by the Engineer-in-Charge.

26. On account of security considerations, there could be some restrictions on the working hours, movement of vehicles for transportation of materials and location of labour camp. The contractor shall be bound to follow all such restrictions and adjust the programme for execution of work accordingly. Nothing extra shall be paid on this account.

27. Stacking of materials and excavated earth shall be done as per the directions of the Engineer-in-Charge. Double handling of materials or excavated earth if required shall have to be done by the contractor at his own cost.

28. In case of construction joints, the cost of applying cement slurry over the concrete surface before fresh concrete is laid as per para 5.4.4.4. of CPWD Specification 2019 is included in the relevant items of the schedule of quantities and nothing extra shall be paid on this account.

29. Unless otherwise specified in the schedule of quantities the rates for all items of work shall be considered as inclusive of working in or under water and/or liquid mud and/or foul conditions including pumping or bailing out liquid mud or water accumulated in excavations during the progress of the work from springs, tidal or river seepage, rain, broken water mains or drains and seepage from subsoil aquifer.

30. Granite slabs for risers and treads of steps, where specified, shall be of single piece of required width and length. No joint shall be permitted. The holes of required shape and size shall be drilled in the single piece stone slabs of treads for fixing balustrades wherever necessary. Pattern of stone slabs for landings of staircase shall be decided by the Engineer-in-Charge. Nothing extra is payable on this account.

31. Granite slabs used for treads of steps shall be provided with three machine cut grooves of size 3mm wide x 2mm deep, 25 mm apart near the nosing of the steps. Nothing extra is payable on this account.

32. To protect the flooring and steps of staircases during construction and until the completion of the work, finished/semi-finished surface of flooring shall be covered with a thick layer of plaster of Paris and this layer shall be maintained in good condition till its removal. The removal of the layer of plaster of Paris and cleaning the surface shall be done as and when decided by the Engineer-in-Charge. After the removal of plaster of Paris and cleaning of the surface, damage, if any, shall have to be made good by the contractor. No extra payment shall be made for protection with plaster of Paris, removal of plaster of Paris, cleaning and making good the damages.

33. In RCC work, to avoid displacement of reinforcement bars in any direction and to ensure proper cover, only factory made round / square type cover blocks should be used.

34. Nothing extra will be paid for centering, shuttering, reinforcement and RCC work for sloped slabs and beams, unless otherwise specified in the item.

35. Steel bars shall be stored about 30 to 45 cms above ground and where the storage is for more than 3 months, a coat of cement wash shall be given to the bars. Nothing extra shall be paid towards cost of application of cement wash.

36. Some restrictions may be imposed by the State Government on quarrying of sand, stones etc, from certain areas. For timely completion of work the contractor shall have to bring such materials from other quarries located elsewhere.

37. In case of any difference in the Hindi version and English version in any of the condition of contract, English version shall prevail.

38. It is the responsibility of the contractor to obtain necessary no objection certificate, wherever required for approval of drawings, water supply, sanitary connection, electricity connection, completion certificate, occupation certificate, clearance from fire department etc. from Central Govt./ State Govt./ Development Authority / Municipal Corporation / Zilla Parishad / Local Bodies/ Village Panchayat or any other organization as applicable.

    Nothing extra shall be paid to the contractor for obtaining such sanctions / approval / clearance from the above bodies. However, necessary requisition and letters required in this regard shall be given by the Department. The required fees and other statutory deposits as may be prescribed by the above bodies shall be borne by the Department.

    Concrete mixers to be used on the work shall have arrangement for weighing water and controlling water cement ratio.

39. If the actual weight of reinforcement and structural steel to be used in the work differs from standard tables the following procedure shall be followed for arriving at the quantity for payment.

    (a) If the actual weight is more than standard weight only standard weight shall be considered for payment.

    (b) If the actual weight is less than standard weight but within the permissible variation, only actual weight shall be considered for payment.

40. The contractor shall arrange to keep the premises neat and clean. The rubbish / malba and unserviceable materials shall be removed on day to day basis.

41. The agency shall have to make his own arrangement access to the site from outside the campus free of cost without affecting the normal working of office and without disturbing the office premises if required by Engineer-in-charge.

42. The alternate arrangements shall be made for existing water supply, electrical supply and sanitary services to the existing buildings / structures free of cost before disturbing the same for the new construction/work.

43. The agency shall take all safety measures at his own cost to avoid any mis-happenings in the building premises and he shall bear all responsibility for such incidences if any during the period of construction.

44. Prevention of Nuisance and Pollution Control:

    a. The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the occupants of the adjacent properties and to the other public in general and to prevent any damage/ inconvenience to them from noise, dust, smoke and other pollutants. The contractor shall make good at his cost and to the satisfaction of Engineer-in-charge any damage to roads, paths, cross drainage works, and or any other properties whatsoever caused due to execution of work or by the traffic brought there on by the contractor.

45. Compliance of directives of Hon'ble National Green tribunal (NGT) dated 04.12.2014 and 10.04.2015 and EIA guidance manual issued in February 2010 with latest updates.

a. The contractor shall comply with following guidelines on the matter in pursuance of orders passed by Hon'ble National Green Tribunal.

1) The contractor shall not store / dump construction material or debris on metaled road.

2) The contractor shall get prior approval from Engineer-in-charge for the area where the construction material or debris can be stored beyond the metaled road. This area shall not cause any obstruction to the free flow of traffic / inconvenience to the pedestrians. It should be ensured by the contractor that no accidents occur on account of such permissible storage.

3) The contractor shall take appropriate protection measures like raising wind breakers of appropriate height on all sides of the plot/area using CGI sheets or plastic and/or other similar material to ensure that no construction material dust fly outside the plot area.

4) The contractor shall ensure that all the trucks or vehicles of any kind which are used for construction purposes/or are carrying construction material like cement, sand and other allied material are fully covered. The contractor shall take every necessary precautions that the vehicles are properly cleaned and dust free to ensure that enroute their destination, the dust, sand or any other particles are not released in air/contaminate air.

5) The contractor shall provide mask to every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris to prevent inhalation of dust particles.

6) The contractor shall provide all medical help, investigation and treatment to the workers involved in the construction of building and carry of construction material and debris relatable to dust emission.

7) The contractor shall ensure that C&D waste is transported to the C&D waste site only and due record shall be maintained by the contractor.

8) The contractor shall compulsory use of wet jet in grinding and stone cutting.

9) The contractor shall comply all the preventive and protective environmental steps as stated in the MoEF guidelines, 2010.

10) The contractor shall carry out on-road-inspection for black smoke generating machinery. The contractor shall use cleaner fuel.

11) The contractor shall use vehicles having pollution under control certificate. The emissions can be reduced by a large extent by reducing the speed of a vehicle to 20 kmph. Speed bumps shall be used to ensure speed reduction. In cases where speed reduction cannot effectively reduce fugitive dust, the contractor shall divert traffic to nearby paved areas.

12) The contractor shall ensure that the construction material is covered by tarpaulin. The contractor shall take all other precaution to ensure that no dust particles are permitted to pollute air quality as a result of such storage.

13) Nothing shall be paid extra for fulfilling of all the above conditions except for the items existing in the schedule of quantities. For such items, work done shall be paid on the basis of the agreement rates.

46. SAFETY PRACTICES

WARNING/ CAUTION BOARDS: All temporary warning / caution boards / glow signage display such as "Construction Work in Progress", "Keep Away", "No Parking", Diversions & protective Barricades etc. shall be provided and displayed during day time by the Contractor, wherever required and as directed by the Engineer-in-Charge. These glow signage and red lights shall be suitably illuminated during night also. The Contractor shall be solely responsible for damage and accident caused, if any, due to negligence on his part. Also, he shall ensure that no hindrance, as far as possible, is caused to general traffic during execution of the work. This signage shall be dismantled & taken away by the Contractor after the completion of work, only after approval of the Engineer – in – Charge. Nothing extra shall be payable on this account

SIGN BOARDS: The Contractor shall provide and erect a display board of size and shape as required and paint over it, in a legible and workman like manner, the details about the salient features of the project, as required by the Engineer-in-Charge. The Contractor shall fabricate and put up a sign board in an approved location and to an approved design indicating name of the project, Client/Owner, Engineer-in-charges, Structural Consultants, Department etc. besides providing space for names of other Contractors, Associate - Contractors and specialized agencies within 15 days from issue of commencement letter. Nothing extra shall be payable on this account.

Necessary protective and safety equipment's such as helmet, safety shoes, gloves etc shall be provided to the inspecting officers of the department, Site Engineers, Supervisory staff, labour and technical staff of the contractor by the Contractor at his own cost and to be used at site.

No inflammable materials including P.O.L (Petroleum, Oil and Lubricant) shall be allowed to be stored in huge quantity at site. Only limited quantity of P.O.L may be allowed to be stored at site subject to the compliance of all rules / instructions issued by the relevant authorities and as per the direction of Engineer –in- Charge in this regard. Also all precautions and safety measures shall be taken by the Contractor for safe handling of the P.O.L products stored at site. All consequences on account of unsafe handling of P.O.L shall be borne by the Contractor.

47. Any dispute arising out of this bid including dispute related to encashment of any Bank Guarantee/ FDR etc, shall be subject to the jurisdiction of courts of Karnataka State only.

48. By uploading schedule of quantities, the bidder is deemed to have read, understood and accepted all terms and condition of this tender document.

Compliance on Construction & Demolition Waste Management Rules, 2016as available at Web address – www.moef.gov.in.

49. Use of Manufactured Sand (M-sand) is allowed in all items of work including plastering works. The specification for the M-sand used for plastering works shall be confirmed as per para 3.1.3.3 and 3.1.3.4 of CPWD Specification 2019.

50. The contract has to comply to all the safety protocols issued by the competent authority towards COVID 19.

51. Dismantled items has to be stacked or deposited as per the location earmarked by the client department or Engineer-in-charge.

52. Unless otherwise specified, nothing extra, what so ever shall be paid for executing the work as per the above SPECIAL CONDITIONS from serial number 1 to 57.

ADDITIONAL CONDITIONS

1.0 General

1.1. Except for the items, for which Particular Specifications are given or where it is specifically mentioned otherwise in the description of the items in the schedule of quantities, the work shall generally be carried out in accordance with the "CPWD Specifications 2019 Vol. I & II" with upto date correction slips, additional / Particular Specifications, Architectural / structural drawings and as per instructions of Engineer-in-Charge.

The several documents forming the tender are to be taken as mutually complementary to one another. Detailed drawings shall be followed in preference to small scale drawings and figured dimensions in preference to scaled dimensions.

Should there be any difference or discrepancy between the description of items as given in the schedule of quantities, particular specifications for individual items of work (including special conditions) and I.S. Codes etc., the following order of preference shall be observed:

(x) Description of Schedule of Quantities
(xi) Particular Specifications and Special Conditions, if any.
(xii) CPWD Specifications.
(xiii) General Conditions of Contract 2023 for Maintenance works of CPWD
(xiv) Indian Standard Specifications of B.I.S., ASTM, BS, National Building Construction Standard 2026 or other foreign origin codes mentioned in tender document
(xv) Manufacturers' specifications & as decided by Engineer-in-charge.
(xvi) Sound Engineering practices. Standard text books.

If none of the above is available decision of Engineer-in-Charge with prior approval of accepting authority will be final.

"In the event of any variation/ discrepancy in the drawings, specifications and tender documents etc. the decision of the Engineer-in-charge shall be final binding and conclusive on the contractor and in the case the contractor have any doubt and the same should be got clarified immediately from the Engineer-in-charge and no claim of the contractor shall be entertained thereafter. Moreover, the agency is not allowed to take benefit out of any clerical/ grammatical mistake in the standard clauses/Schedule of Quantities/Specifications etc. being used in the agreement".

1.2 The works to be undertaken by the contractor shall inter alia include the following:

i. Preparation of detailed SHOP drawings and AS BUILT drawings wherever applicable.

ii. Obtaining of Statutory permissions where-ever applicable and required.

iii. Pre-commissioning tests as per relevant standard specifications, code of practice, Acts and Rules wherever required.

iv. Warranty obligation for the equipment and/or fittings/fixtures supplied by the contractor.

Contractor shall provide all the shop drawings or layout drawings for all the coordinated services before starting any work or placing any order for any of the services etc. These shop drawings/layout drawings shall be got approved from Engineer-in-charge before implementation and this shall be binding on the contractor. The contractor shall submit material submittals along with material

sample for approval of Engineer-in-charge prior to delivery of material at site.

1.3 Any reference made to any Indian Standard Specifications, shall imply to the latest version of that standard, including such revisions / amendments as issued by the Bureau of Indian Standards up to last date of receipt of tenders. The Contractor shall keep at his own cost all such publications including relevant Indian Standard Codes applicable to the work at site.

1.4 All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested before covering.

1.5 The proposed work is a prestigious work and quality of work is of paramount importance. Contractor shall have to engage well experienced skilled labour and deploy modern T&P and other equipment to execute the work to provide the desired quality.

The Contractor shall depute Site Engineer & skilled workers as required for the work. He shall submit organization chart along with details of Engineers and supervisory staff. It shall be ensured that all decision making powers shall be available to the representatives of the Contractor at work site itself to avoid any likely delays on this account. The Contractor shall also furnish list of persons for specialized works to be executed for various items of work. The Contractor shall identify and deploy key persons having qualifications and experience in the similar and other major works, as per the field of their expertise. If during the course of execution of work, the Engineer-in-Charge is of the opinion that the deployed staff is not sufficient or not well experienced; the Contractor shall deploy more staff or better-experienced staff at site to complete the work with quality and in stipulated time limit.

1.6 Samples including brand / quality of materials and fittings to be used in the work shall be got approved from the Engineer-in-Charge, well in advance of actual execution and shall be preserved till the completion of the work.

1.7 Equipment like concrete pumps excavators/Transit mixers etc. shall be allowed to be moved away from the site only after obtaining written opinion of Engineer-in-Charge that the same are no longer required at site of work.

1.8 The contractor, his authorized representative, workmen etc. shall strictly observe orders pertaining to fire precautions prevailing in the area.

1.9 The tenderer shall see the approaches to the site. In case any approach from main road is required at site or existing approach is to be improved and maintained for cartage of materials by the contractor, the same shall be provided, improved and maintained by the contractor at his own cost.

1.10 Contractor shall take all precautionary measures to avoid any damage to adjoining property. All necessary arrangement shall be made at his own cost.

1.11 The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night, speed limit boards, red flags, red lights and providing barriers. He shall be responsible for all damages and accidents caused to work due to negligence on his part. No hindrances shall be caused to traffic, during the execution of the work.

1.12 The contractor shall take instructions from the Engineer-in-Charge regarding

collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, compound wall, services etc. are to be constructed.

1.13 The contractor shall provide at his own cost suitable weighing, surveying and leveling and measuring arrangements as may be necessary at site for checking. All such equipment shall be got calibrated in advance from laboratory, approved by the Engineer-in-Charge. Nothing extra shall be payable on this account.

1.14 The contractor shall establish, maintain and assume responsibility for grades, lines, levels and bench marks. He shall report any errors or inconsistencies regarding grades, lines, levels, dimensions to the Engineer-in-Charge before commencing work. Commencement of work shall be regarded as the contractor's acceptance of such grades, lines, levels and dimensions and no claim shall be entertained at a later date for any errors found.

1.15 If at any time, any error in the respect of setting out appears during the progress of the work, the contractor shall, at his own expense rectify such error if so required, to the satisfaction of the Engineer-in-Charge.

a) Though the site levels may be indicated in the drawings, the contractor shall ascertain himself and confirm the site levels with respect to GTS bench mark from the concerned authorities.
b) The approval by the Engineer-in-Charge of the setting out by the contractor shall not relieve the contractor of any of his responsibilities of any inaccuracy creeping in.

1.16 The contractor shall be entirely and exclusively responsible for the horizontal, vertical and other alignments, the level and correctness of every part of the work and shall rectify effectively any errors or imperfections therein. Such rectifications shall be carried out by the contractor at his own cost to the instructions and satisfaction of the Engineer-in-Charge.

1.17 The Contractor shall carry out survey of the work area, at his own cost, setting out the layout of building in consultation with the Engineer-in-Charge & proceed further. Any discrepancy between the architectural drawings and actual layout at site shall be brought to the notice of the Engineer-in-charge. It shall be responsibility of the Contractor to ensure correct setting out of alignment. Total station survey instruments shall only be used for layout, fixing boundaries, and centre lines, etc., along with theodolites. Nothing extra shall be payable on this account.

1.18 Contractor shall provide permanent bench marks, flag tops and other reference points for the proper execution of work and these shall be preserved till the end of work. All such reference points shall be in relation to the levels and locations, given in the Architectural and plumbing drawings.

1.19 Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to approved manufacturers specifications where CPWD Specifications are not applicable. The contractor should get the materials (fixtures/fittings) tested from approved labs wherever required at his own cost.

1.20 The work shall be carried out in accordance as per the directions of Engineer-in-Charge. The discrepancy, if any, shall be brought to the notice of the Engineer-in-Charge for immediate decision before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and/ or incomplete information and no claim,

whatsoever shall be entertained on this account.

1.21 The contractor should submit the shop drawing of staging and shuttering for approval of Engineer- in-Charge before actually commencing the execution of work under the item. Nothing extra shall be payable on this account.

1.22 Other agencies may also simultaneously execute and install the works and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings, trenches etc. as may be required for such related works (for which inserts, sleeves, brackets, conduits, base plates, clamps etc. shall be available as specified elsewhere in the contract) and the contractor shall fix the same at the time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.

1.23 All material shall only be brought at site as per program finalized with the Engineer-in-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.

1.24 The contractor shall procure the required materials in advance so that there is sufficient time for testing of the materials and approval of the same before use in the work.

1.25 Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services. In case temporary supporting of such services is required to facilitate the work, the same shall be done by the contractor at no extra cost.

In case the existing services are to be shifted permanently, then before dismantling the existing services, alternate/diversion of service lines has to be laid by the contractor so that there is no interruption in use of existing services. The contractor has to plan the alternate suitable route for diversion/shifting of service lines and get the same approved from the Engineer-in-Charge before starting shifting of services. Nothing extra shall be paid except the payment of dismantling and laying of new service lines as per conditions of contract.

1.26 All fossils, coins, articles of value of antiquity, structures and other remains or things of geological or archaeological interest discovered on project location during excavation/construction shall be the property of the Government, and shall be dealt with as per provisions of the relevant legislation. The contractor will take reasonable precaution to prevent his workmen or any other persons from removing and damaging any such article or thing. He will, immediately upon discovery thereof and before removal acquaint the Engineer-in-charge of such discovery and carry out the official instructions of Engineer-in-charge for dealing with the same, till then all work shall be carried out in a way so as not to disturb/ damage such article or thing.

1.27 The contractor shall be responsible for the watch and ward / guard of the buildings, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the client department. No extra payment shall be made on this account.

1.28 The contractor shall be fully responsible for the safe custody of materials brought by

him/ issued to him even though the materials may be under double lock key system.

1.29 For construction works which are likely to generate malba / rubbish, contractor shall dispose of malba, rubbish &other unserviceable materials and wastes at his own cost to the notified specified dumping ground and under no circumstances these shall be stacked / dumped even temporarily, outside the construction premises.

1.30 The rates quoted by the Contractor are deemed to be inclusive of site clearance, setting out work, profile, establishment of reference bench mark(s), taking spot levels, construction of all safety and protection devices, barriers, preparatory works, working during monsoon, working at all depths, height, lead, lift and location etc until / unless specified otherwise and any other incidental works required to complete this work. Nothing extra shall be payable on this account.

1.31 For works below ground level the contractor shall keep that area free from water. If dewatering or bailing out of water is required the contractor shall do it and nothing extra shall be paid except otherwise provided in the items of schedule of quantities.

1.32 Results of sub-surface investigations conducted at site are indicated in extracts of the report attached. This information about the soil and sub-soil water conditions is being made available to the Contractor, in good faith, for guidance only and the Contractor is advised to obtain details directly as may be considered necessary by him before quoting rates in the tender. No claim whatsoever on account of any discrepancy between the sub-surface strata conditions that may be actually encountered at the time of execution of the work and those given in these tender documents, in-accuracy or interpretation thereof shall be entertained from the Contractor under any circumstances. The ground water table is a variable condition and the information given in the report is only indicative and it may vary from time to time.

1.33 Any legal or financial implications resulting out of disposal of earth shall be sole responsibility of the contractor. Nothing extra over the schedule shall be paid on this account.

1.34 The Contractor shall keep himself fully informed of all acts and laws of the Central & State Governments, all orders, decrees of statutory bodies, tribunals having any jurisdiction or authority, which in any manner may affect those engaged or employed and anything related to carrying out the work. All the rules & regulations and bye-laws laid down by Collector / MC etc. and any other statutory bodies shall be adhered to, by the contractor, during the execution of work. The Contractor shall also adhere to all traffic restrictions notified by the local authorities. It is clarified that the extra sewerage charges (one time charges for commencement of work) required to be paid to the Municipal Corporation / other statutory bodies shall be paid by the department and need not be considered by the contractor. The water charges (for municipal water connection as well as tanker water) shall be borne by the contractor. Also, if the contractor obtains water connection for the drinking purposes from the municipal authorities or any other statutory body, the consequent sewerage charges shall be borne by the contractor. All statutory taxes, levies, charges (including water and sewerage charges, charges for temporary service connections and / or any other charges) payable to such authorities for carrying out the work, shall be borne by the Contractor. The Contractor shall arrange to give all notices as required by any statutory / regulatory authority and shall pay to such authority all the fees that is required to be paid for the execution of work. He shall protect and indemnify the Department and its officials & employees against any claim and /or liability arising out of violations of any such laws, ordinances, orders, decrees, by himself or by his employees or his authorized representatives. Nothing extra shall be payable on these accounts. The fee payable to statutory authorities for obtaining the various permanent service connections and Occupancy Certificate for the building shall be borne by the

Department.

1.35 Royalty at the prevalent rates shall be paid by the Contractor as per the terms of supply between them on all materials such as boulders, metals, sand and bajri etc. collected by him for the execution of the work, directly to the revenue authority of the state government concerned. Nothing extra shall be payable on this account.

1.36 No foreign exchange shall be made available by the Department for importing (purchase) of equipment, plants, machinery, materials of any kind or any other items required to be carried out during execution of the work. No delay and no claim of any kind shall be entertained from the Contractor, on account of variation in the foreign exchange rate.

1.37 The Contractor shall conduct his work so as not to interfere with or hinder the progress of the work being performed by other Contractors or by the Engineer-in-Charge. As far as possible, he shall arrange his work and place, so as not to interfere with the operations of other Contractors or shall arrange his work with that of the others, in an acceptable and coordinated manner and shall perform it in proper sequence.

1.38 The Contractor shall assume all liability, financial or otherwise in connection with this contract and shall protect and indemnify the Department from any and all damages and claims that may arise on any account. The Contractor shall indemnify the Department against all claims in respect of patent rights, royalties, design, trademarks of name or other protected rights, damages to adjacent buildings, roads or members of public, in course of execution of work or any other reasons whatsoever, and shall himself defend all actions arising from such claims and shall indemnify the Department in all respect from such actions, costs and expenses. Nothing extra shall be payable on this account.

1.39 The Contractor shall make all necessary arrangements for protecting from rains, the work already executed and for carrying out the further work, during monsoon including providing and fixing temporary shelters, protections etc. Nothing extra shall be payable on this account. Also, no claims for hindrance shall be entertained on this account.

1.40 In case of flooding of site on account of rain or any other cause and any consequent damage, whatsoever, no claim financially or otherwise shall be entertained not withstanding any other provisions elsewhere in the contract agreement. Also, the Contractor shall make good, at his own cost, the damages caused, if any.

1.41 The Contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupants of the adjacent properties and to the public in general. The Contractor shall take all care, as not to damage any other adjacent property or other services running adjacent to the plot. If any damage is done, the same shall be made good by the Contractor at his own cost and to the entire satisfaction of the Engineer-in-Charge. The Contractor shall use such methodology and equipment's for execution of the work, so as to cause minimum environmental pollution of any kind during construction, to have minimum construction time and minimum inconvenience to road users and to the occupants of the buildings on the adjacent plot and public in general, etc. He shall make good at his own cost and to the entire satisfaction of the Engineer in Charge any damage to roads, paths, cross drainage works or public or private property whatsoever caused, due to the execution of the work or by traffic brought thereon, by the Contractor. Further, the Contractor shall take all precautions to prevent any pollution of streams and waterways. All waste or superfluous materials shall be carted away by the Contractor, entirely to the satisfaction of the Engineer-in-Charge. Utmost care shall be taken to keep the noise

level to the barest minimum so that no disturbance as far as possible is caused to the occupants / users of adjoining buildings. No claim what so ever on account of site constraints mentioned above or any other site constraints not specifically stated here, shall be entertained from the Contractor. Therefore, the Contractors are advised to visit site and get firsthand information of site constraints. Accordingly, they should quote their tenders. Nothing extra shall be payable on this account.

1.42 All ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, temporary ramp required to be made for working at the basement level, temporary structure for plants and machineries, water storage tanks, installation and consumption charges of temporary electricity, telephone, water etc. required for execution of the work, liaison and pursuing for obtaining various No Objection Certificates, completion certificates from local bodies etc., protection works, barricading, testing facilities / laboratory at site of work, facilities for all field tests and for taking samples etc. during execution or any other activity which is necessary (for execution of work and as directed by Engineer-in-Charge), shall be deemed to be included in rates quoted by the Contractor, for various items in the schedule of quantities. Nothing extra shall be payable on these accounts. Before start of the work, the Contractor shall submit to the Engineer-in-Charge, a site / construction yard layout, specifying areas for construction, site office, positioning of machinery, material yard, cement and other storage, steel fabrication yard, site laboratory, water tank, etc.

1.43 The Contractor shall display all permissions, licenses, registration certificates, bar charts, other statements etc. under various labour laws and other regulations applicable to the works, at his site office.

1.44 No tools and plants including any special T&P etc. shall be supplied by the Department and the Contractor shall have to make his own arrangements at his own cost. No claim of hindrance (or any other claim) shall be entertained on this account.

The Contractor shall be allowed to use the facilities available at site & arranged by the associate- Contractors and other agencies working at site for smooth execution of the work. The Contractor shall be

1.44.1 Allow to use of scaffolding already erected, toilets, sheds etc.

1.44.2 Properly co-ordinate their work with the work of other Contractors.

1.44.3 Provide control lines and benchmarks to his associate-Contractors and the other Contractors.

1.44.4 Provide electricity and water at mutually agreed rates.

1.44.5 Provide hoist and crane facilities for lifting material at mutually agreed rates.

1.44.6 Co-ordinate with other Contractors for leaving inserts, making chases, alignment of services etc. at site.

1.44.7 Adjust work schedule and site activities in consultation with the Engineer-in-Charge and other Contractors to suit the overall schedule completion.

1.44.8 Resolve the disputes with other Contractor amicably and the Engineer-in-Charge shall not be made intermediary or arbitrator. The contractor shall indemnify the Department against any claim(s) arising out of such disputes.

1.45 The contractor shall have to arrange water of desirable quality for the construction purpose for which he may have to install RO plant at site or might have to bring/ purchase water from outside as per decision of Engineer-in-charge. Nothing extra shall be paid on this account.

1.46 Unless otherwise specified in the schedule of quantities or CPWD specifications, the rates for respective items shall be all inclusive and apply to the following:-

(i) All lifts & all heights, floors including terrace, leads and depths.
(ii) All labour, material, tools and plants and other inputs involved in the execution of the item.
(iii) Any of the conditions and specifications mentioned in the tender documents.
(iv) Providing sunk flooring in bath-rooms, kitchen, etc.
(v) Any legal or financial implications resulting out of disposal of earth, if any.
(vi) Payment of Royalty at the prevailing rates, if any, on the boulders, metal, shingle, sand and bajri etc. or any other material collected by him for the work direct to revenue authorities.
(vii) Performance test of the entire installation(s) before the work is finally accepted.
(viii) Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been built in the items.
(ix) All incidental charges for cartage, storage and safe custody of materials brought to site.

1.47 In case of any Epidemic / Pandemic / Natural Calamity occurring in the premises of Construction, the Contractor /Agency shall strictly abide by the statutory instructions / Act / Rules issued by the Government of India /State Government / Local body. All Instructions / directions shall be adhered to on this account and nothing extra shall be Paid.

2. QUALITY ASSURANCE/ TESTING OF MATERIALS

2.1. GENERAL: -

2.1.1 Quality assurance program shall submitted by the contractor and got approved from the SE Mysore.

2.1.2 All incidental expenditure on security, construction of cement godown, access roads, arrangement of water, electricity etc. to be incurred by the agency for arranging, installing and operation of Batch Mix Plant shall be deemed to have been included in his quoted rates and no claim whatsoever will be tenable on this account.

2.1.3 With each Running Bill, the details of test carried out shall be submitted by the contractor.

2.1.4 Samples of materials required for testing shall be provided free of charge by the contractor. The cost of tests to be carried out on all material in approved labs shall be borne by the contractor.

a. All the test in field lab setup at construction site shall be carried out by the Engineering Staff deployed by the contractor. The percentages of test as per specification, is to be witnessed by the representative of the Engineer-in-charge.

b. All the entries in the registers will be made by the designated Engineering staff of the contractor and same should be regularly reviewed by JE/AE/EE/SE.

c. Contractor shall be responsible for safe custody of all the test registers.

d. Submission of copy of all Test Registers, Material at Site Register along with each Running Account Bill and Final Bill is mandatory. These registers should be duly checked in Division Office & receipts of registers should also be acknowledged by Accounts Officer by signing the copies and register to confirm receipt in division office.

e. Extensive testing of the materials used for construction is a pre-requisite for attaining high quality of the work. This shall also require specialized tests, physical, chemical, ultrasonic, x- ray and various other types of tests which cannot possibly be carried out in a site laboratory. These tests also require specialized personnel who regularly deal in such testing. Therefore, the need arises for carrying out the tests in outside laboratories. These laboratories may be in the Govt. sector, Semi Govt. or Private sector. The outside private laboratories shall be short listed before- hand by EE and approval obtained from ADG. In case of laboratories in the private sector, the past record and reputation of the laboratory must invariably be given due consideration. The infrastructure in these laboratories can also be inspected before they are short listed.

However, testing of material in IIT or NIT Lab / Govt. Engineering College, may be allowed by Executive Engineer provided these labs have all necessary facility to carry out the required tests.

2.1.5 If any ultrasonic pulse velocity/load testing or special testing is to be done for concrete whose quality is doubtful, the cost of the same shall be borne by the contractor.

2.1.6 In case there is any discrepancy in frequency of testing as given in list of mandatory tests and that in individual sub-heads of work as per CPWD Specifications higher of the two frequencies of testing shall be followed and nothing extra shall be payable on this account.

2.1.7 Special attention shall be paid towards line and level of plastering, exposed smooth surface of RCC members by providing fresh shuttering plates, sealing shuttering joints, accurate joinery work in wooden doors and windows, thinnest joints in stone/ tiling / cladding work, non-hollowness in floor and dado tiles work, protection of scratches over flooring by impounding layer of plaster of Paris, water tight pipe linings, absence of hollow vertical joints in brick masonry, proper compaction of filled up earth etc. to achieve an Institution of International standards and up keeping of quality assurance shall be of paramount importance, as such.

5.2 SAMPLE OF MATERIALS: -

5.2.1 All materials and fittings brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work. If a particular brand of material is specified in the item of work in Schedule of Quantity, the same shall be used after getting the same approved from Engineer-in-Charge. Wherever brand / quality of material is not specified in the item of work, the contractor shall submit the samples as per List of Preferred Makes as stipulated in this NIT document of Part B for approval of Engineer-in-Charge. For all other items, ISI Marked materials and fittings shall be used with the approval of Engineer-in- Charge. Wherever ISI Marked material / fittings are not available, the contractor shall submit samples of materials / fittings manufactured by firms of repute conforming to relevant Specifications or IS codes for the approval of Engineer-in-Charge.

5.2.2 To avoid delay, contractor should submit samples as stated above well in advance so as to give timely orders for procurement. If any material, even though approved by Engineer-in-Charge is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk &cost.

5.2.3 BIS marked materials except otherwise specified shall also be subjected to quality test besides testing of other materials as per the specifications described for the item/material. Wherever BIS marked materials are brought to the site of work, the contractor shall, furnish manufacturer's test certificate or test certificate from approved testing laboratory to establish that the material procured by the contractor for incorporation in the work satisfies the provisions of specifications relevant to the material and / or the work done.

BIS marked items (except cement & steel for which separate provisions have been made in para 4.0) required on the work shall be got tested, for only important tests, which govern the quality of the product, as decided by the Engineer-in-Charge. The frequency of such tests (except the mandatory test) shall be 5% of the frequency as specified in BIS. For mandatory test, frequency shall be as specified in the CPWD Specifications.

5.2.4 For certain items, if frequency of tests is neither mentioned in the CPWD Specifications & BIS, then tests shall be carried out as per decision of Engineer-in-Charge.

3.0 CEMENT (TO BESUPPLIED BY THE CONTRACTOR).

3.1. Contractor has to produce manufacturers test certificate and challan for each lot of cement procured at site.

3.2 CEMENT: -

3.2.1 The contractor shall procure 43 grade ordinary Portland Cement conforming to IS: 8112 / Portland Pozzolana Cement conforming to IS: 1489 (Part-1) /Portland slag cement conforming to IS:455: 1989 (including latest amendments) as required in the work, from reputed manufacturers of cement such as ACC, Ultratech, Vikram, Shree Cement, Ambuja, Jaypee Cement, Century Cement & J.K. cement or from any other reputed cement Manufacturer having a production capacity not less than one million tonnes per annum as approved by the Additional Director General for that Region.

3.2.2 Samples of cement arranged by the contractor shall be taken by the Engineer-in-Charge and got tested in accordance with provisions of relevant BIS Codes. The cement for such testing purpose shall be supplied by the contractor free of charge. In case test results indicate that the cement arranged by the contractor does 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 cost of tests shall be borne by the contractor.

3.2.3 The cement godown of the capacity to store a minimum of 2 months requirement shall be constructed by the contractor at site of work for which no extra payment shall be made. Double lock provision shall be made to the door of cement godown. The keys of one lock shall remain with Engineer-in-Charge or his authorized representative and keys of the other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of the cement godown. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge or his authorized representatives.

3.2.4 Cement shall be brought at site in bulk supply as per requirement or as decided by the Engineer-in-Charge.

3.2.5 OPC, PPC, Portland slag cement bags shall be stored in separate godowns. Separate godowns for tested cement and fresh cement (under testing) to be constructed by the contractor at his own cost as per sketches given in C.P.W.D Specifications having weather-proof roofs and walls. The size of the cement godown is indicated in the sketches for guidance. The actual size of godown shall be as per site requirements and nothing extra shall be paid for the same. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with Engineer-in-Charge or his authorized representative of the work and that of other lock with the authorized agent of the contractor at the site of work so that the cement is issued from godown according to the daily requirement with the knowledge of both parties. The account of daily receipt and issue of cement shall be maintained in a register in the prescribed proforma and signed daily by the contractor or his authorized agent and Engineer-in-Charge or his authorized representative in token of its correctness. The day to day receipt and issue accounts of different grade/brand of cement shall be maintained separately in the standard proforma by the contractor or his authorized representative which shall be duly signed by the authorized representative of the Engineer-in- Charge before issue to the work on day to day basis.

The contractor shall be responsible for the watch and ward and safety of the cement go-downs. The contractor shall facilitate the inspection of the cement go-downs by the Engineer-in-Charge at any time.

3.2.6 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 Clause-38 of the contract and shall be governed by the conditions laid therein.

3.2.7 If the quantity of cement actually used in the work is found to be more than the theoretical quantity of cement including authorized variation, nothing extra shall be payable to the contractor on this account. In the event of it being discovered that, the quantity of cement used is less than the quantity ascertained as herein before provided (allowing variation on the minus side as stipulated in Clause-38), the cost of quantity of cement not so used shall be recovered from the contractor as specified in schedule. Decision of the Engineer-in-Charge in regard to theoretical quantity of cement which should have been actually used as per the schedule and recovered at the rate specified, shall be final and binding on the contractor.

For non-scheduled items, the decision of the Superintending Engineer regarding theoretical quantity of the cement, which should have been actually used, shall be final and binding on the contractor.

3.2.8 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.

3.2.9 In case the contractor brings surplus quantity of cement the same shall be removed from the site after completion of work by the contractor at his own cost after approval of the Engineer-in- Charge.

3.2.10 Cement, which is not used within 90 days from its date of manufacture, shall be retested at approved laboratory. Until the results of such tests are found satisfactory, it shall not be used on the work.

3.2.11 The cement godown of the capacity to store a minimum of 2000 bags of cement or as decided by SE in charge of the work in case less than 100MT cement is required for the work, shall be constructed by the contractor at site of work for which no extra payment shall be made. For small maintenance works, NIT approving authority shall decide the requirement of the storage/godown

3.2.12 The contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge at any time.

3.2.13 The cement shall be got tested by the Engineer-In-Charge and shall be used on the work only after satisfactory test results have been received.

3.2.14 In case the cement consumption is less than theoretical consumption including permissible variation, recovery at the rate so prescribed shall be made after ensuring structural soundness and stability on the basis of testing. In case of excess consumption no adjustment need to made.

3.2.15 The damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-In-Charge. If he does not do so within 3 days of receipt of such, the Engineer-In-Charge shall get it removed at the cost of the contractor.

3.2.16 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. The stacks shall be in rows of 2 and 10 bags high with minimum of 0.6m clear. Bags should be placed horizontally continuous in each line. Actual size / shape of godown shall be as per site requirement and nothing extra shall be paid on this account. The decision of Engineer-in-charge regarding capacity shall be final.

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

3.2.18 Chief Engineers/CPMs/ADGs/SDGs may change the brand of Cement depending upon availability in local market but conforming to grade mentioned in the NIT and only with ISI mark, if warranted. The name of manufacturers should be finalized after taking into consideration the availability and cost factor. Conditions for cement proposed to be procured in silos may be approved by the NIT approving authority along with mode of storage, measurement, testing and grade requirements.

4.0 SECRECY

4.1 The contractor shall take all steps necessary that all persons employed on any work in connection with the contract have notice that the Indian Official Secrets Act 1923 applies to them & will continue so to apply even after the execution of such works under the contract.

4.2 The contract is confidential and must be strictly confined to the contractor's own use (except so far as confidential disclosure to sub-contractors or suppliers as necessary) and to the purpose of the contract.

4.3 All documents, copies thereof & extracts there from furnished to the contractor shall be returned to the Engineer-in-Charge on the completion of the work / works or the earlier determination of the contract.

5.0 LABOUR AND SECURITY

5.1 Contractor has to follow the security requirement of the campus and obtain necessary entry passes for the labour and vehicles and follow security checks at entry / exit gates, restriction on movement of vehicle, restricted timings of working etc. The Department however shall assist the contractor in obtaining such passes for movement of vehicles and labour. No claim whatsoever shall be entertained on account of delay in entry of vehicles and labour including restrictions in working hours, if there is any.

5.2 The contractor shall employ only Indian citizens after verifying their antecedents and loyalty. The contractor shall, on demand submit list of his agents, employees and work people concerned & shall satisfy as to the bonafides of such people.

5.3 The contractor & his work people shall observe all relevant rules regarding security promulgated in which work is to be carried out by the Controlling Administrative Authority of the campus/area (hereinafter referred to as "Administrator").

5.4 The contractor, his representative, workman shall be allowed to enter through specified gates & timing as laid down by the controlling authority. They shall be issued an identity card or an individual pass in accordance with the standing rules & regulations & they should possess the same while working. The contractor shall be responsible for the conduct & actions of his workmen, agents / representatives.

5.5 The agency shall carry out the work as per the timings of availability of the premises as per the instructions of the Engineer-in-charge. However, if the work is carried out in more than one shift or at night, no claim on this account shall be entertained.

5.6 Normally contractor's material / vehicles etc. shall be allowed to move in / go-out as per the instructions of the Engineer-in-charge and no movement of material / vehicles out of site of work shall be allowed during night hours unless specific permission is obtained from the Engineer-in-charge. However, such permission may be denied due to security or logistic reasons".

5.7 In case if a separate entry has been allowed, the contractor has to make all arrangement for making a separate entry gate and barricading of the working area to segregate/separate the same from other areas. All these have to be done by the contractor at his own cost including safeguarding any untoward incident in the restricted area due to separate entry gate and barricading arranged by the contractor. No extra amount on this account shall be payable by the department.

ENGAGING SPECIALISED AGENCIES FOR WORKS:-

6.1 The Contractor shall engage specialized agencies having adequate technical capability and experience of having executed at least one work of similar items of 80% or more magnitude or two works of similar items of value minimum 60% or three works of similar items of value minimum 40% individually for executing the following items of the work and/or any other items of work where specialized firm is required to be engaged as per contract conditions. For determining the required magnitude, the value of the work executed may be suitably enhanced with the prevailing approved cost index.

6.2 The Specialized agency for the work if any shall be got approved from the Engineer-in-Charge well before actual commencement of the item of work. The contractor shall submit the list of specialized agencies proposed to be engaged by him along with necessary performance certificates, within 07 days from the date of issue of acceptance letter to substantiate technical capability and experience of the agency for prior approval of the Engineer-in-Charge.

~~6.3 For Internal Electrical Installation work as contained in the Electrical component work under Section VII, the Electrical Agency to be engaged as an associate electrical contractor for the Internal E.I/External E.I work should be enlisted contractor of CPWD in appropriate class as per the value of the work. The firm shall possess License of appropriate Voltage issued by Karnataka State Electrical Inspectorate / Licensing Board. The firm will be required to submit the credentials of the associate electrical contractor including their registration documents, electrical contractor license apart from submission of the MOU. However, contractor shall submit MOU to Executive Engineer (Elect.) in-charge, signed with eligible Electrical Contractor/Agency along with consent letter of Electrical Agency at least 7 days before the last date of submission of Performance Guarantee. It will be obligatory on the part of main contractor to sign the tender documents for all the components.~~

6.4 If the main contractor fails to associate agency/agencies for execution of minor components of work within prescribed time or furnishes incomplete details or furnishes details of ineligible agencies even after the tenderer is given due opportunity, the entire scope of such component of works shall be withdrawn from the tender and the same shall be got executed by the Engineer-in- Charge at the risk and cost of the main contractor.

6.5 Same milestones shall be applicable for all components of work.

6.6 For the specialized item of water supply and sanitary installations; the contractor shall engage such vendors/installers as approved by the manufacturers.

7 **INSPECTION OF WORKS:**

7.1 In addition to the provisions of relevant clauses of the contract, the work shall also be open to inspection by the Superintending Engineer, Mysore and other senior officers of CPWD in addition of the Engineer-in-charge and his authorized representative. Contractor or his responsible representative duly accredited in writing, should be present to receive the orders and instructions during such inspections at usual working hours and at all times at which reasonable notices of the intention is served by the Engineer-in-charge or other officers, to visit/inspect the work as stated above.

8.0 **FINAL TESTING OF THE INSTALLATION**

The Contractor shall demonstrate trouble free functioning of all the Civil installations and services. The Engineer-in-Charge or his authorized representatives shall carry out final inspection of the various Civil services and installations. Any defect(s) noticed during demonstration shall be rectified by the Contractor at his own cost to the entire satisfaction of the Engineer-in-Charge. Nothing extra shall be payable on this account.

9. INSURANCE POLICIES

9.1 Before commencing the execution of work, the Contractor shall, without in any way limiting his obligations and liabilities, insure at his own cost and expense against any damage or loss or injury, which may be caused to any person or property, at site of work. **The Contractor shall obtain and submit to the Engineer in charge proper Contractor All Risk Insurance Policy for an amount equivalent to 110% of the contract amount for this work, with Engineer in charge as the first beneficiary. The insurance shall be obtained in joint names of Engineer in charge and the Contractor (who shall be second beneficiary). Also, he shall indemnify the Department from any liability during the execution of the work. Further, he shall obtain and submit to the Engineer-in- Charge, a third party insurance policy for maximum Rs. 20 lakh for each accident, with the Engineer in charge as the first beneficiary. The insurance shall be obtained in joint names of Engineer in charge and the Contractor (who shall be second beneficiary).** The Contractor shall, from time to time, provide documentary evidence as regards payment of premium for all the Insurance Policies for keeping them valid till the completion of the work. The Contractor shall ensure that Insurance Policies are also taken for the workers of his Sub-Contractors / specialized agencies also. The contractor including subcontractors shall provide comprehensive group insurance cover for all the workers and their supervisory staff deployed at site. The details of insurance cover to be provided shall be submitted by the contractor / associate agencies within 30 days of the date of start. In case of a default, appropriate policy shall be got done by the safety monitoring committee and double the fee of the policy shall be recovered from the next bill of the contractor. Without prejudice to any of its obligations and responsibilities specified above, the Contractor shall within 30 days from the date of letter of acceptance of the tender and thereafter at the end of each quarter submit a report to the Department giving details of the Insurance Policies along with Certificate of these insurance policies being valid, along with documentary evidences as required by the Engineer in charge. **No work shall be commenced by the Contractor unless he obtains the Insurance Policies as mentioned above. Also, no payment shall be made to the Contractor on expiry of insurance policies unless renewed by the Contractor.** Nothing extra shall be payable on this account. No claim of hindrance (or any other claim) shall be entertained from the contractor on these accounts.

PARTICULAR SPECIFICATIONS

1.0 EARTH WORK:-

Earth work shall be executed as per CPWD specifications 2019, Volume-I with upto date correction slips. In addition to the following specifications shall also be followed:

1.2 EARTH WORK FOR MAJORWORKS

1.2.1 Excavation shall be undertaken to the width of the foundation/Retaining wall footing including necessary margins for construction operation as per drawing or directed otherwise. Where the nature of soil or the depth of the trench and season of the year, do not permit vertical sides, the contractor at his own expense shall put up the necessary shoring, strutting and planking or cut slopes with or without steps, to a safer angle or both with due regard to the safety of personnel and works and to the satisfaction of the Engineer. Only measurement of plan area of excavation shall be permitted for payment.

1.2.2 All the major excavation shall be carried out by mechanical excavator. No extra payment shall be made for that.

1.2.3 The contractor shall make at his own cost all necessary arrangements for maintaining water level, in the area where works are under execution low enough so as not to cause any harm to the work shall be considered as inclusive of pumping out or bailing out water, if required, for which no extra payment shall be made. This will include water coming from any source, such as rains, accumulated rain water, floods, leakages from sewer and water mains subsoil water table being high or due to any other cause whatsoever. The contractor shall make necessary provision of pumping, dredging bailing out water coming from all above sources and excavation and other works shall be kept free of water by providing suitable system approved by the Engineer-in- charge. In order to avoid possibility of basement floor of main building being getting uplifted/damaged due to water pressure, the contractor shall lower the ground water table below the proposed foundation level by boring tube wells all around the proposed building using well point sinking method or any suitable method as approved by Engineer-in-charge. Sub soil water table shall be maintained at least 50 cm. below the P.C.C. level during laying of P.C.C. water proofing treatment, laying of basement raft and beams including filling of earth/sand under the basement floor. The water table shall not be allowed to rise above base of raft level until completion of outer retaining walls including water proofing of vertical surface of walls and back filling along the walls upto ground level and until the structure attains such height to counter balance the uplift pressure. However, the contractor should inspect the site and make his own assessment about sub-soil water level likely to be encountered at the time of execution and quote his rates accordingly. Rate of all items are inclusive of pumping out or bailing out water, if required. Nothing extra on this account whatsoever shall be paid to him. The sequence of construction shall be got approved by the Engineer-in-charge.

1.2.4 The contractor shall take all necessary measures for the safety of traffic during construction and provide, erect and maintain such barricades including signs, markings, flags, lights and flagman, as necessary at either end of the excavation/embankment and at such intermediate points as directed by the Engineer-in-charge for the proper identification of construction area. He shall be responsible for all damages and accidents caused due to negligence on his part.

1.2.5 The contractor shall provide suitable barricading with suitably painted single row of G.I. Sheets about 3'- 0" wide (90 cms) nailed or bolted with wooden poles spaced 2 to 3 metre apart and each pole 1.6 m to 2 m long 8 cm. to 10 cm. dia. The poles will be embedded in mobile iron pedestal rings suitably framed for giving stable support as per direction of the Engineer-in-charge. All management (including watch and ward) of barricades shall be the full responsibility of the contractor. The barricades shall be removed only after completion of the work or part of the work. The contractor's rate shall include all above items of work and nothing extra shall be paid to the contractor over and above his quoted rates.

2. RCC WORK(ORDINARY)

2.1 The work shall be done in accordance with CPWD Specifications (Vol-I) 2019 with upto date correction slips.

2.2 Water Cement ratio for Ordinary RCC work shall not be more than 0.5-. Contractor shall use concrete mixture of proper design having arrangement for measuring water for mixing of concrete.

3. FORMWORK

3.1 The work shall be done in general as per CPWD Specifications.

3.2 Only M.S. centering / shuttering and scaffolding material unless & otherwise specified shall be used for all R.C.C. work to give an even finish of concrete surface. However, marine-ply shuttering in exceptional cases as per site requirement may be used on specific request from contractor to be approved by the Engineer-in-Charge. But nothing extra shall be paid on this a/c.

3.3 Nothing extra shall be paid for the centering and shuttering, circular in shape whenever the formwork is having a mean radius exceeding 6m in plan.

3.4 Nothing extra shall be paid for grid beams and the corresponding slabs having clear span more than 1.20metres.

3.5 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 except the places where different type of flooring is provided in the same room.

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

3.6 Steel shuttering as approved by the Engineer-in-Charge shall be used by the contractor. Minimum size of shuttering plates shall be 600mm x 900mm except for the case when closing pieces are required to complete the shuttering panels.

Dented, broken, cracked, twisted or rusted shuttering plates shall not be allowed to be used on the work. The shuttering plates shall be cleaned properly with electrically driven sanders to remove any cement slurry or cement mortar or rust. Proper shuttering oil or de-bonding compound shall be applied on the surface of the shuttering plates in the requisite quantity before assembly of steel reinforcement.

3.7 REINFORCEMENT:-

3.7.1 The reinforcement shall be done as per CPWD Specifications.

3.7.2 The rate of item of reinforcement of RCC work includes all operations including straightening, cutting, bending, welding, binding with annealed steel wire or welding and placing in position at all the floors with all leads and lift complete as per CPWD Specifications.

3.7.3 The contractor shall provide approved type of support for maintaining the bars in position and ensuring required spacing and correct cover of concrete to reinforcement as called for in the drawings, spacer blocks of required shape and size. Chairs and spacer bars shall be used in order to ensure accurate positioning of reinforcement. Spacer blocks shall be casted well in advance with approved proprietary pre-packed free flowing mortars (Conbextra as manufactured by M/s Fosroc Chemicals India Ltd. or of approved equivalent) of high early strength and same colour as of surrounding concrete. However, Cover Guard Bars shall also be used to maintain proper cover of RCC Columns in addition to spacer blocks as mentioned above. Pre-cast cement mortar/concrete blocks/blocks of polymer shall not be used as spacer blocks unless specially approved by the Engineer-in-charge, rate of RCC items is inclusive of cost of such cover blocks & Cover Guard Bars.

3.8 PRE-CAST RCCWORK

3.8.1 The work shall be done in accordance with CPWD Specifications.

3.8.2 Pre-cast reinforced concrete units shall be of grade or mix as specified. Provision shall be made in the mould to accommodate fixing devices such as hooks etc. and forming of notches and holes. Each unit shall be cast in one operation. A sample of the unit shall be got approved from Engineer-in-charge before taking up the work.

3.8.3 Pre-cast units shall be clearly marked to indicate the top of member and its location.

3.8.4 Pre-cast units shall be stored, transported and placed in position in such a manner that these are not damaged.

3.8.5 The compaction of the concrete shall be done by vibrating, table or external vibrator, as approved by Engineer-in-charge. The rate quoted for the item shall include the element for framework and mechanical vibration.

3.8.6 Rate for item includes cost of all materials. labour, and all operations involved. Cost of M.S. frames, lugs including their welding, lifting hooks is also included.

3.8.7 In the item of providing and fixing precast reinforced cement concrete in shelves the cost of cutting chases and making good the same shall be inclusive in the item and nothing extra shall be paid on this account.

4.0 BRICKWORK:

4.1 The brickwork shall be carried out with good quality Fly ash bricks of class designation 100 as per CPWD Specifications.

4.2 The rate shall also include for leaving chases / notches for dowels / cramps for all kinds of cladding to come over brick work.

4.3 Brick work provided around shaft or lift walls or around slab cutouts shall be measured in the brick for corresponding floor level. Nothing extra shall be paid on this account.

4.4 M.S. Strip/ Bar provided at every third course of half brick masonry shall be in single piece. If required, welding joint can be used without overlaps. Nothing extra shall be paid for welding and overlaps.

5. **Expansion Joint**

General

5.1 Seismic / separation/ expansion joints shall be provided where shown on the drawings and as per CPWD specifications and as directed by Engineer-in-Charge. They shall be constructed with in gap between the adjoining parts of the works of the width specified.

5.2 The contractor shall ensure that no debris is allowed to enter and be lodged in seismic/ separation/ expansion joints.

6 **STONE / MARBLEWORK**

6.1 General: - The execution of stones work shall be in general as per CPWD Specifications 2019 (Volume- I &II) with up-to-date correction slips.

6.2 **GRANITE/ MARBLEWORKS**

6.2.1 The granite/ marble stonework shall, in general, be carried out as per the CPWD Specifications. The specifications for dressing, laying, curing, finishing, measurements, rate etc. for the granite/ marble stone flooring shall be same as that of works for the Marble flooring, skirting and risers of steps under Flooring Sub Head of the CPWD Specifications. The wall lining / veneer work with granite/marble stone shall be as per the CPWD Specifications for Marble work Sub Head.

6.2.2 The decision of the Engineer-in-Charge as regards the approval of the samples for the various types of the granite/ marble stones shall be final and binding on the Contractor. No claim of any kind whatsoever shall be entertained from the Contractor on this account. The Contractor shall then procure and get the mock up prepared at site of work for approval of quality of workmanship and the granite/ marble stone as specified. The mock up shall be prepared in lift lobby, toilet etc. on one of the floors. The size of the stones shall be as per the architectural drawings. If the quality of the workmanship and the material is as per the required standards, the mock up shall be allowed as part of the work and measured for payment and shall not be dismantled. Otherwise, it shall be dismantled by the contractor as directed by the Engineer-in-Charge and taken away from the site of the work at his own cost. Nothing extra shall be payable on this account.

6.2.3 That the curvilinear profile of the entrance steps for the building shall be negotiated in segmental manner (using trapezoidal shaped granite stone pieces with straight edges for treads and rectangular stone pieces for the risers) and not in curved profiles as specified earlier. However, the granite/ marble stone slabs shall be cut to required sizes and shapes, as per the architectural drawings, to negotiate the curved steps in segmented manner. The risers shall also be cut to required sizes and shapes and the edges chamfered at the joints, all as per the architectural drawings. However, the Contractor shall prepare the detailed shop drawings for the same and commence work only after the approval by the Engineer-in-Charge. The rate shall also include any consequent wastage, incidental charges involved in this work. Nothing extra shall be payable on this account. For the purpose of payment, the actual area of each type of granite/ marble stone as laid shall be measured.

6.2.4 For the steps (risers and treads) in the linear profile, the granite/ marble stone shall be provided in single pieces up to 2.0m as per the architectural drawings, unless otherwise specifically permitted by the Engineer-in-Charge. Wherever grooves are required to be provided the same is to be done as per architectural drawings and as directed by the Engineer-in-charge. Wherever required, the joints shall be provided as per the architectural drawings. Nothing extra shall be payable on these accounts.

6.2.5 The granite/ marble slabs used for providing and fixing in the sills, soffits and jambs of doors, windows, ventilators and similar locations shall be in single piece unless otherwise directed by the Engineer-in-Charge. Wherever stone slab other than in single piece is allowed to be fixed, the joints shall be provided as per the architectural drawings and as per the directions of the Engineer-in-Charge. In the cabin areas, the joints in sills shall preferably be provided in line with the partition wall. Depending on the number of joints, as far as possible, the stone slabs shall be procured and fixed in slabs of equal lengths as per the architectural drawings and as directed by Engineer-in-Charge.

6.2.6 While fixing the granite/ marble slabs in sills, soffits and jambs of doors, windows, ventilators etc., rebates shall be made by overlapping the stones at the required places for fixing shutters for doors, windows and ventilators etc. as shown in the architectural drawings and as per the directions of the Engineer-in-Charge. Epoxy based adhesives shall be used for fixing the granite/ marble stones to each other, or wherever required. The authorized overlap as per the architectural drawings or as directed by the Engineer-in-Charge shall be measured for payment under the same item. However, any extra mortar thickness required due to the overlap arrangement shall be deemed to have been included in the rate of this item. Nothing extra shall be payable on this account. The granite/ marble stone slab shall be fixed over low level storage cabinets using necessary adhesive as per the manufacturer's specification. The stone shall have uniform thickness and shall be provided in sizes as per the architectural drawings. The stone slab shall have uniformly leveled surface after fixing. All the joints shall be finished smoothly in a workmanlike manner.

6.2.7 The granite/ marble work shall be adequately protected by a layer of Plaster of Paris, which shall be maintained throughout and removed just before handing over of the works for which nothing extra shall be payable.

The granite/ marble work shall be adequately protected by a layer of Plaster of Paris, which shall be maintained throughout and removed just before handing over of the works for which nothing extra shall be payable.

6.3 SAMPLES FOR STONEWORK

Samples of each item of stone work either individually or in combination shall be prepared for approval of Engineer-in-charge before commencement of work.

6.4 WOODWORK

6.4.1 The wood work in general shall be carried out as per CPWD Specifications (Volume-I) 2019, with up-to-date correction slips.

6.4.2 The factory shall be got approved from the Engineer-in-charge before commencement of work for factory made wood work. The sample of timber to be used shall be deposited by the contractor with Engineer-in-charge before commencement of work.

6.4.3 The shape and size of beading shall be as per drawings. The joints of beading shall be mitred.

6.4.4 Timber shall be of specified species, good quality and well-seasoned. It shall have uniform colour, reasonably straight grains and shall be free from knots, cracks, shakes and sapwood. It shall be close grained. The contractor shall deposit the samples of species of timber to be used with the Engineer-in-Charge for testing before commencement of the work.

6.4.5 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.

6.4.6 The contractor(s) shall produce cash voucher and certificates from approved Kiln Seasoning Plants about the timber used on the work having been kiln seasoned and chemically treated by them, falling which it would not be so accepted as kiln seasoned and/or chemically treated.

6.4.7 Transparent sheet glass conforming to IS: 2835–1977 shall be used. Thickness being governed as under unless otherwise specified in the item in wood work/steelwork:

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	5.0 Mm

6.4.8 Factory made wooden flush door shutters shall be carried out as per CPWD specifications (Volume-I, 2019 with upto date correction slips).

6.4.9 The work shall be executed through specialized agencies to be approved by the Engineer in Charge.

6.4.10 The contractor shall propose well in advance to Engineer-in-Charge, the names and address of the factory where from the contractor intends to get the shutters manufactured along with the credential of the firm. The contractor shall place the order for manufacturing of shutters only after obtaining approval of the Engineer in Charge whose decision in this case shall be final & binding. In case the firm is not found suitable he shall propose another factory. The factory may also be inspected by a group of officers before granting approval; shutters shall however he accepted only if these meet the specified test.

6.4.11 Contractor will arrange stage wise inspection of the shutters at factory by the Engineer-in-Charge or his authorized representative. The contractor will have no claim if the shutters brought at site in part or full lot are rejected by the Engineer-in-Charge due to bad workmanship / quality. Such defective shutters will not be measured and paid. The contractor shall remove the same from the site of work within 7 days after the written instruction in this regard are issued by the Engineer-in- Charge.

6.4.12 The shutters should be brought at site without primer /painting.

6.5 (a) Inspection of shutters shall be carried out for dimensions & tolerances, size & type general construction & workmanship, finish & glazing at the following frequency:

Lot Size	Sample Size	Permissible number of defective
Up to 25	2	0
26 to 50	5	0
51 to 100	8	0
101 to 150	13	1
151 to 300	20	2
301 to 500	32	3
501 to 1000	50	5
1001 & above	80	7

(b) Criteria for conformity

Any sample shutter failing in any one or more of the requirements inspected for as above shall be considered as defective. A lot shall be considered as having satisfied the requirements of the standard if the number of defective shutters in the sample does not exceed the corresponding permissible number of defectiveness given above.

(c) Testing – The shutters shall be tested for species seasoning & treatment, defects in the timber, panel material, construction & workmanship in the approved Laboratory at the frequency mentioned in CPWD specification. If shutters are found defective in any one of the criterion double the shutter shall be tested & if found permissible can be accepted. If shutter is found defective in more than one criterion, the whole lot shall be rejected.

(d) Finish

i) All components of door shutter shall have smooth finish.

ii) Panels of the door shutters shall be flat and well sanded to a smooth and level Surface.

iii) All the surfaces of door shutters which are required to be painted or polished or varnished shall be got approved from the Engineer In Charge before applying protective coat of primer, polish or varnish.

7.0 STEEL WORK

All steel work shall be carried out as per CPWD Specifications. (Volume 1) 2019 with up-to-date correction slips.

8.0 FLOORING

8.1 All work in general shall be carried out as per CPWD Specifications (Volume 1) 2019 with up-to- date correction slips.

8.2 Whenever flooring is to be done in patterns of tiles and stones, the contractor shall get samples of each pattern laid and approved by the Engineer-in-charge before final laying of such flooring. Nothing extra shall be payable on this account.

8.3 Different stones / tiles used in pattern flooring shall be measured separately as defined in the nomenclature of the item and nothing extra for laying pattern flooring shall be paid over and above the quoted rate. No additional wastage, if any, shall be accounted for any extra payment.

8.4 Samples of flooring stones/ Tile (Kota/ Marble/ Granite/ Ceramic tiles/ Vitrified tiles etc.) 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.

8.5 The Marble/ Kota/ Granite or any other stone shall be fully supported by the details establishing the quarry and its location.

8.6 Full width Marble/ Kota/ Granite stone over kitchen platform shall be provided which shall not be less than 900mm long except to adjust for closing pieces. The marble / stone flooring in treads and risers of staircase shall not be less than 1500mm long except to adjust the closing pieces. Nothing extra shall be paid on these accounts.

8.7 Vitrified Tile Flooring

The tiles shall be of approved make and shall generally conform to Table 12 of IS15622. The full body Vitrified tiles of specified sizes shall be used & sample of tiles shall be got approved from the Engineer-in-Charge. All tiles shall be rectified and double charge minimum. The Mandatory tests for vitrified tiles shall be got done as per CPWD Specifications (volume- 1)/relevant BIS Code.

The vitrified tiles shall be as specified in the item. The tiles shall be of specified colours as shown in the drawings or as approved by Engineer-in-Charge and will be laid in pattern as per architectural drawings. Nothing extra shall be paid for laying tiles in specific pattern. The tiles shall be of first quality of approved make.

8.8 Ceramic Tiles Flooring

The tiles shall be procured from the approved manufactures of the specified shade & colour. The floor & wall tiles shall be conforming to IS:15622 for floor and wall tiles respectively. Tiles for dado shall be 300mm x 450mm (minimum size) or more (GROUP-III) as approved. Tiles for flooring shall be 300mm x 300mm (minimum size) or more (GROUP-V) as approved. Test shall be conducted to satisfy the quality of material as per CPWD Specifications.

8.9 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 proper gradient shall be given to flooring for toilets, verandah, kitchen, courtyard, etc. as per the directions of Engineer-in-charge.

9.0 WATER PROOFING FOR SUNKEN FLOORS:-

9.1 The work shall be got executed from the specialized agency as approved by the Engineer in Charge.

9.2 Contractor shall also submit the names of water proofing specialist / agency along with information about their technical capabilities and list of similar works executed by the specialized agency in the past for the approval of Engineer-in-charge within 07 days from the date of award of the work.

9.3 Total quantity of the water proofing compound required shall be arranged only after obtaining the prior approval of the make by Engineer-in-charge in writing. Materials shall be kept under double lock and key and proper account of the 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.

9.4 The finished surface after water proofing treatment shall have adequate smooth slope as per the direction of the Engineer-in-charge.

9.5 Before commencement of treatment on any surface, it shall be ensured that the outlet drainpipes / spouts have been fixed and the spout openings have been chased and rounded off properly for easy flow of water.

9.6 **GUARANTEE BOND FOR ALL WATER PROOFINGITEMS: -**

Five years Guarantee bond in prescribed proforma at Page No.78-79 of Part-B 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. (Ten per cent) of the cost of water-proofing work (Sub head 12 of Schedule of Quantities Civil and any other items related to the water proofing) shall be retained as Security Deposit in addition to normal security deposit of the whole work and the amount so deducted would be released after Five years from the date of completion of the entire work under the agreement, if the performance of the treatment is found satisfactory. If any defect is noticed during the guarantee period, the contractor shall rectify it within 15 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.

10 **FINISHING:-**

10.1 The work shall be done in accordance with CPWD Specifications (Volume II) 2019 with up-to-date correction slips and/or manufacturers specifications wherever applicable.

10.2 All painting material of approved brand and manufacturer shall be brought to the site of work in the original sealed containers. The material brought to the site of work shall be sufficient for at least 30 days of work. The material shall be kept under the joint custody of contractor and representative of the Engineer-in-charge. The empty containers shall not be removed from the site till the completion of the work without permission of the Engineer-in-charge.

10.3 In the item of finishing walls with water proofing cement paint, only the plain/flat area shall be measured for payment and nothing extra shall be paid on account of pointed wall surface.

10.4 The name of the manufacturer, manufacturer's product identification, manufacturer's mixing instructions, warnings and instructions for handling and application, toxicity and date of manufacturing and shelf life shall be clearly and legibly mentioned on the labels of each container. These details shall be kept in record. The material shall be consumed in the order of material brought to site, first come first consume basis. The Contractor shall obtain and submit to the Department the manufacturer's certificate for compliance of the various characteristics of the materials as per the manufacturer's specifications and also copy of the manufacturer's test report for the record.

10.5 Empty containers of the paints shall not be removed from site till the completion of the work unless otherwise permitted and shall be removed only with the permission of the Engineer-in-Charge or his authorized representative at site of work.

10.6 All arrangements for measuring, dosing etc. at site shall be made by the Contractor. Nothing extra shall be payable on this account.

10.7 The Contractor shall apply samples of each kind of paint for the approval of shade and colour as per the directions of the Engineer-in-Charge before procuring the paint in mass.

10.8 All incidental charges of cartage, storage, wastage, safe custody, scaffolding, cost of samples and mock ups etc. shall be borne by the Contractor and no claim, whatsoever, shall be entertained on this account.

11 SANITARY INSTALLATIONS /WATER SUPPLY /DRAINAGE:-

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

11.2 The contractor shall examine all architectural, structural, plumbing and other services drawings and check the as-built works before starting the work, report to the Engineer In-Charge any discrepancies and obtain clarification. Any changes found essential to coordinate installation of his work with other services and trades, shall be made with prior approval of the Engineer In-Charge without additional cost to the department.

11.3 All the shop drawings shall be prepared on computer through Autocad System based on Architectural Drawings and site measurements. Within two months of the award of the contract, contractor shall furnish, for the approval of Engineer In-Charge, the two sets of detailed shop drawings of complete work and materials including layouts for Plant room, Pump room, Typical toilets drawings showing exact location of supports, flanges, bends, tee connections, reducers, detailed piping drawings showing exact location and type of supports, valves, fittings etc; external insulation details for pipe insulation etc.

11.4 These shop drawings shall contain all information required to complete the work. These Drawings shall contain details of construction, size, arrangement, operating clearances, performance characteristics and capacity of all items of equipment, also the details of all related items of work by other contractors. Each shop drawing shall contain tabulation of all measurable items of equipment/materials/works and progressive cumulative totals from other related drawings to arrive at a variation-in-quantity statement at the completion of all shop drawings. Minimum 4 sets of drawings shall be submitted after final approval along with CD. When he makes any amendments in the above drawings, the contractor shall supply two fresh sets of drawings with the amendments duly incorporated along with check prints, for approval. The contractor shall submit further four sets of shop drawings to the Engineer In-Charge for the exclusive use by the Engineer In-Charge and all other agencies. No material or equipment may be delivered or installed at the job site until the contractor has in his possession, the approved shop drawing for the particular material/equipment / installation.

11.5 Shop drawings shall be submitted for approval four weeks in advance of planned delivery and installation of any material to allow the Engineer In-Charge ample time for scrutiny. No claims for extension of time shall be entertained because of any delay in the work due to his failure to produce shop drawings at the right time, in accordance with the approved programme.

11.6 Samples of all materials like valves, pipes and fittings etc. shall be submitted to the Engineer In-Charge prior to procurement for approval and retention by Engineer In-Charge and shall be kept in their site office for reference and verification till the completion of the Project. Wherever directed a mockup or sample installation shall be carried out for approval before proceeding for further installation without any extra cost.

11.7 Approval of shop drawings shall not be considered as a guarantee of measurements or of building dimensions. Where drawings are approved, said approval does not mean that the drawings supersede the contract requirements, nor does it in any way relieve the contractor of the responsibility or requirement to furnish material and perform work as required by the contract.

11.8 All materials and equipment shall conform to the relevant Indian Standards and shall be of the approved make and design. Makes shall be in conformity with list of approved manufacturers as per the tender document.

11.9 Balancing of all water systems and all tests as called for the CPWD Specifications shall be carried out by the contractor through a specialist group, in accordance with the Specifications and Standards. The installation shall be tested and shall be commissioned only after approval by the Engineer In-Charge. All tests shall be carried out in the presence of the representatives of the Engineer In-Charge and nothing extra shall be payable on this account.

11.10 The contractor shall submit completion plans for water supply, internal sanitary installations and building drainage work within 15 days of the date of completion. These drawings shall clearly indicate complete plant room layouts, piping layouts and sequencing of automatic controls, location of all concealed piping, valves, controls and other services. In case the contractor fails to submit the completion plans as aforesaid, security deposit shall not be released and these shall be got prepared at his risk and cost.

11.11 For the work of water supply and sanitary installations, the contractor shall engage the approved licensed plumbers and submit the name of proposed plumbing agencies with their credentials for approval of the Engineer-in-Charge.

11.12 The work in general shall be carried out as per CPWD Specifications 2019 (Volume II) with up-to- date correction slips.

11.13 The tendered rates shall include the cost of cutting holes/cores in walls, floors, RCC slabs etc. wherever required and making good the same for which nothing extra shall be paid.

11.14 The CCI/CI/PVC pipe and GI pipe etc. wherever necessary shall be fixed to RCC columns, beams etc. with rawl plugs and nothing extra shall be paid for this.

11.15 The variation in consumption of material shall be governed as per CPWD specification and clauses of the contract to the extent applicable.

11.16 The contractor shall bear all incidental charges for cartage, storage and safe custody of materials and shall construct suitable godowns, yards at the site of work for storing materials so as to be safe against damage by sun, rain, fire or theft etc., at his own cost and also employ necessary watch and ward establishment for the purpose at his own cost.

11.17 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 tender 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. Nothing extra whatsoever shall be payable on this account.

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

11.19 Porcelain sanitary ware shall be glazed vitreous china of first quality free from warps, cracks and glazing defects and shall conform to relevant BIS codes. Colour of sanitary ware, shall be specified or as selected by the Engineer-in-Charge. Nothing extra shall be payable on this account.

11.20 Horizontal pipes running along ceiling shall be fixed on structural adjustable clamps of approved design. Horizontal pipes shall be laid to uniform slope and the clamps adjusted to the proper levels so that the pipes fully rest on them and are properly secured.

11.21 Contractor shall provide all nuts, bolts, welding material and paint the Clamps with one coat of red oxide and two or more coats of black enamel paint.

11.22 Slotted angle/channel supports on walls shall be provided wherever shown on drawings. Angles/channels shall be of sizes shown on drawings or specified in schedule of quantities. Angles/channels shall be fixed to brick walls with bolts embedded in cement concrete blocks and to RCC walls with suitable anchor fasteners.

11.23 Wherever M.S. clamps are required to be anchored directly to brick walls, concrete slabs, beams or columns, nothing extra shall be payable for clamping arrangement and making good with cement concrete 1:2:4 mix (1 cement: 2 coarse sand: 4 stone aggregate 20 mm nominal size) or as directed by the Engineer-in-Charge.

11.24 The ground colour shall be applied throughout the entire length of pipe. Colour bands shall be superimposed on the ground colour and shall be applied near valves, junctions, joints, service appliances, bulkheads, valves, etc. for clear identification of fluid being carried and to avoid confusion. The relative proportional widths of the first colour band to the subsequent bands shall be 4:1.The minimum width of the narrowest colour band shall be 25 mm.

11.25 The entire responsibility for the quality of work will however rest with the building contractor only. If the performance of the items is not found satisfactory, if any defect is noticed during the period, the contractor should rectify it within seven days.

11.26 Rates for all items quoted shall be inclusive of all work and items given in the above mentioned specifications and Schedule of Quantities and applicable for the work under floors, in shafts or at ceiling level at all heights and depths. All rates are inclusive of cutting holes and chases in RCC and masonry work and making good the same. All rates are inclusive of pre testing and on site testing of the installations, materials and commissioning.

12 Cleaning and Disinfection of Pipelines:-

On completion of hydraulic tests and before a pipe is disinfected, it shall be proved to be free from obstruction, debris and sediment by scouring or by any other process which the Engineer-in-charge may prescribe. Upon satisfactory completion of testing and cleaning, the pipelines shall be disinfected as ordered. Chlorine solution shall be applied at the charging point as the pipeline is being filled and dosing shall be continued until the pipeline is full and at least 50 parts of chlorine per million parts of water have been made available and distributed evenly. If ordinary bleaching power is used, proportions will 150 gms of power to 1000 litre of water. If a proprietary brand is used, the proportion shall be as specified by the manufacturer. The treated water shall be left in pipeline for a period as directed but not exceeding 24 hours chlorine residual tests shall be taken at various points along the pipeline. The disinfection process shall be repeated until the sample of water taken from the pipelines is declared fit for human consumption by a recognized laboratory.

12.1 All soil and waste lines pipes and fittings including joints shall be tested by smoke test before concealing the lines, to the satisfaction of the Engineer-in-charge and left in working order after completion.

12.2 Opening, cut out in slabs, beams as required shall be left out by inserting PVC spouts of required size before casting of RCC members. Nothing extra shall be paid on this account.

13 Stainless Steel Railings:

13.1 Providing, fabricating and fixing in position welded built-up section using stainless pipes and connecting plates, of Grade S.S. 304 or as specified in the item and of required diameter & thickness as per the directions of the Engineer-in-Charge, at the junctions of doors, on walls, other locations as directed etc. including cutting, welding, grinding, bending to required profile and shape, hoisting, buffing and polishing, cutting chase/embedding in RCC / Masonry, fixing using stainless steel screws, nuts, bolts and washers or stainless steel fasteners as required to make it rigidly fixed & stable and making good the plaster/flooring etc. all complete, at all floors and all levels as directed by the Engineer-in-Charge.

13.2 Rate includes cost of all inputs of materials, labour, T&P, etc. involved in the work and all incidental charges to execute this item. However, for the purpose of payment only the actual weight of the stainless pipes and stainless steel plates provided and fixed shall be measured in kg.

14 Aluminium doors, windows, ventilators etc. glazing specifications

Extent and Intent: -

14.1 The work shall be carried out in the factory through an approved Special Agency, who shall furnish all material, labour, accessories, equipment, tool and plants and incidentals required for providing and installing anodized/powder coated aluminium doors, windows, claddings, louvers and other items as called for on the drawings. The drawings and specifications cover the major requirements only. The supplying of additional fastenings, accessories, fixtures and other items not mentioned specifically herein, but which are necessary to make a complete installation shall be a part of this contract. Hinges for open able panel shall be stainless steel friction hinges / stays selected for specified wind load and dead loads or specifically extruded in-built hinges.

12.1 **General:** - Aluminium doors, windows etc. shall be of sizes, section details as shown on the Architectural drawings. The details shown on the drawings indicate generally the sizes of the component parts and general standards. These may be varied slightly to suit the standard adopted by the manufacturers. Before proceeding with any 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.

12.2 **Shop Drawings**: - The contractor shall submit the shop drawings of doors, windows, louvers, cladding and other aluminium work, based on the architectural drawings to the Engineer-in- Charge for his approval. The shop drawing shall show full size sections of doors, windows etc. thickness of metal (i.e. wall thickness) details of construction, 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.

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

12.4 **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 technical properties, as per IS: 733 and IS: 1285. The permissible tolerance of the extruded sections shall be such as not to impair the proper and smooth function/ operations and appearance of doors and windows.

12.5 **Fabrication:** - Doors, windows etc. shall be fabricated to sizes at factory and shall be of section, sizes, combinations and details as shown on the drawings. All doors, windows etc. shall have mechanical joints. The joints shall be designed to withstand a minimum wind load of 150 Kg. per Sqm. The design shall also incur that the maximum deflection of any member shall not exceed 1/175 of the span of the member. 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 doors, 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 to support and fixing of hardware and other fixture as approved by the Architect.

12.6 Anodizing/ powder coating: -All aluminium sections shall be Powder coated (minimum 50 micron thickness) as per requirement as per IS: 7088 and to required colour as specified in the item as per IS: 1868 grading as specified in item schedule after cutting the member to requisite sizes before the final assembly. Powder coating shall be of minimum 50 micron thickness. Anodizing confirming to specified grade with minimum average thickness of 15 microns when measured as per IS: 612. The anodic coating shall be properly sealed by steams or in boiling water are cold sealing process as per IS:1868/IS: 6057. Polythene tape protection shall be applied on the anodised section 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 on installation. The sample will be tested in the approved laboratory and cost of samples; etc. shall be borne by the contractor.

12.7 Protection of finish: - All aluminium members shall be wrapped with approved self-adhesive non-staining. PVC tapes.

12.8 Handling and Stacking:-

12.8.1 Fabricated materials shall be carried in an approved manner to protect the material against any damage during transportation. The loading and unloading shall be carried out with utmost care. On receipt of material at site, it 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 inspections shall be repacked in crate sand stored safely.

12.8.2 In the case of composite windows and doors, the 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 serial numbered and identified as out how to be assembled in their final locations if situation so warrants.

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

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

12.9 **Installation**:

12.9.1 Just prior to installation the doors, windows, etc. shall be uncreated and stacked on edge on level bearers and supported evenly. The frame shall be fixed into position 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 drill.

12.9.2 The door/ windows assembled as shown on drawings shall be placed in correct final position on 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 drill at the marking to house the expansion blots. The expansion bolts 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 thought cadmium plated machine screws of required size 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 at points of glazing bars and frame.

12.10 EPDM Rubber / Neoprene gaskets: The contractor shall provide and install EPDM Rubber / Neoprene gaskets of approved size and profile at all locations as shown and as called for to render the doors, windows etc. absolutely air tight and weather tight. The contractor shall produce samples of the gaskets for approval and shall procure the same after approval only.

14.11. Fittings: Hinges, stays, handles, tower bolts, locks and other fittings shall be of quality and manufacturer as approved by the Engineer-in-Charge.

14.12 Manufacturer's Attendance: The manufacturer immediately prior to the commencement of glazing shall adjust and set all windows and doors and accept responsibility for the satisfactory working of the opening frames.

14.14. Poly-sulphide: The gaps between frames and supports and also any gaps in the door and windows sections shall be raked out as directed and filled with poly-sulphide of approved colour and make to ensure complete water tightness. The poly-sulphide 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 sample of poly-sulphide to be used for this purpose shall be got approved from the Engineer-in- Charge before its actual use.

14.15 Details of Test:

14.15.1 The various tests on aluminium sections shall be conducted in accordance with the relevant IS codes.

14.15.2 The minimum number of tests for anodizing/powder coating and corrosion resistance shall be as given below:-

Sl. No.	Details	No. of Tests
1.	Doors, windows and ventilators	One test for every 1000 kg or part thereof.

14.15.3 The samples of major member of each unit of doors/ windows shall be selected at random by Engineer-in-Charge as such that all the aluminium section shall be got tested.

15. Rates:-

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

15.2 The rates exclude the cost of stainless steel friction hinges / stays selected for specified wind load and dead loads or specifically extruded in-built hinges, and rest of the fittings shall also be paid separately.

LIST OF FIELD TESTS

i) Particle size and shape
ii) Slump test
iii) Flakiness & Elongation Index tests
iv) Compressive strength (concrete or bricks) test
v) Rebound Hammer test
vi) Bulking of sand
vii) Silt content of sand
viii) Temperature measuring with thermometer with brass protected end 0-200^{0}C

ADDITIONAL CONDITIONS

1. Existing cement plaster where any skirting or cladding work is to be executed shall be dismantled before fixing tile, granite stone to the wall surface to ensure proper bond with base and planarity.

2. Wherever, cladding is to be provided on the existing non plastered surface, adequate hacking, wire brushing, clearing etc., after removing existing paint, shall be done by the agency so as to ensure proper bond of cladding to the existing surface.

3. Any damage caused to the building during the execution of work shall be made good by the contractor at his own cost to the satisfaction of Engineer-in-charge.

4. Work shall be done at different floors, shifting of material to different floor shall be carried out maintaining neatness and without much disturbance to user. Nothing extra shall be paid on account.

5. Work includes fixing of door, window frames after demolishing / removing existing frames. In all such cases jambs and existing masonry shall be made good including plastering the jamb. The rate quoted by the contractor shall include all such operations.

6. Contractor shall remove from site the rubbish / malba generated during course of execution of work from time to time before exceeding 2 truck loads (say 12 cum), failing which the contractor shall be liable to pay Rs.2000/- per day which shall be recovered from the payment due to the contractor.

7. The contractor has to supply all the items as per the agreement scope within 1 month of the date of start of the work. If contractor fails to do so, the same shall be supplied by the department at contractor risk and cost.

Special Conditions For Engaging Workmen and attending Day to Day Complaints.

1. Complaints will be transferred to the contractor through service centre either by complaint Register/ through email / mobile message of service centre computer operator.
2. Contractor has to attend the complaint in the following timeline as soon as complaint received at service centre or instruction by AE / JE through site order book.

SI.No.	Complaint Description	Timeline for attending compliant	Penalty shall be recovered from the contractors bill, if complaint not attended within the timeline in Rs. Per complaint Per day
1	Emergency (blocked drains, no power, no water, etc)	6 hours	Rs.500 for each complaint each day
2	Minor (cleaning of drains, water overflow, faulty switches, etc)	3 days	
3	Major (repairs to doors, windows, plumbing, internal wiring etc)	30 days	
4	Periodical (white washing, painting, cleaning water tanks etc)	60 days	

3. Contractor shall arrange for Biometric Attendance or Geo tag photographs of all labours supplied by him on each day to the concerned JE and contractor shall maintain Attendance register with arrival and departure timings. Nothing extra will be paid for providing Bio metric instrument.

4. The labourers engaged by the contractor shall be paid minimum wages as prescribed by the Government the same has to be made through **Bank / ECS or online transfer of his account before 5th** of every month and get certified from AE / JE.

5. Contractor has to furnish the details of wages paid to the labours engaged. **The wages shall be paid on or before 5th of every month.** Incase of default in salary payment, the same shall be recovered from the contractors bill at the rate **twice** the minimum wages of labours.

6. The contractor has to submit the details of **wage / payment register** signed by the labours and contractors with signature of AE / JE **along with details of EPF & ESIC subscription** of all labours engaged shall be submitted along with all RA bills and final bill. No payment shall be made without this details.

7. **If any labour / worker absent to duty, recovery will be made at twice the minimum wages of labours from the contractors bill.**

8. All the workmen provided by the contractor shall be **wear uniform and CPWD badge** as pre the direction of Engineer-in-charge, if any workmen not wearing the uniform

attendance will not be considered for that particular day. Nothing extra will be paid to the contractor in this regard.

9. **Engaging plumber/ carpenter/ mason/ sewerman for routine maintenance works**:

7.1 The plumber engaged by the contractor shall be responsible for attending all repair works related to water supply and sanitary installations in all the buildings inside. Complaints should be attended within the benchmark period as mentioned above. If the complaints are not attended within the benchmark time limit, a fine of Rs.500 per complaint per day will be imposed, subject to a maximum of Rs. 6000.00 per complaint and will be recovered from the contractor's bills. The plumber shall be equipped with necessary tools to carry out the repair works.

7.2 The duty timings of the plumber shall be from 9.00AM to 6.00PM including 1 hour lunch break every day except on Sundays and national holidays. However, in case of emergency, the plumber shall attend repair works after duty hours or even on Sundays and national holidays also for which no extra payment will be made.

7.3 Department will supply the materials/fittings required for repair works. However, if the materials are not readily available with department/ agreement the contractor shall arrange the same shall be paid as Extra item as per agreement clause

7.4 The payment will be made based on the attendance register available at service centre. If the labour does not attend duty or not attend complaints assigned to them on any particular day/ days, a **penalty of twice the minimum wages** per day will be imposed on the contractor and will be deducted from the bills. Further, the complaints not attended by the contractor will be got done at the risk and cost of the contractor and the expenditure incurred thus will be recovered from the contractor. The decision of the Engineer-in-charge or his authorized representative at the service centre, imposing the penalty/recovery will be final and binding on the contractor.

SECURITY PROCEDURES

GENERAL

The Contractor shall submit the details of any sub-contract awarded by them, with the period of work and all the required particulars of the Sub-Contract Staffs /Labourers (i.e Name, Designation, Father's Name, Aadhaar Card No. and Contact No.) on their letter head.

The contractors and the sub-contractor must submit the details of their staffs /labourers in the prescribed format along with all the enclosures to Security Officer, RMP, BARC, Mysore.

Carrying of mobile phones is strictly restricted inside the BARC Plant. Carrying mobile phones inside the Township may be permitted with the undertaking by the main contractors to Security Officer in a prescribed BARC format. However, the mobile phones for contractor labourers/staffs in townships may be permitted subjected to the nature of works and an undertaking submitted by the contractor, which will be approved by BARC.

Liquor and smoking will be strictly prohibited at BARC colony and BARC Plant site. Contractors shall submit an undertaking to ensure the same.

The contractor may apply for temporary entry permit for BARC Colony workers in the prescribed format duly supported by a copy of Aadhar card, approved by Security Officer. The entry permit along with the copy of a valid ID proof shall be submitted to security staff on-duty at the Main Gate security of the BARC/PLANT Site.

The temporary entry permit for Non-Police Verified contractor staff/ laborers shall be initially valid for 15 days, which shall be renewed only under exceptional cases for the next 15 days. The maximum validity period of the permit shall be of 30 days from the date of first entry and for the submission of Police Verification Certificate for their staff and laborers.

The contractor's staff I laborers will make an entry of time In and time Out, in the appropriate register kept with the Main Gate Security. All the contractor staff/ laborers are subjected to frisking / security check.

Police Verification Certificate (PVC) is mandatory for all the contractors /sub-contractor staffs /labourers including In-camp labourers, engaged in any type of contract work at the BARC/PLANT Site of Mysore. The validity of Police Verification Certificate (PVC) will be considered for three years from the date of issuance of PVC, unless there is any adverse

report received against the concerned contract workers or as per guidelines issued from DAE.

A temporary photo identity card shall be issued by the Security Section of BARC/PLANT Mysore, to the staff /labourers of the contractor /subcontractor who have submitted PVC. The photo pass will be valid till the contract period. In case the validity of work contract is extended by the concerned Section, the EIC shall submit a copy of the same along with the letter for extension of validity of labourer's temporary identity card.

The contractor /sub-contractor shall deploy a supervisor to assist security and EiC BARC/PLANT Mysore, related to entry /exit of labourers, movement of contractor's materials and vehicles. The supervisor is also responsible to oversee the activities of their labourers at the work spot during working hours and beyond normal working hours.

The contractors will adhere to the security guidelines issued from time to time by BARC issued through CPWD.

The security services of residential colonies is under the supervision of Departmental Security, BARC/RMP, Mysuru (hereafter refereed as BARC Security)

SECURITY PROCEDURES FOR ENTRY OF CPWD CONTRACT WORKERS IN RESIDENTIAL COLONIES OF BARC/RMP, MYSURU

A.1 Procedure for Personnel Access Control:

(i) On award of the work contract, Contractor should submit bio-data form (Appendix-1) duly completed along with a self-attested copy of Aadhar Card and PVC of workers to Security Section. On receipt of these documents BARC Security will issue a Temporary labours pass (Green colour pass).

(ii) The validity of PVC shall be considered only for 3 years i.e., from the date of issuance of PVC unless there is any adverse report received against the concerned contract workers or as per guidelines issued by DAE.

(iii) For the commencement of work, the contractor should raise a temporary labour entry permit for 15 days in the prescribed format along with a self-attested copy of Aadhar Card and latest photographs of the labour to BARC Security so that labour pass can be issued.

(iv) On requisition only under exceptional cases, further extension of 15 days may be considered after approval from OIC, Civil/ OIC Electrial as the case may be .

(v) If any of the casual labour failed to produce PVC within 30 days, He/ She may not be allowed to work in BARC/RMP residential colonies.

(vi) The contractor /firm are responsible to produce his labourers and themselves in the event of any adversary report/ enquiry from law enforcing authority against their labourers or themselves.

(vii) Every year in the month of January, Contractor should submit an undertaking from the contractors regarding non involvement of their laborers in any criminal activity and/or Police Case. This undertaking shall be endorsed by the contractor who will certify that the undertaking given by the contract worker is true and in case, if the same found false they be held responsible. This certificate shall be provided by the contractor to security for record at the time of annual renewal of labour pass.

(viii) The contractor shall deploy a supervisor to monitor the day to day activities

(x) A Register shall be maintained at the Gate of the colonies and the Contractors Supervisor / representative shall have to make proper entry/exit of all the labourers working in the colonies with all the required data. The name of the laboureres working at any time in the colony will be appended after every 8 hrs from the time of first entry

A.2 Loss of Labour Pass:

(i) Supervisors and Contractors workers shall take utmost care of the temporary labour passes issued by the Security Section.

(ii) In case of loss of any of the labour pass the Individual / Contractor concerned shall give a written complaint through CPWD Engineer - In- Charge & BARC E.I.C to BARC Security.

(iii) Concerned Contractor shall lodge FIR with nearest police station and provide original FIR or copy of Station Diary Entry recorded by the police to BARC Security. On receipt of acknowledgement from local police, Security Section will issue labour pass on completion of all the required procedures.

A.3 Procedure for Vehicle Access Control

(i) Contractors are permitted to bring their vehicles mentioned in their work order for the purpose related to ongoing work. Details of the vehicles and drivers should be pre-submitted on their letter head and relevant entries to be made in the register. Prior permission from BARC Security is required to park Contractor's vehicles inside the colonies (in the designated area) during night time and in any special cases.

(ii) Contractor's vehicles for delivery of materials, etc., shall be allowed on producing original RC Card, Insurance and Valid Driving License of the respective category of vehicle.

(iii) Any vehicle accident inside the Residential area shall be reported immediately to on

duty security staff.

A.4 Procedure for Material Access Control:

The movement of all the equipment's and materials of any description that belongs to the Contractors shall be permitted inside the colonies on the strength of the Work Order issued and as per the Delivery Challans, Invoice, Purchase Order or any relevant documents and the following procedures to be adopted:-

(i) All incoming material should be declared to security by the person concerned before carrying material inside the residential area and it will be subject to security check.

(ii) All incoming materials carried on person in Residential area will be permitted based on the authentication letter with the list of tools/equipments/accessories from either the CPWD Engineer-In-Charge or from the Contractor as the case may be. Security Staff after checking the list of the tools and other items shall sign/endorse on the list of the materials.

(iii) If the Contractors tools/equipments/accessories are to be taken on the same day outside the colonies, the same may be permitted on the strength of the list signed/endorsed by the security staff on duty.

(iv) The materials which need to be taken out for replacement /repair need to be entered in the relevant register by the concerned contractor or the CPWD, EIC and same need to be endorsed by the security guard manning the colony gate.

(v) All other outgoing materials from colony premises to be authenticated by the concerned **BARC Engineer In-charge only**.

A.5 General Conditions

I. The CPWD / Contractor staffs will be provided with a space for service centre & storage area inside the colony premises . No labours will allowed to stay inside site/ campus after duty timings. No authorized activities shall be carried out in these areas and CPWD/contractor will be accountable for any breach in safety, security or harmony.

II. All contractors' personnel can work inside the colony 24 x7 with duly registering their entries in the register. The work shall be done under the supervision of the supervisor authorized by CPWD.

III. Contractor will be responsible for safety of their property against any theft of materials. Contractor may exercise police and judicial provisions but with priori concurrence from CPWD and BARC. Any dispute or police case involving contractors / contractor personnel shall be the reasonability of CPWD or their contractors and they only shall deal with completely. BARC shall not take any kind of responsibility or ownership in these matters

IV. Unauthorized entry in to the residential colonies is prohibited. The contractor personnel need to have discipline and good conduct inside the colony premises. It shall be the responsibility CPWD and their contractors to ensure that no person under their supervision indulges in undesirable and unnecessary practices.

V. The BARC Secuirty will reserve the right to carry out surprise security checks of the dwelling units, construction area etc., CPWD/Contractor shall extend full cooperation in this regard.

VI. In case of computer & cyber security, the CPWD/ contractor /contractor staff will come under the information security policy of BARC /DAE and is bidding on them

Verification of Credentials of Contractor's Personnel:

(a) Contractors, their employees, workers and casual labourers:

i. It will be the responsibility of the contractor to produce Character certificate for himself and is employees / workers before seeking permission for entry into BARC area. Contractor shall give ID card to all employees working inside BARC.

ii. The successful bidder, whose tender is accepted, will be required to obtain Police Verification Certificate (PVC) issued by Special Branch of Police at his own cost for all his workmen. i.e for Engineers, Supervisors and labourers to work inside BARC and should quote accordingly. The PVC shall be valid till completion of work.

iii. Original police verification certificate should be attached to the initial application for temporary identity card and in case of further renewals within six months a Xerox copy of the same can be attached.

iv. The contractor shall employ labourers only after due verification of their credentials and track of past record. They should maintain a register showing the particulars of labourers including their residential address and submit the same to the Project Engineer periodically for verification. The contractor shall ensure that no labourer with criminal record in the past is employed on BARC works. If any labourer with undesirable antecedents is found to be employed, the contractor shall forthwith remove such labourers from the work site on demand by the Project Engineer. The contractor shall be held solely responsible in the event of any adverse report / enquiry from the law enforcing authorities. Contractor shall give ID card to all labourers working inside BARC.

v. It will be mandatory on the part of the Tenderer to provide Character Certificate for their Engineers, Supervisors and authorised representative, who are authorised to draw tokens/passes - for day today works inside BARC Campus.

(b) Representatives of firms:

Representatives of firms who are required to visit BARC for supplying materials will not be issued with identity cards. They will be given entry by issuing entry permission on day to day basis.

Security Regulations:

a) As a part of keeping Nation-wide vigil on Government Establishments, the Security set up in BARC also has been beefed up and accordingly the following restrictions are in force till further orders.

b) Any motor vehicle with or without any construction related materials will be given an entry permit to BARC premises after convincing the purpose of entry, if and only if it is; accompanied by an authorised departmental employee throughout its movement within the premises.

c) The movement of contractor's Vehicle within BARC premises is restricted and normally one specified vehicle will be permitted for his personal movement at the discretion of the Project Engineer during the contract period after thorough security verification. The contractor has to apply for such vehicle permit to the department through the Project Engineer- in the standard proforma, after receiving the Work Order.

d) Each Labourer has to give his/her bio-data in the standard proforma to the Department for obtaining the labour entry pass and normally such an entry pass will be issued only after a thorough verification of the bio-data.

e) The Department will make every possible arrangement to minimise the inconvenience to the contractor from security point of view. However, due to any unforeseen reasons, any delay, inconvenience or loss occurred to the contractor no claim for compensation whatsoever in nature shall be entertained by the Department.

f) Contractor has to take separate written permission for labours & vehicles for working on holidays in advance form the BARC security/ EIC.

The above additional regulations are indicated only to make aware the contractor about the latest security set up in BARC premises.

Confidentiality Clauses:

Confidentiality:

I. No party shall disclose any information to any Third party' concerning the matters under this contract generally. In particular, any information identified as" Proprietary" in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party.

II. This clause shall apply to the sub-contractors, consultants, advisors or the employees engaged by a party with equal force.

III. "Restricted information" categories under Section 18 of the Atomic Energy Act, 1962 and "Official Secrets" Under Section 5 of the Official Secrets Act, 1923:

Any contravention of the above-mentioned provisions by any contractor, sub-contractor, consultant, adviser or the employees of a contractor, will invite penal consequences under the above said legislation.

IV. Prohibition against use of BARC's name without permission for publicity purposes

The contractor or Sub-contractor, consultant, adviser or the employees engaged by the contractor shall not use BARC's name for any publicity purpose through any public media like press, Radio, TV or internet without the prior written approval of BARC.

LIST OF PREFERRED MAKE OF MATERIALS (FOR CIVIL WORK)

NOTE:

1. A List of Preferred Brand Names of Various Materials / Products are shown below for usage in execution of work. However, Approved equivalent material of any other Specialized Companies / Firms may also be used, in case it is established that the Brands Specified below are not available in the market or in other unavoidable circumstances and subject to Approval of the alternate Brand by the Superintending Engineer, CPWD, Mysore.
2. It must be ensured, in general, that all materials to be used in the works shall bear BIS Certification mark. In case where for a particular material / product, BIS Certification Mark is not available, then the material proposed to be procured can be used subject to the condition that it should conform to CPWD specifications and relevant BIS codes. In such cases written approval of the Engineer-in-Charge shall be obtained before use of such material in their works.
3. The list given below does not absolve the Executing Agency from their responsibility for using these products. It is only after, they are satisfied about the quality and performance, the products shall be used. To achieve this, proper check on the quality of the product, actually to be used, should be exercised.

Sl. No.	Materials	Approved Make
1	White cement	J.K. WHITE, BIRLA WHITE, ASIAN PAINTS.
2	Chemical Admixtures	ARDEX ENDURA, FOSROC, MC Bauchemie, SIKA, BASF, Pidilite, CHOKSEY CHEMICALS, BOSTIK, MYK ARMENT PVT LTD.
3	Expansion joint board	SUPREME INDUSTRIES, SIL FILL OR EQUIVALENT, STP LTD
4	Damp proof material	ARDEX ENDURA, IMPERMO, DURASEAL, ACCO-PROOF, ASIAN PAINTS.
5	NON METALIC SURFACE HARDNER	ARDEX ENDURA, FOSROC, SIKA, PIDLITE,
6	INJECTION GROUTING	ARDEX ENDURA, FOSROC, SIKA, BASF, CICCO, ASIAN PAINTS, MYK ARMENT PVT LTD.
7	DELETED	DELETED
8	RMC / DMC	ULTRATECH, LAFARGE, ACC, RMC INDIA
9	BITUMEN	INDIAN OIL, HINDUSTAN PETROLEUM,

Sl. No.	Materials	Approved Make
		MANGALORE REFINERIES, BHARAT PETROLIUM
10	Steel work / TMT bars	IS MARKED TMT BARS OF TATA, JSPL, JSW, RINL, VSP OR THEIR AUTHORIZED DEALERS:
11	Structural Steel	IS MARKED TMT BARS OF TATA, JSPL, JSW, RINL OR THEIR AUTHORIZED DEALERS:
12	AAC blocks	Xtralite from Ultratech, Aerocon from HIL, Siporex India limited, NCL,Maxlite
13	EPOXY MORTAR	ARDEX ENDURA, FOSROC, SIKA, BASF, ULTRATECH, BOSTIK, PIDILITE,ASIAN PAINTS.
14	CC BLOCKS/ FLYASH BLOCKS	SIPOREX, SUNVIK, HIL
15	FRP DOOR FRAME	MEENA, RAWJI, FIBERTECH, ASTRALWIN DOORS
16	FRP DOOR SHUTTERS	MEENA, RAWJI, FIBERTECH, ASTRALWIN DOORS
17	PVC DOOR SHUTTER AND FRAME	RAJASHREE, SINTEX DUROPLAST
18	Wooden Flush Doors	KITPLY, CENTURY, GREENPLY, ARCHID PLY, Kutty, KAILASH.
19	Water proof Ply WOOD	DURO, KITPLY, CENTURY, ARCHID PLY, GREENPLY
20	Commercial Ply.	DURO, KITPLY, CENTURY, ARCHID PLY, GREENPLY
21	Laminate	FORMICA, DECOLAM, CENTURY, ROYAL TOUCH, Greenlam
22	HIGH PRESSURE LAMINATES	MERINO, GREENLAM, DECOLAM, CENTURY, ROYAL TOUCHE
23	PRELAMINATED PARTICLE	NOVOPAN, KITLAM, ARCHID PLY,

Sl. No.	Materials	Approved Make
	BOARD	CENTURY
24	NATURAL WOOD VENEER	ARCHID, ANCHOR, DURAIN, KITPLY, NATIONAL ACTION TESA
25	POLYSTER POWDER COATED SHADES	NEROLAC, BERGER, AKZONOBEL, ASIAN
26	Gypsum board	Saint Gobain, Lafarge, Boral Board, Armstrong
27	FALSE CEILING CALCIUM SILICATE	ARMSTRONG, AEROLITE, RAMCO
28	FALSE CEILING MINERAL FIBRE	SAINT GOBAIN, ARMSTRONG, ANUTONE, HIMALAYAN
29	Melamine Polish	ASIAN PAINTS, MALAMYNE GOLD WUDFIN OF PIDILITE INDUSTRIES TIMBERTONE OF ICI DULUX
30	Door Hardware	DORMA, HAFELE, KICH, OZONE, DORSET, BACKERS FS, GODREJ
31	Hydraulic door closers / Floor springs	DORMA, KICH, GODREJ, Hardwyn, DORSET
32	Locks / Latches	GODREJ, HARRISON, LINK, Dorset, DORMA
33	FIRE CHECK DOOR	BANGALORE PROTECH, SHAKTI, NAVAIR, KENWOOD, VEROTECH, SHAKTI HARMON,BHAWANI
34	SMOKE SEAL STRIP	IMPROTED PROMAT / ASTRO FLAME
35	Fire Rated Hardware	Dorma, Ingersol rand, Geze, DORSET BACKERS FS
36	Stainless steel screws for fabrication and fixing of windows.	Kundan, puja, Atul, GRIPWELL, NAKODA
37	Butt / ball bearing Hinges	Haffle, DORMA, DORSET, GODREJ
38	Piano Hinges	Jolly, Garg, AMIT, Jyoti
39	Nuts Bolts/ Screws	Kundan, Puja, Atul, IT, BOLT MASTER,

Sl. No.	Materials	Approved Make
		GRIPWELL, NAKODA
40	Acoustic Insulation	U.P. Twiga Ltd, Lloyd Insulation, Saint Gobain, ARMSTRONG
41	Glass/ reflective Glass	MODI FLOAT, SAINT GOBAIN, ASAHI, GLAVERBEL
42	UPVC windows / VENTILATION	FENESTA, REHAU, ENCRAFT, DUROPLAST WINTECH, NCL, MADHU INDUSTRIES, LG,
43	SOURCE FOR TEMPERING REFL. GLASS / CLEAR	FUSO, SAINT GOBAIN, GURIND, IMPACT SAFETY
44	Fire rated Glass	Pyoswiss of Saint Gobain, pyran of schott, pilkington
45	Vitrified Tiles TO BE OF 1ST QUALITY DOUBLE CHARGED AND TO BE MANUFACTURED IN THE MOTHER PLANT.	KAJARIA, JOHNSON, RAK CERAMICS, NITCO,SOMANY, MURUDESWAR CERAMICS Ltd.
46	Glazed Ceramic Tiles	JOHNSON, KAJARIA, NITCO, RAK CERAMICS, SOMANY, MURUDESWAR CERAMICS Ltd.
47	False Floor	Hewetson, Unifloor, Unitile, kebao, Pinnacle
48	Engineered wood/LAMINATE flooring	Armstrong, wernel, Pergo, ACTION TESA, WELSPUN
49	Cement Concrete Parking tiles	NITCO, NTC, HINDUSTAN, PODDAR Eurocon, Dazzle ultra.
50	Interlocking Concrete Blocks	NITCO-(ROCKARD), BHARAT- (NILSAN) REGENCY, bESANT bEATONS
51	CLAY TILES ON ROOF	KENJAI, JOHNSON, COMMON WEALTH TRUST (IND) LTD

Sl. No.	Materials	Approved Make
52	TILE ADHESIVE	ARDEX ENDURA, CICO, PIDILITE, PERROUS, FOSROC, SIKA,ASIAN PAINTS
53	CHEQUERED TERRAZO TILES	NITCO, BHARAT, PODDAR
54	SYNTHETIC CARPET TILES	TOLI, HOLLITEX, STANDARD CARPETS, WELSPUN
55	GLASS MOSAIC TILES	ITALIA, PALLADIO, BISAZZA
56	PAINT/PRIMER/OIL BOUND DISTEMPER ACRYLIC PAINT	ASIAN PAINTS, ICI DULUX, NEROLAC, BERGER
57	WATER PROOF CEMENT PAINT	SNOWCEM INDIA LTD, ASIAN PAINTS, ICI DULUX, NIPPON PAINTS
58	SYNTHETIC ENAMEL PAINT	BERGER, NEROLAC, ASIAN, ICI DULUX
59	ACRYLIC TEXTURED PLASTER	ASIAN PAINTS, ICI DULUX, NEROLAC, BERGER
60	FIRE RETARDANT PAINT	JOTUN, HILTI, AKZONOBEL, NIPPON, ASIAN PAINTS
61	MIRROR GLASS	MODI GUARD, SAINT GOBAIN, ASAHI, ATUL
62	ANTI CORROSIVE BITUMASTIC PAINT	ASIAN / BERGER / SHALIMAR
63	EPOXY PAINT	BERGER PAINTS, ASIAN PAINTS, MRF, ARDEX ENDURA
64	EPOXY COATING	ARDEX ENDURA, BASF, FORSOC, LATICRETE, MRF,ASIAN PAINTS
65	STRUCTURAL SILICON/ WEATHER SILICON	DOW CORNING / WACKER / GE
66	ACRYLIC EXTERIOR PAINT	ASIAN PAINTS, ICI DULUX, BERGER, NEROLAC
67	ALUMINIUM SYSTEMS / ANODIZED ALUMINUM FITTINGS FOR DOORS /	HARDIMA, EVERITE, SIGMA (ISI MARKED) JYOTHI

Sl. No.	Materials	Approved Make
	WINDOWS / WINDOWS	
68	STAINLESS STEEL FITTINGS	DORSET, GODREJ, DORMA, OZONE, KITCH
69	ALUMINIUM SECTIONS	JINDAL, HINDALCO, INDALCO
70	FRICTION STAY HINGES	EBCO, HAFELE, SEVAX
71	ALUMINIUM COMPOSITE PANEL (ACP)	ALUCOBOND, EUROBOND, DURABUILD,4Mann
72	E.P.D.M. GASKETS	ANAND / ROOP / BOHRA / HANU / AMEE RUBBER
73	WATER PROOFING COMPOUND	SIKA, ACCOPROOF, IMPERMO, FOSROC PIDILITE, ARDEX ENDURA, BOSTIK, BERGER,ASIAN PAINTS, MYK ARMENT PVT LTD.
74	MEMBRANE WATERPROOFING SYSTEM	BASF, TEXSA, WR GRACE, PIDILITE, HYDRO TECH LTD. ARDEX ENDURA, BOSTIK, FOSROCK,ASIAN PAINTS, MYK ARMENT PVT LTD.
75	POLYMER BASED CONTENTIOUS WATER PROOF COATINGS	ARDEX ENDURA, BASF, MC-BAUCHEMIE, SIKA, FORSOLOC, PIDILITE, BERGER,ASIAN PAINTS, MYK ARMENT PVT LTD.
76	WATER STOPS	ARDEX ENDURA, HYDROTITE, BASF, HYDROSWELL, PIDILITE, BOSTIK,ASIAN PAINTS, MYK ARMENT PVT LTD.
77	PVC PERFORATED PIPES	REX POLYEXTRUSION LTD, AKASH ENTERPRISES, ZENPLAS PIPES PVT. LTD
78	MS PIPES	TATA, JINDAL, APOLLO
79	POLYSULPHIDE SEALANT	PIDILITE, CHEMETALL-RAJ, FOSROC, CHOKSEY CHEMICALS, TUFF SEAL, ASIAN PAINTS, MYK ARMENT PVT LTD.

Sl. No.	Materials	Approved Make
80	BITUMEN IMPREGNATED BOARD	SHALITEX OR EQUIVALENT
81	POLYETHYLENE BACKER ROD	SUPREME IND. LTD. OR EQUIVALENT
82	FALSE CEILING MEMBERS (PERIMETER, CEILING SECTION, INTERMEDIATES, ANGLES ETC.)	ARMSTRONG, GYP. ROCK (SAINT GOBAIN)
83	WELDING ROD	ADVANI, ESAB
84	METAL DECK SHEET	TATA, JINDAL, ALFA, KAILASH ROOFIN
85	SHEAR STUD / CONNECTOR	KOCO OR EQUIVALENT
86	CLAMP. REBAR, CHEMICAL FASTENER	HILTI, FISCHER, WURTH, AXEL
87	ANCHOR FASTENERS / BOLTS	HILTI, FISHER, CANON, BOSCH, AXEL
88	MASKING TAPES	3M, SUN CONTROL, WONDER POLYMER
89	DASH FASTENERS	HILTI, FISHER, CANON, BOSCH, AXEL
90	STAINLESS STEEL BOLTS, WASHERS AND NUTS	ATUL / HILTI / GRIPWELL / NAKODA
91	GRC JALI	TERRAFIRMA, ECOVISION, BIRLA WHITE GRC, EVEREST GRC
92	STAINLESS STEEL	SALEM, JINDAL, SAIL
93	POLYCARBONATE SHEET	DANPALON, ALCOX, POLYGAL, V.A. CORPORATION, ALFA, GE, LEXON, TUFLITE
94	PT STRANDS	DP WIRES, TATA, USHA MARTIN
95	ADHESIVE (MANUFACTURE SPECS)	ARDEX ENDURA, DUNLOP, VAMORGANIC, SIKA, FOSROC, PIDLITE, BOSTIK, ASIAN PAINTS
96	GROUTS	KERAKOLL, WEBER, ARDEX ENDURA, BOSTIK, FOSROCK, PIDILITE,ASIAN

Sl. No.	Materials	Approved Make
		PAINTS, MYK ARMENT PVT LTD.
97	SOLAR STUDS / MEDIAN MARKERS	3M, AVERY DENNISION, NIKKALITE
98	POLYCARBONATE CONVEX MIRRORS, RUBBERISED ROAD HUMP	UNIQUE SAFETY SOLUTIONS
99	AIR TRANSFER GRILLS	COOL GRILLS PUNE, SYSTEMAIR INDIA
100	THERMAL INSULATION TREATMENT	PIDILITE, BASF, BERGER, ARDEX ENDURA
101	VITREOUS WC / WASH BASIN	PARRYWARE, HINDWARE, CERA, JAQUAR
102	GULLYTRAPS	PERFECT, PARRY
103	STAINLESS STEEL SINKS	NILKANTH, AMC, COBRA, NIRALI, DIAMOND, HINDWARE
104	C. P. BRASS FITTINGS	JAQUAR, PARKO, MARC, HINDWARE, PARRYWARE, KINGSTON
105	GI PIPES	TATA, JINDAL, HISSAR
106	GI PIPE FITTINGS	ZOLOTO, UNIK, HB, ICS
107	RCC PIPES	INDIAN HUME PIPE, MOHAN HUME PIPE, BANGALORE CEMENT PIPES
108	SPUN CAST IRON COVERS & GRATINGS	NECO, SKF/ BENGAL IRON CORPORATION
109	SPUN CAST IRON PIPES	NECO, SKF/ BENGAL IRON CORPORATION
110	SPUN CAST IRON FITTINGS	NECO, SKF/ BENGAL IRON ORPORATION
111	SWR PVC PIPES AND FITTINGS	SUPREME, FINOLEX, PRINCE, ASTRAL
112	CPVC PIPE AND FITTINGS	SUPREME, ASHRIVAD, FINOLEX, PRINCE, FLOWGARD, ASTRAL, PRAYAG
113	UPVC PIPES	SUPREME, PRINCE, FINOLEX
114	WATER SUPPLY VALVES	ZOLOTO, LEADER, ARCO
115	CI MANHOLE COVER	NECO, BIC

Sl. No.	Materials	Approved Make
116	SFRC COVER AND GRATING	TULSHI CONCRETE, KK, ADVENT, NEWTECH
117	AIR RELEASE VALVES	KIRLOSKAR, RBM, KARTAR
118	CI DOUBLE FLANGE SLUICE VALVE	KIRLOSKAR, RBM, KARTAR
119	PLASTIC ENCAPSULATED FOOT REST	KK INDIA, KGM, ACCURATE BUILDCON
120	GUN METAL VALVES	ZOLTO, LEADER, SANT, ANDCO INDIA
121	CI DOUBLE F LANGED SLUICE VALVES	KIRLOSKAR, IVS, BURN, ZOLOTO, LEADER
122	CI DOUBLE FLANGED NON-RETURN VALVES	KIRLOSKAR, FLUIDTEH, ZOLOTO
123	SANDWICH PU PANELLED ROOFING SHEETS	LLOYD INSULATION (INDIA) LTD., JINDAL, MECTEC PVT LTD., TATA
124	GALVALUME SHEET	LLOYD (INDIA) LTD., JSW, TATA BLUESCOPE
125	CRYTALLINE WATER PROOFING ADMIXTURE AND COMPOUND	PENETRON, KRYTON, PIDILITE, FOSROC. ASIAN PAINTS, MYK ARMENT PVT LTD.
126	STAINLESS STEEL WATER SUPPLY PIPES	JINDAL, SWASTIK, RAMPPART, J-PRESS.
127	HERMETICALLY SEALED PERFORMANCE GLASS, TOUGHENED, DGU, SGU, TOUGHENED LAMINATED GLASS	AUTHORISED TOUGHENERS OF (MODI GUARD, SAINT GOBAIN, ASAHI, AIS/GLAVERBEL, PILKINGTON
128	ORDINARY PORTLAND CEMENT (43 grade)AND PORTLAND POZZOLONA CEMENT	ACC CEMENT,ULTRATEC CEMENT, COROMANDAL CEMENT, BIRLA CEMENT, CHETTINADU CEMENT, BHARATI CEMENT , DALMIA CEMENT. ZUARI CEMENT, JAYPEE CEMENT ,MAHA CEMENT, J.K.CEMENT , AMBUJA CEMENT , CENTURY CEMENT, PENNA CEMENT , RAMCO CEMENT
129	PLASTICISER AND SUPER PASTICISER	AS PER CEMENT MANUFACTURER'S RECOMMONDATION,MYK ARMENT

Sl. No.	Materials	Approved Make
		PVT LTD
130	EXPANSION JOINT BITUMEN BOARD	DURA BOARD HD100, DURAFILL
131	HIGH DENSITY PRELAMINATEDEBOARD	PERGO, GREEN PLY INDUSTRIES LTD.
132	SS BUTT HINGES	OZONE , DORMA, GEZE
133	REFLECTIVE GLASS	SAINT GOBAIN , ASAHI , PILKINGTON, MODI FLOAT, GLAVERBEL
134	PREMIER ACRYLIC SMOOTH EXTERIOR PAINT WITH SILICON ADDITIVES	ASIAN PAINT, ICI DULUX, NEROLOC BERGER
135	CEMENT BASED WALL PUTTY	JK WALL PUTTY, BIRLA WALLCARE, ASIAN PAINTS
136	FLUSHING CISTERN	KOHLER, GROHE, JAQUAR
137	PE-AL-PE COMPOSITE PIPES	KITECH, VECTUS, JINDAL
138	PVC /HDPE WATER STORAGE TANKS	VECTUS, SYNTEX, SUPREME
139	WATER SUPPLY FIXTURES	JAQUAR, HINDWARE
140	ANODISED A LUMINIUM FITTINGS FOR DOORS AND WINDOWS	DEFNE, SCHUECO, BHORUKA, KAWANEER, HARDIMA, EVERITE, JYOTHI, SIGMA
141	STRUCTURAL GLAZING	MODI, SAINTGOBAIN, ASAHI, GLAVERBEL
142	MULTI WALLED POLYCARBONATE ROFING SHEETS	DANPALON, LEXAN GE, DPI DAYLIGHT.
143	WALL PANELLING	ANUTONE, HIMALAYAN ACCOSTICS, ARMSTRONG.