

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

**Name of Work: A/R & M/O Various Electrical and mechanical service of New Doctor's Hostel at ABVIMS at Dr. RML Hospital New Delhi during 2026-27.
(Electrical Work & Civil Work).**

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It is certified that this document contains three parts i.e. Part A, Part B & Part C containing Page No. 1 to 186.

<u>NOTICE INVITING TENDER</u>

N.I.T. No.	11/SE/DC-9/2026-27
Name of work	A/R & M/O Various Electrical and mechanical service of New Doctor's Hostel at ABVIMS at Dr. RML Hospital New Delhi during 2026-27. (Electrical Work & Civil Work).
Estimated Cost	Rs. 4,09,58,408/- {E & M Work: Rs. 3,05,38,975/- + Civil Work: Rs. 1,04,19,433/-}
Earnest Money	Rs. 8,19,168/-
Performance Guarantee	5% of the Estimated cost put to tender (ECPT) or contract amount whichever is higher i/c additional performance guarantee.
Security Deposit	2.5% of tendered value
Time Allowed	12 Months

This NIT for above work has been approved for Rs. 4,09,58,408/- (Rs. Four Crore Nine Lakh Fifty-Eight Thousand Four Hundred Eight Only). NIT contains 186 pages from 1 to 186.

- Sd-
Executive Engineer (C)
RML Hospital Division,
CPWD, New Delhi.

- Sd-
Executive Engineer (E)
RML Hospital Electrical Division,
CPWD, New Delhi.

Assistant Engineer (P) (C)
DC-9, CPWD,
IP Bhawan, New Delhi.

Assistant Engineer (P) (E)
DC-9, CPWD,
IP Bhawan, New Delhi.

Superintending Engineer
DC-9, CPWD,
IP Bhawan, New Delhi.

PART- A

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING

Executive Engineer (E), RML Hospital Electrical Division, CPWD, New Delhi (Tel. No. 011-23365068 e-mail id: deleermlhed.cpwd@nic.in) on behalf of the President of India invites online composite percentage rate bids from approved and eligible contractors of Building and Road Category of appropriate class enlisted in CPWD for following work:

S.No.	NIT No.	Name of work	Estimated Cost put to bid	Earnest Money	Period of Completion	Last date & time of submission of Eligibility and financial bids, EMD and other documents as specified.	Time & date of opening of bid
1	2	3	4	5	6	8	9
1	11/SE/DC-9/2026-27	A/R & M/O Various Electrical and mechanical service of New Doctor's Hostel at ABVIMS at Dr. RML Hospital New Delhi during 2026-27. (Electrical Work & Civil Work).	Rs. 4,09,58,408/- {E & M Work: Rs. 3,05,38,975/- + Civil Work: Rs. 1,04,19,433/-}	Rs. 8,19,168/-	12 Months	Up to 4:30 PM On 03/10/2026	Up to 5:00 PM on 03/10/2026

**** To be filled in by Tender Inviting Authority**

- The successful bidder (to be called as **Main Contractor**) shall post tender associate Specialized Agency(s) for execution of each of the specialized work(s) as per the details mentioned in "Special Conditions for association of Specialized Agencies".
- The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
- Information and Instructions for bidders posted on website shall form part of the bid document.
- The bid document consisting of specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <https://etender.cpwd.gov.in> free of cost.

Bidders are advised to keep visiting the above-mentioned website from time to time (till the deadline for bid submission) for any updates in respect of the tender documents, if any. Failure to do so shall not absolve the applicant of his liabilities to submit the applications complete in all respect including updates thereof, if any. An incomplete application may be liable for rejection.

5. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft or Banker's Cheque or Fixed Deposit Receipt (FDR), or Bank Guarantee including e-Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank drawn in favour of **Executive Engineer, Dr. RML Hospital Division, CPWD, New Delhi** 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 of division office or any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by the tender inviting EE in the NIT.
6. But the bid can only be submitted after deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned documents. The EMD documents shall only be issued from the place in which the office of receiving division office is situated.
7. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website www.etender.cpwd.gov.in or www.cpwd.gov.in for free of cost.
8. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
9. The intending bidder must have valid class-III digital signature to submit the bid.
10. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
11. Contractor can upload documents in the form of JPG format and PDF format.
12. Contractor must ensure to quote rate in the prescribed column(s) meant for quoting rate in figures appears in yellow colour and the moment rate is entered, it turns sky blue.

In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).

However, if a 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 / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

The quoted rate shall be inclusive of all Taxes, Royalty, Octroi, GST etc. payable to workers under labour act. No reimbursement shall be made for taxes paid like GST etc.
13. The bidders are advised to inspect and examine the site & its surroundings and satisfy themselves before submitting their tender. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent upon any misunderstanding or otherwise shall be allowed.
14. It is mandatory to fill details / upload scanned copies of all the documents as stipulated in the bid document. If such document is not uploaded his bid will become invalid and processing fee shall not be refunded.
15. If the Contractor is found ineligible after opening of bids, his bid shall become invalid.
16. 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 Contractor, the bid shall become invalid.
17. Aadhaar enabled Biometric attendance system for all deployed workers shall be provided, installed at site at suitable locations and maintained in good working condition by the contractor at his own

cost, for which nothing extra shall be paid. In & out, both timings should be marked by every engaged staff in. Biometric attendance machine failing which it will be treated as absent. In Round the clock shift duty, current shift staff will relive only when staff of next shift join duty for staff working in shifts.

18. List of Documents to be scanned and uploaded within the period of bid submission. Non submission will render the contractor ineligible.

S.No.	For eligible CPWD Registered Contractors
1.	Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft or Banker's Cheque or Fixed Deposit Receipt (FDR), or Bank Guarantee including e-Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank drawn in favour of Executive Engineer, Dr. RML Hospital Division, CPWD, New Delhi 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 of division office or any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by the tender inviting EE in the NIT.
2.	Copy of receipt for deposition of original EMD issued from division office of any Executive Engineer (including / NIT issuing EE/AE), CPWD.
3.	Copy of Enlistment Order of CPWD Contractor in Building and Road Category of appropriate class.
4.	GST Registration Certificate of the State in which the work is to be taken up, if already obtained by the bidder. If the bidder has not obtained GST registration in the State in which the work is to be taken up, or as required by GST authorities then in such a case the bidder shall scan and upload following undertaking along with other bid documents. "If work is awarded to me, I/we shall obtain GST registration Certificate of the State, in which work is to be taken up, within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by CPWD or GST department in this regard."
5.	Valid Electrical Contractor License or undertaking that they will either obtain valid electrical license at the time of execution of electrical work or associate contractor having valid electrical license of appropriate class.
6.	Undertaking by Contractor on his letter head in the following format: "In case, we become first lowest tenderer and we are not eligible agency as per eligibility criteria; we will associate eligible agency fulfilling eligibility criteria as per NIT and will submit documents as required."
7.	Undertaking by contractor on his Letter-Head in the following format: "I/We Declare that, I/We have not been Debarred/Blacklisted by Central Government/State Government."

8.	The existing enlisted contractor either himself or his authorized representative shall take compulsory ERP (Enterprise Resource Planning) training through any of the CPWD Regional Training Institutes (RTIs) at Delhi, Mumbai, Chennai and Kolkata, National CPWD Academy (NCA) Ghaziabad, Training arranged by Graduates of ERP "Train the Trainers Programme" conducted by NCA, Ghaziabad or through any other special training arranged by ERP unit of CPWD before 30.06.2024. Training will be valid only when participants are registered in LMS (Learning Management System) of ERP and certificate is issued through LMS of ERP. From 01.07.2024, the enlisted contractor will not be allowed to participate in tendering process without uploading the certificate of above training. (OM No. DG/Enlist. Rules-2023/ 10 dated 22.04.2024)
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19. Documents to be submitted at the time of submission of Performance Guarantee by the lowest tenderer:

- (i) Authorization certificate from OEM.
- (ii) Undertaking from OEM for this work for unconditional support technically throughout the execution of work and useful life of the system.
- (iii) Undertaking from OEM for this work, providing all spares required for healthy functioning of the equipment for at least seven years from the date of supply of equipment.
- (iv) Documents of the associate Specialized Agency / authorization from OEM, meeting criteria mentioned in NIT, if the B&R category contractor himself is not eligible. If eligible, then all the related documents of himself specialized work experience shall be deposited with PG.

कार्यपालक अभियंता (वै.)
राम मनोहर लोहिया वैद्युत मंडल,
के.लो.नि.वि., नई दिल्ली

For & on behalf of President of India

CPWD-6 FOR E-TENDERING

1. Executive Engineer (E), RML Hospital Electrical Division, CPWD, New Delhi (Tel. No. 011-23365068 / e-mail id: deleermlhed.cpwd@nic.in) on behalf of the President of India invites online composite percentage rate bids from approved and eligible contractors of Building and Road Category of appropriate class enlisted in CPWD for following work:

“A/R & M/O Various Electrical and mechanical service of New Doctor’s Hostel at ABVIMS at Dr. RML Hospital New Delhi during 2026-27. (Electrical Work & Civil Work).”

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.

The work is estimated to Rs. 4,09,58,408/- {E & M Work: Rs. 3,05,38,975/- + Civil Work: Rs. 1,04,19,433/-} This estimate, however, is given merely as a rough guide.

2. Agreement shall be drawn with the successful bidders on prescribed Form No. **CPWD-7** which is available at a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders shall quote their 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 first date of handing over of the site, whichever is later, in accordance with 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 the 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 on website <https://etender.cpwd.gov.in> free of cost.
After submission of the bid the contractor can re-submit revised bid any number of times but before last date and time of online submission of bid as notified.
6. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last date and time of online submission of bid as notified.
7. The contractor already registered on the e-tendering portal will have option to continue by paying tender processing fee upto one year from the date of registration, or to switch over to (new) registration without tender processing fee any time. All new registrations from 01.04.2015 will be without tender processing fee.
8. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft or Banker’s Cheque or Fixed Deposit Receipt (FDR), or Bank Guarantee including e-Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank drawn in favour of **Executive Engineer, Dr. RML Hospital Division, CPWD, New Delhi** 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 of division office or any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by the tender inviting EE in the NIT.

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 including e-Bank Guarantee of any Commercial Bank having validity for a period of 90 days for single bid work and 180 days for two bid system 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 notice inviting e-tender shall be scanned and uploaded to the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in e-tender notice shall have to be submitted by the lowest bidder within a week physically in the office of tender opening authority. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose original EMD deposited with any Division of C.P.W.D, and other documents scanned and uploaded are found in order.

The bid submitted shall be opened at 5:00 PM on 03/10/2026

(To be filled in by Tender Inviting Authority)**

The contractors registered prior to 01-04-2015 on e-tendering portal of CPWD shall have to deposit bid processing fee at existing rates, or they have option to switch over to the new registration system without bid processing fee any time.

9. The bid submitted shall become invalid and e-Tendering processing fee (if applicable) shall not be refunded if:
 - (i) The bidder is found ineligible.
 - (ii) The bidder does not upload all the documents as stipulated in the bid document.
 - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.
 - (iv) If a tenderer quotes nil rates or does not quote any percentage above/below on the total amount of the tender in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
10. The contractor whose bid is accepted will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in Schedule E and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee.

The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the sub- contractors, if any engaged by the contractor for the said work within the period specified in Schedule F.

Description of the work is as follows:

“A/R & M/O Various Electrical and mechanical service of New Doctor’s Hostel at ABVIMS at Dr. RML Hospital New Delhi during 2026-27. (Electrical Work & Civil Work).”

Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be

deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

11. 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.
12. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
13. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
14. The contractor shall not be permitted to bid for works in the CPWD/PWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Gazetted Officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
15. 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 Two Years after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
16. The bids for the work shall remain open for acceptance for a period of 30 (thirty) days from the date of opening of bids.

Further

- (i) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
- (ii) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of submission of bids, then the Government shall without prejudice to any other right 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) 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.

17. 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:

The Notice Inviting Bid, all the documents including General/Additional/Special Conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.

- a) Standard C.P.W.D. Form 7.

18. The quoted rate shall be inclusive of all Taxes, Royalty, Octroi, GST etc. payable to workers under labour act. No reimbursement shall be made for taxes paid like GST etc.

19. The Executive Engineer in charge of the major component will call bids for the composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid.

21.1.1 The bid document will include following three components:

Part A: CPWD-6, Schedule **A to F** of the work for major components, CPWD-7 including Standard General Conditions of Contract for **GCC 2026 for Maintenance Works**.

Part B: Additional conditions, specifications and schedule of quantities applicable to major component(s) of the work (Electrical & Mechanical).

Part C: Additional conditions, specifications and schedule of quantities applicable to minor component of the work (Civil).

21.1.2 The Bidders must associate himself, with agencies as per NIT conditions.

21.1.3 The eligible bidders shall quote rates for all items of major component as well as for all items of minor components of work.

21.1.4 After acceptance of the bid by competent authority, the Executive Engineer 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 Executive Engineer in charge of major component and has also to sign two or more copies of agreement depending upon number of EE in-charge of minor components. One such signed set of agreement shall be handed over to EE in-charge of minor component(s).

Executive Engineer of major component will operate Part-A and Part-B of the agreement. EE in-charge of minor component shall operate Part-C alongwith Part-A of the agreement.

21.1.5 Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.

21.1.6 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.

21.1.7 The main contractor has to associate agencies for specialized component(s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer-in-Charge of relevant component(s) within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-Charge of relevant component(s).

21.1.8 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 minor component.

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 such agency, he shall direct the contractor to change the agency executing such item of work and this shall be binding on the contractor.

- 21.1.9** The main contractor has to enter into MoU with agency(s) associated by him. Copy of such agreement shall be submitted to EE in-charge of each relevant component as well as to EE in-charge of major component. In case of change of associate contractor, the main agency(s) has to enter into MoU/agreement with the new contractor associated by him.
- 21.1.10** Running payment for the major component shall be made by Executive Engineer 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.
- 21.1.11A** The Composite work shall be treated as complete when all the components are complete. The completion certificate of composite work shall be recorded by Engineer-In-charge of major component after record of completion certificate of all other components.
- 21.1.11B.** Final bill of whole work shall be finalized and paid by the EE of major component. Engineers-in-charge of minor components will prepare and pass the final bill for their component of work and pass on the same to the Executive Engineer of major component for including in the final bill for composite contract.
- 22.** The intending bidders are required to update their profile in CPWD e-tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile/uploading tender can be resolved through the concerned Executive Engineer (E), RML Hospital Electrical Division, CPWD (Phone No. 011-23365068 e-mail id: deleermlhed.cpwd@nic.in) or ERP Helpline No. 18001803286 or e-mail Id cpwd.support@techmahindra.com. The e- tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.

कार्यपालक अभियंता (वै.)
राम मनोहर लोहिया वैद्युत मंडल,
के.लो.नि.वि., नई दिल्ली

For & on behalf of President of India

SPECIAL CONDITIONS FOR ASSOCIATION OF SPECIALIZED AGENCIES

1. The main contractor shall have to associate other specialised agency(s) (Joint ventures are not accepted) for execution of each of these specialized work(s), who fulfils the eligibility criteria as defined below, within 15 days of issue of letter of intent and also after taking prior approval from the Engineer-in-charge.
2. Conditions for specialised agency.
- 2.1 The specialised agency Should have satisfactorily completed the works as mentioned below during the last Seven years ending last day of the month previous to the one in which tenders are invited.

S. No.	Eligibility Criteria for approval of Specialized Agency
1.	Operation & Maintenance of Sub Station, DG set (Estimated Cost - Rs. 44,30,134/-)
	Three similar works each costing not less than Rs. 17,72,054/- OR Two similar works each costing not less than Rs. 26,58,080/- OR One similar work of aggregate cost not less than Rs. 35,44,107/- Similar Work shall means work of “ Operation / Maintenance of Sub Station, DG set ”
2.	Operation & Maintenance of Lift (Estimated Cost - Rs. 56,63,244/-)
	Three similar works each costing not less than Rs. 22,65,298/- OR Two similar works each costing not less than Rs. 33,97,946/- OR One similar work of aggregate cost not less than Rs. 45,30,595/- Similar Work shall means work of “ Operation / Maintenance of Lifts ”
3.	Operation & maintenance of Automatic Fire Alarm System (AFAS) & Fire Fighting (Estimated Cost - Rs. 61,83,510/-)
	Three similar works each costing not less than Rs. 24,73,404/- OR Two similar works each costing not less than Rs. 37,10,106/- OR One similar work of aggregate cost not less than Rs. 49,46,808/- Similar Work shall means work of “ Operation / Maintenance of Automatic Fire Alarm System (AFAS) & Fire Fighting ”

4.	SITC/Operation & Maintenance of Mechanised Car Parking Manually & EV Charging (Estimated Cost - Rs. 30,29,448/-)
	Three similar works each costing not less than Rs. 12,11,779/- OR Two similar works each costing not less than Rs. 18,17,669/- OR One similar work of aggregate cost not less than Rs. 24,23,558/- Similar Work shall means work of “SITC/Operation & Maintenance of Mechanised Car Parking Manually & EV Charging”
5.	RMO CCTV & EPBAX System (Estimated Cost - Rs. 18,50,115/-)
	Three similar works each costing not less than Rs. 7,40,046/- OR Two similar works each costing not less than Rs. 11,10,069/- OR One similar work of aggregate cost not less than Rs. 14,80,092/- Similar Work shall means work of “RMO CCTV & EPBAX System”
6.	RO System and water supply pump (Estimated Cost - Rs. 14,96,990/-)
	Three similar works each costing not less than Rs. 5,98,796/- OR Two similar works each costing not less than Rs. 8,98,194/- OR One similar work of aggregate cost not less than Rs. 11,97,592/- Similar Work shall means work of “RO System and water supply pump”

- 2.2 The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to previous day of last date of submission of bid.
- 2.3 Specilised agency should have average Annual Financial Turn Over (gross) of not less than 50% of Estimated cost of specilised work during the immediate last three consecutive financial years ending on 31st March 2026. This should be duly audited by Chartered Accountants.
- 2.4 Specilised agency should not have incurred any loss (profit after tax should be positive) in more than two years during the last five consecutive financial years ending 31st March 2026 duly audited and certified by the Chartered Accountant. (scanned copy of certificate from CA to be uploaded). The balance sheet in case of Pvt/Public Ltd company means its Standalone Finance Statement and Consolidated Financial Statement both)
- 2.5 Specilised agency should have Networth of minimum 10% of Estimated cost of specilised work certified by chartered accountant (Scanned copy of original Networth Certificate issued by Certified Chartered Accountant in Form B-1 to be uploaded).

Evaluation criteria for specialised agency

2.5.1 The details submitted by main contractor with respect to specialised agency will be evaluated for eligibility by Competent Authority or a Committee constituted by him. All the eligible similar works executed and submitted by the bidders may be got inspected by a committee which may consist of client or any other authority as decided by NIT approving authority. The marks for the quality shall be given based on this inspection, if inspection is carried out.

2.5.1.1 The initial criteria prescribed in para 2.1 to 2.5 above in respect of experience of eligible similar works completion, loss, solvency and financial turn over etc. will first be scrutinized and the bidder's eligibility for the work be determined.

2.5.1.2 The specialised agency qualifying the initial criteria as set out in Para 2.1 to 2.5 above will be evaluated for following criteria by scoring method on the basis of details furnished by them:

(a) Financial strength (Form 'A' & 'B')	Maximum 20 marks
(b) Experience in eligible similar nature of work during last seven years (Form 'C')	Maximum 20 marks
(c) Performance on works (Form 'D') – Time over run	Maximum 20 marks
(d) Performance on works (Form 'D') – Quality	Maximum 40 marks

Total 100 Marks

To become eligible for short listing the bidder must secure at least 50% marks in each (section a,b,c and d) and 60% marks in aggregate. The department, however, reserves the right to restrict the list of such qualified contractor to any number deemed suitable by it.

2.6 CRITERIA FOR EVALUATION OF THE PERFORMANCE OF CONTRACTORS FOR PRE-ELIGIBILITY:

	Attributes		Evaluation	
(a)	Financial strength (i) Average annual turnover (ii) Solvency Certificate	(20 Marks) 16 Marks 4 Marks	(i) 60% marks for minimum eligibility criteria. (ii) 100% marks for twice the minimum eligibility criteria or more In between (i) & (ii) – on pro-rata basis.	
(b)	Experience in similar Class of works	(20 Marks)	(i) 60% marks for minimum eligibility criteria (ii) 100% marks for twice the minimum eligibility criteria or more In between (i) & (ii) – on pro-rata basis.	
(c)	Performance on works (Time Over Run)	(20 Marks)		
	Parameter	Calculation for points	Score	Maximum Marks
	If TOR (Time Over Run)		1.00 2.00 3.00 > 3.50	20
	(i) Without levy of compensation.		20 15 10 10	
	(ii) With levy of compensation.		20 5 0 -5	
	(iii) Levy of compensation not decided		20 10 0 0	
	TOR = AT/ ST, where AT = Actual time; ST = Stipulated Time in the agreement plus justified period of extension of time. Note: Marks for value in between the stages indicated above is to be determined by straight line variation basis.			
(d)	Performance of works (Quality)		(40 Marks)	

(i) Outstanding	40
(ii) Very Good	30
(iii) Good	20
(iv) Poor	0

Also, the main contractor shall have to associate the manufacturer /Authorized Service agencies for execution of each of the specialized work(s) as mentioned below:

A.	Comprehensive Maintenance of DG set (Kirlosker make)
B	Comprehensive Maintenance of Lift (Mitsubishi Elevators make)
C	Comprehensive Maintenance of Car Parking System (WOHR make)
D	Repair and Maintenance of RO system through OEM/Authorised dealer of Eureka Forves, make.

3. However, the Main Contractor shall also be eligible to carry out himself any or all of the above specialized works without associating any specialized agency provided they fulfil the prescribed eligibility criteria for each of the above specialized work(s).
4. The intending bidder shall upload an undertaking along with the bid that “I/We shall associate specialized agencies as per the above eligibility criteria within 15 days of issue of letter of intent otherwise department may take action against me/us as per clause-3 of the applicable GCC of the agreement & may forfeit performance guarantee absolutely and also shall fulfil all the formalities for association of the specialized agencies as per the conditions mentioned in the “***Special Conditions for Association of Specialized Agencies***”.
5. The main contractor shall have to submit credential such as self attested copies of Certificates of Work Experience/Completion issued by client department clearly indicating; 1. Name of Work, 2. Scope of Work, 3. Agreement No., 4. Estimated Cost, 5. Tendered Cost, 6. Final Value of Work Done, 7. Date of Start, 8. Stipulated date of Completion, 9. Actual date of completion, 10. Nature of the Work/Rating of Transformers & D.G. sets etc. (In case some of above said details are not mentioned in the Completion certificate, the firm shall attach sample proof in support of above details), self-attested copy of valid Electrical contractor license, GST registration of the proposed associated specialized agencies for verification (if required) and for approval of the department as per eligibility requirement mentioned in above as per **FORM-II** within 15(fifteen) days from date of issue of Letter of Intent (LOI). Main contractor shall 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 of proposed associated specialized agencies along with above documents.
6. Consent letter of such selected associated specialized agencies for association shall also be enclosed in the prescribed format as per **FORM-I** along with documents mentioned at Sl. No-6 above.
7. If the main contractor fails to submit all the documents of the proposed associated specialized agency(s) as mentioned at **Sl. No. 6 & 7** above, within 15 (fifteen) days from date of issue of Letter of Intent, then action shall be taken as per the procedure under Clause-3 of GCC of the agreement.
8. After approval of associated specialized agencies by Engineer-in-Charge, the main contractor will submit MoU signed with the Associated Specialized Agency as per **FORM-III** in shape of affidavit on stamp paper duly attested by notary in original within 5 (Five) Days after issue of approval letter (for Associate Specialized Agency). The MoU shall be signed by both the parties i.e. Main

Contractor as 1st party and Associated Specialized Agency as 2nd party, independently for all specialized work(s).

9. All technical discussions during currency of contract shall be attended by the Associated Specialized Agencies and the Main Contractor. Commercial/Technical submissions for the specialized work(s) shall be signed and submitted by the Associate Specialized Agencies along with the Main Contractor.
10. The Associated Specialized Agencies and the Main Contractor shall attend the site during inspection of the work by the Engineer-in-Charge or higher authority.
11. The Main Contractor shall be entirely responsible and answerable for all the works done by his Associated Specialized Agency regarding their quality, adherence to the laid down specification, terms and conditions, warranty/guarantee etc. as per the agreement and he shall be liable to bear any compensation that may be levied by the department under any of the clauses of the agreement.
12. In the event of the concerned Associated Specialized Agency not performing satisfactorily or failure to complete the specialized works(s), the Main Contractor on written directions of the Engineer-in-Charge, shall remove the Associated Specialized Agency deployed on the work and shall submit name of new associated specialized Agency as per eligibility criteria mentioned in the NIT to execute the left over specialized work(s) without any loss of time after completion of all formalities mentioned as above in **S. No. 2, 6 & 7**.

Also, if Main Contractor wants to change the Associated Specialized Agency during the currency of the contract he shall submit name of new Associated Specialized Agency as per eligibility criteria mentioned in the NIT to execute the left over specialized work(s) after completion of all formalities mentioned as above in **S. No. 2, 6 & 7**.

The Main Contractor shall be responsible and liable for proper and complete execution of the all works including specialized work(s) and ensure coordination and completion of all associated specialized works.

13. Running payment for the work shall be made to the Main Contractor. In case, Main Contractor fails to make the payment to the Associated Specialized Agency(s) by him within 15 days of receipt of each running account payment then on the written complaint of any Associated Specialized Agency(s) for such work, Engineer-in-Charge shall serve the show cause notice to Main Contractor and after considering the reply of the same he may make the payment directly to the concerned Associated Specialized Agency(s) for the work as per the terms & conditions of the agreement/MoU drawn between Main Contractor and Associated Specialized Agency(s) fixed by him, if reply of main contractor either not received or found unsatisfactory. Such payment made to the Associated Specialized Agency(s) shall be recovered by Engineer-in-Charge from the next RA/final bill due to Main Contractor as the case may be.

कार्यपालक अभियंता (वै.)
राम मनोहर लोहिया वैद्युत मंडल,
के.लो.नि.वि., नई दिल्ली

For & on behalf of President of India

FORM –I**CONSENT LETTER FROM ELIGIBLE ASSOCIATE AGENCY OF SPECIALIZED WORK(S)**

Name of Work: **“A/R & M/O Various Electrical and mechanical service of New Doctor’s Hostel at ABVIMS at Dr. RML Hospital New Delhi during 2026-27. (Electrical Work & Civil Work).”**

1. I / We hereby give my consent to associate with M/s, for executing the work of (Mention specialized work(s)).
2. I / We will execute the work as per specifications and conditions of the agreement and as per directions of the Engineer-in-Charge for the corresponding specialized work(s) till the completion of the work.
3. I / We will be responsible for necessary action to handover of the installations and for rectification of defects and repair during the maintenance / warranty period.
4. Also I / We will employ full time technically qualified Engineer / supervisor for the specialized work(s) component of the work as required for the work and list of same shall be made available to Engineer-in-Charge. I / We will attend inspection of officers of the department as and when required.

Date:

Signature with date of Main
Agency/Contractor

Signature with date of
AssociateSpecialized Agency

Address:

Address:

1. Witness with address
(From Main Contractor side)

2. Witness with address
(From Associated Agency side)

FORM –II**PROPOSAL FOR ELIGIBLE ASSOCIATING AGENCIES FOR SPECIALIZED WORK(S)**

I/we hereby propose the following agencies to be associated as per mentioned against each for executing corresponding specialized work(s). Their consent letters are also attached as per **FORM-I**

Sl. N.	Name of Associated Specialized Agency	Category and class of CPWD registration/ Enlistment (if any)	Registration/ Enlistment copy/ completion Certificates attached	Validity of registration/ Enlistment	Value of Gross Work Done of Specialized work	Experience Certificate attached (Yes/No)	Consent letter attached (Yes/No)
Sub Work – I							
1							
2							
3							
Sub Work – II							
1							
2							
3							

Signature of Main Contractor

FORM-III
MEMORANDUM OF UNDERSTANDING [MoU] BETWEEN

1] M/s [Name of the firm/agency with full address]

Enlistment Status:

Valid Upto:

[Henceforth, called the Main Contractor]

and

2] M/S [Name of the firm/agency with full address]

Enlistment Status:

Valid Upto:

[Henceforth, called Associated Specialized Agency]

For the execution of Specialized Component of Work(s):.....

.....of main work **“A/R & M/O Various Electrical and mechanical service of New Doctor’s Hostel at ABVIMS at Dr. RML Hospital New Delhi during 2026-27. (Electrical Work & Civil Work).”** as per schedule, specifications, terms and conditions of the agreement.

We state that MoU between us will be treated as an agreement and has legality as per Indian Contract Act [amended upto date] and the department [CPWD] can enforce all the terms and conditions of the agreement for execution of the above work. Both of us shall be responsible for the execution of work as per the agreement to the extent this MOU allows. Both the parties shall be paid consequent to the execution as per agreement to the extent this MoU permits. In case of any dispute, either of us will go for mediation by the EE (C) / EE (E), Dr. RML Hospital, CPWD, New Delhi. Any of us may appeal against the mediation to the Superintending Engineer, DC-9, CPWD, New Delhi. His decision shall be final and binding on both of us.

We have agreed as under:

- 1) The Associated Specialized Agency will execute all above specialized work(s) in the wholesome manner as per terms and conditions of the agreement and as per the direction of the Engineer-in-Charge.
- 2) That the Associated Specialized Agency has gone through the contract and has understood the scope of work required for the purpose of executing the specialized work(s).
- 3) All the machinery and equipments, tools and plants, special T&P required for execution of the specialized work(s), as per agreement, shall be the responsibility of the Associated Specialized Agency.
- 4) The site staff required for the specialized work(s) shall be arranged by the Associated Specialized Agency as per terms and conditions of the agreement.
- 5) Site order book maintained for the said work shall be signed by the authorized representative of Main Contractor as well as associated specialized Agency.
- 6) All the correspondence regarding execution of the specialized work(s) shall be done by the Department with the Main Contractor. In case of non-compliance of the provisions of agreement, the Main Contractor, as well as the Associated Agency shall be responsible. The action under clauses 2 and 3 shall be initiated and taken against the Main Contractor.

Signature of Main Contractor

Signature of Associated Specialized Agency

Date:

Date:

Place:

Place:

FINANCIAL INFORMATION

- I.** Financial Analysis - Details to be furnished duly supported by figures in balance sheet / Profit and Loss account for the last five years duly certified by the Chartered Accountant as submitted by the Applicant to the Income - Tax Department (copies to be attached). (The balance sheet in case of Pvt./ Public Ltd. Company means its standalone finance statement and consolidated financial statement both) **(copies to be attached).**

Particulars	Years				
	2021-22	2022-23	2023-24	2024-25	2025-26
i) Gross Annual turnover on construction works.*					
ii) Profit (After tax) / Loss.*					

*** The bidder should give information strictly in above format.**

- II.** Financial arrangements for carrying out the proposed work.
- III.** Networth Certificate from Chartered Accountant of the bidder in the prescribed Form“B-1”.

Signature of Accountant with Seal Signature of Bidder(s).

FORM “B”***FORM OF BANKERS’ CERTIFICATE FROM A SCHEDULED BANK***

This is to certify that to the best of our knowledge and information that M/s. Sh.....having marginally noted address, a customer of our bank are/is respectable and can be treated as good for any engagement upto a limit of Rs...).

This certificate is issued without any guarantee or responsibility on the bank or any of the officers.

(Signature) For
the Bank

NOTE:- (1) Bankers certificates should be on letter head of the Bank, addressed to tendering authority.
(2) In case of partnership firm, certificate should include names of all partners as recorded with the Bank.

FORM “B-1”**FORM FOR CERTIFICATE OF NET WORTH FROM CHARTERED ACCOUNTANT**

“It is to certify that as per the audited balance sheet and profit and loss account during the financial year 2025-26, the net worth of M/s (Name & Registered address of individual / firm / company). As on(the relevant date) is Rs. after considering all liabilities. It is further certified that the Net worth of the company has not eroded by more than 30% in the last three years ending on the relevant date.

Signature of Chartered Accountant.....
Name of Chartered Accountant
Membership no. of ICAI.....
Date and Seal.....

FORM 'C'

**DETAILS OF ELIGIBLE SIMILAR NATURE OF WORKS COMPLETED
DURING THE LAST SEVEN YEARS ENDING LAST DAY OF MONTH
PREVIOUS TO THE ONE IN WHICH TENDERS ARE INVITED.**

Sl. No.	Name of work / project and location	Owner or sponsoring organization	Cost of work in Crores of rupees	Date of Commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation / arbitration cases pending/ in progress with details*	Name and Address (Postal & E-mail) / telephone number of officerto whom reference	Whether the work was done on back to back basis Yes /No
1	2	3	4	5	6	7	8	9	10

* Indicate gross amount claimed and amount awarded by the Arbitrator.

Signature of Bidder(s)

FORM 'D'**PERFORMANCE REPORT OF WORKS REFERRED TO IN FORMS "C"**

1. Name of work/project & location:-
2. Agreement no:-.
3. Estimated cost:-
4. Tendered cost:-
5. Date of start:-
6. Date of completion:-
- (i) Stipulated date of completion:-
- (ii) Actual date of completion:-
7. Amount of compensation levied for delayed completion, if any
- (a) Whether case of levy of compensation for delay has been decided or not:
- (b) If decided, amount of compensation levied for delayed completion, if any:-
8. Amount of reduced rate items, if any:
9. Performance Report

(1) Quality of work	Outstanding/Very Good/Good/Poor
(2) Financial soundness	Outstanding/Very Good/Good/Poor
(3) Technical Proficiency	Outstanding/Very Good/Good/Poor
(4) Resourcefulness	Outstanding/Very Good/Good/Poor
(5) General Behaviour	Outstanding/Very Good/Good/Poor

Dated:

Executive Engineer or Equivalent with Stamp

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT
Percentage Rate Tender & Contract for Works**

Tender for the work “A/R & M/O Various Electrical and mechanical service of New Doctor’s Hostel at ABVIMS at Dr. RML Hospital New Delhi during 2026-27. (Electrical Work & Civil Work).”.

(i) To be submitted online by **4:30 PM** on 03/10/2026 to Executive Engineer (E), RML Hospital Electrical Division, CPWD, New Delhi.

(ii) Eligibility bid to be opened online in presence of tenderers who may be present at **5:00 PM** on 03/10/2026 in the office of Executive Engineer (E), RML Hospital Electrical Division, CPWD, New Delhi.

**** To be filled by Tender Inviting Authority.**

TENDER

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

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

I/We agree to keep the tender open for **Thirty (30)** days from the date of opening of technical/**eligibility** bid and not to make any modification in its terms and conditions.

I/We have deposited EMD of **Rs. 8,19,168/-** 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 including e-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 and 12.3 of the tender form.

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

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

I/We hereby declare that I/We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived 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 & integrity of the State.

Dated:

Signature of Contractor

Witness:

Address:

Postal Address:

Occupation:

ACCEPTANCE

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

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

- (a) -----*
- (b) -----*
- (c) -----*

For & on behalf of the President of India
Signature.....*

Dated*

Designation.....*

*** To be filled by EE.**

PROFORMA OF SCHEDULES

(Separate Performa for Civil, Elect. & Hort. Works in case of Composite Tenders)

PROFORMA OF SCHEDULES FOR E&M WORKS (Major Component)

SCHEDULE 'A'				
Schedule of Quantities		E&M		Attached
SCHEDULE B				
Schedule of materials to be issued to the contractor:			NIL	
SCHEDULE C				
Tools and plants to be hired to the contractor:			NIL	
SCHEDULE 'D'				
Extra schedule for specific requirements/documents for the work, if any:			NIL	
SCHEDULE 'E'				
Reference to General Conditions of contract: -		General Conditions of Contract (GCC)- Maintenance Work - 2023 (as amended/modified upto the previous day to last date of submission of bid)		
Name of Work:		A/R & M/O Various Electrical and mechanical service of New Doctor's Hostel at ABVIMS at Dr. RML Hospital New Delhi during 2026-27. (Electrical Work & Civil Work).		
Estimated cost of work:		Rs. 4,09,58,408/- {E & M Work: Rs. 3,05,38,975/- + Civil Work: Rs. 1,04,19,433/-}		
(i)	Earnest money:	Rs. 8,19,168/- (to be returned after receiving performance guarantee)		
(ii)	Performance Guarantee:	5% of the Estimated cost put to tender (ECPT) or contract amount whichever is higher i/c additional performance guarantee.		
(iii)	Security Deposit:	2.5% of tendered value		
SCHEDULE 'F'				
General Rules & Directions:				
Officer inviting tender:		Executive Engineer (E), RML Hospital Electrical Division, CPWD, New Delhi		
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3		See below		
Definitions:				
2 (vi)	Engineer-in-Charge	(i)	E&M work	Executive Engineer (E), RML Hospital Electrical Division, CPWD, New Delhi or his successor
		(ii)	Civil work	Executive Engineer, RML Hospital Division, CPWD, New Delhi or his successor
2 (viii)	Accepting Authority	Competent Authority		

2 (x)	Percentage on cost of materials and labour to cover all overheads and profits.	15%
2 (xi)	Standard Schedule of Rates	(A) Following Schedule of Rates (as amended/modified upto the previous day to last date of submission of bid): (i) DSR 2022 & Vol-II 2025 for E&M Works (ii) DSR & AOR (E&M) Item for BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor (iii) DSR & AOR (E&M) Item for Solar Photovoltaic Power Plant (iv) DSR & AOR (Items for VRF/VRV Air-Conditioning System) - 2019 (v) DSR & AOR (Wet Riser and Sprinkler System) - 2019 (B) Applicable Minimum Wages Rate w.e.f. 01.04.2026
2 (xii)	Department	Central Public Works Department
8 (ii)a	Standard CPWD contract form	General Conditions of Contract (GCC)-Maintenance Work - 2023 (as amended/modified upto the previous day to 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, in days.		7 days
Maximum allowable extension with late fee @ 0.1% per day of performance guarantee amount beyond the period as provided in (i) above.		3 days
Clause 2		
Authority for fixing compensation under clause 2.		Superintending Engineer, DC 9, CPWD, New Delhi or his successor
Clause 2A		
Whether Clause 2A shall be applicable		No
Clause 5		
Number of days from the date of issue of letter of acceptance for reckoning date of start:		10 days
Milestone(s) as per table given below:		

Sl. No.	Description of Milestone (Physical)	Time allowed in days (From date of start)	Amount to be with-held in case of non-achievement of milestone.
----- Not applicable -----			
Time allowed for execution of work:			12 Months
Authority to decide:			
(i)	Extension of time	Superintending Engineer, DC 9, CPWD, New Delhi or his successor	
(ii)	Rescheduling of milestones	Superintending Engineer, DC 9, CPWD, New Delhi or his successor	
(iii)	Shifting of date of start in case of delay in handing over of site	Superintending Engineer, DC 9, CPWD, New Delhi or his successor	
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 (LOI)
Part A	Portion without any hindrance	All	As per LOI
Part B	Portions with encumbrances	Nil	Not applicable
Part C	Portions dependent on work of other agencies	Nil	Not applicable
Clause 5A			
Whether Clause 5A shall be applicable			No
Clause 6			
Computerised Measurement Book (CMB) / Electronic Measurement Book (EMB)		EMB (Electronic Measurement Book) through ERP	
Clause 7			
Gross work to be done together with net payment /adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment		(i) 1st RA Bill- 50 Lakh (ii) Subsequent RA Bill - 50 Lakh (iii) Final Bill - Any Amount (iv) For other then as mentioned above with prior approval of Engineer-in-Charge	
Clause 7A			
Whether Clause 7A shall be applicable			Yes
Clause 7B			
Whether Clause 7B shall be applicable			Yes
Clause 10A			Yes
List of testing equipment to be provided by the contractor at site lab.			As per requirement of site and direction of Engineer-in-charge.
Clause 10C		Applicable	

Component of labour expressed as percent of value of work	Electrical work	For CMC & Day to Day Maintenance	75%
		For Other work/ services	25%
Clause 10CC			
Whether Clause 10CC shall be applicable		Not Applicable	
Clause 11		Specifications to be followed for execution of work	
		CPWD General Specifications for Electrical Works: (i) Part-I Internal - 2023 (ii) Part-II External – 2023 (iii) Part-III-Lift & Escalators – 2023 (iv) Part-IV Sub Station – 2013 (v) Part V Wet Riser & Sprinkler Systems – 2020 (vi) Part VI Fire Detection and Alarm System – 2018 (vii) Part VII D.G. Sets - 2013 (viii) Part VIII Gas Based Fire Extinguishing System 2013 (ix) CPWD General Specification for Medical Gas Pipe System 2022 (x) CPWD General Specification for Pneumatic Tube Transport System 2022 (xi) CPWD General Specification for Modular operation Theater 2022 (xii) CPWD General Specification for Nurse Call System 2022 (xiii) General Specifications for Heating, Ventilation & Air Conditioning (HVAC) – 2024	
Clause 12			
Type of work		Maintenance work	
Authority to decide			
Deviation in tendered amount up to 1.25 times of tendered amount.		As per CPWD Works Manual – 2024 updated	
Deviation in tendered amount beyond 1.25 times upto 1.50 times of tendered amount		As per CPWD Works Manual – 2024 updated	
Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for building work		As per CPWD Works Manual – 2024 updated	
Clause 16			

Competent Authority for deciding reduced rates.	(i) Superintending Engineer, DC 9, CPWD, New Delhi or his successor; upto 5% of the contract value. (ii) ADG (Delhi), CPWD: Full Power
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Clause 18						
List of mandatory machinery, tools & plants to be deployed by the contractor at site				Civil Work: As per site requirement.		
				E&M Work: 1. Earth Tester 2. Megger 500 V 3. Line Tester 4. Test Lamp 5. Die & Vice 6. Chase Cutting Machine 7. Crimping Tools 8. Tong Tester and /or as per requirement at site / as per the contract provisions and as per direction of Engineer-in-charge.		
Clause 19C						
Authority to decide penalty for each default				Engineer-in-Charge		
Clause 19D						
Authority to decide penalty for each default				Engineer-in-Charge		
Clause 19G						
Authority to decide penalty for each default				Engineer-in-Charge		
Clause 19K						
Authority to decide penalty for each default				Engineer-in-Charge		
Clause 25						
(i) Conciliator				SDG or ADG concerned with the work as applicable. The disputes and amount of each dispute (duly filled in Proforma Appendix-XVII of General Conditions of Contract (GCC) - Maintenance Work - 2023 (as amended/modified upto the previous day to last date of submission of bid) may be promptly referred to Conciliator.		
(ii) Arbitrator Appointing Authority				SE, DC-9, CPWD, New Delhi.		
(iii) Place of Arbitration				Delhi		
Clause 32						
Requirement of Technical Representative(s) & recovery Rate:						
Sl. No.	Minimum Qualification of Technical Representative	Designation (Principal Technical / Technical Representative	Minimum Experience	Number	Rate at which recovery shall be Made from the Contractor in the event to not fulfilling	
					Figures	Words

1	Graduate Engineer or Diploma Engineer	Project Planning / Quality / Billing Engineer	2 years or 5 years respectively	1+1	Rs. 15,000/-	Fifteen Thousand per month per person.
Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers. Diploma holder with minimum 10 years relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree Engineers.						
Clause 38						
(i)	(a)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates 2023 printed by CPWD with up to date correction slips			Delhi Schedule of Rates 2023 printed by CPWD with up to date correction slips	
(ii)	Variations permissible on theoretical quantities:					
	(a)	Cement for works with estimated cost put to tender not more than Rs. 25 Lakh			Not Applicable	
	(b)	For works with estimated cost put to tender more than Rs 25 Lakh			Not Applicable	
	(c)	Bitumen for all works			Not Applicable	
	(d)	Steel Reinforcement and structural steel sections for each diameter, section and category			Not Applicable	
	(e)	Paints & Chemicals			Not Applicable	

कार्यपालक अभियंता (वै.)
 राम मनोहर लोहिया वैद्युत मंडल,
 के.लो.नि.वि., नई दिल्ली

GENERAL TERMS AND CONDITIONS

1.0 General Conditions

- 1.1 The maintenance work is to be carried out in RML Hospital, New Delhi which includes maintenance under all branches like Civil & Electrical work.
- 1.2 The contractors are advised to get acquainted with the proposed work and its site and also study the Architectural Drawings, specifications and special conditions carefully before tendering. No claim of any sort shall be entertained on account of any site conditions and ignorance of specifications and special conditions.
- 1.3 For the discipline of Civil works CPWD specifications 2019 (Vol. I & II) with up to date correction slips. All Electrical works shall be carried out as per CPWD specification Part-I (Internal) – 2023, CPWD specification Part-II (External) – 2023, Indian Electricity Rules –1995 as amended till date of receipt of tenders. For items which are not covered under CPWD specifications, the special conditions / BIS specifications shall apply. In this regard the decision of Engineer-in-Charge shall be final.
- 1.4 All materials, T & P, consumable and contingent articles required for the work shall be arranged by the contractor. Materials used shall be in preference as per the nomenclature of the item/ as per approved list/CPWD Specifications and as per directions of Engineer-in-Charge. Replaced materials used shall have same or richer specifications to the original materials and compatible to the work.
- 1.5 All malba / rubbish / silt / waste / garden waste etc. generated due to any operation shall be brought down through the stair case and shall not be thrown to the ground directly from first floor or second floor etc. and shall be disposed off on daily basis by the contractor to the specified common disposal point to be decided by Engineer-in-charge. After the collection of full truck load of the said malba (approx 4.5 cubic Metre), the same shall be disposed off same day by the contractor to the authorized municipal Dhallao/ dumping ground, which will be paid for separately as per the item in contract. The contractor shall be fully responsible for any consequences arising out of non-removal and disposal of such malba / rubbish etc. In case of failure, a compensation of Rs. 4000/- per day (Rupees Four thousand only) shall be recovered from the bill / security deposit of the contractor.
- 1.6 The contractor or his representative shall be available at site on every visit of officer-in-charge as well as visit of senior officers.
- 1.7 Chases, holes & drilling works etc. shall be done using power operated tools.
- 1.8 The contractor shall have to carry out the work other than day to day maintenance according to program given by the Executive Engineer / Assistant Engineer / Junior Engineer-in-charge. The contractor shall not carry out any work in any building without permission of Engineer-in-charge or his authorized representatives. The contractor shall have to adhere to this program failing which he shall be wholly responsible for any inconvenience caused to the occupants. No claim for idle labour on any account shall be entertained. The contractor shall depute his representative daily to the site of work. His name and Signature shall be attested by the contractor for record in the department.
- 1.9 Any work carried out without the approval of the representative of the Engineer-in-charge at the site of work shall be rejected and shall not be measured and paid for.
- 1.10 The site for the collection and stacking of the material shall be got approved from the Engineer-in-charge.
- 1.11 The sample of all the items shall have to be got approved by the contractor from the Engineer-in-charge before the supply commences and shall be without prejudiced to the right of the Engineer-in-Charge to get random samples tested out of the actual lot received.
- 1.12 The Engineer-in-Charge will be at liberty to take respective sample(s) of each item of Schedule of Quantity in any approved laboratory as decided by him. The sample for testing will be provided by the contractor. All expenditure required to be incurred for taking sample, conveyance, packing and testing charges etc. will be borne by the contractor himself. In case any sample particular lot fails in testing, the contractor will be bound to replace the entire lot with fresh material of prescribed specification and the rejected lot will be returned to the contractor only after fresh lot is supplied.
- 1.13 Rejected materials will have to be removed by the contractor at his own cost immediately of the instructions of doing so.
- 1.14 In case of any dispute regarding rejection of quality of materials, the decision of the Engineer-in-Charge will be final and binding upon the contractor.
- 1.15 All taxes applicable at prevalent rates shall have to be paid by the contractor himself and the rates quoted by him shall include these taxes and nothing extra on this account shall be payable.

- 1.16 The rates for different items of work shall apply for all heights and depths, leads and lifts unless otherwise specified in the agreement or specifications applicable to the agreement.
- 1.17 Any damage done by the contractor to any existing work during the course of execution of the work shall be made good by him at his own cost.
- 1.18 Articles manufactured by the reputed firms and approved by Engineer-in-Charge shall only be used. Only articles classified, as 'first quality' by the manufacturer shall be used unless otherwise specified. In case articles bearing ISI certification are not available in the market, quality of samples brought by the contractor shall be judged by standards laid down in the relevant CPWD specifications. For the items not covered by CPWD specifications relevant BIS standards shall apply. The sample of materials to be brought to site for use in work shall be got approved from the Engineer-in-Charge before actual execution of work.
- 1.19 The contractor shall submit a detailed program of work within 15 days of the date of award of work. The Engineer-in-Charge can modify the program and the contractor shall have to work accordingly.
- 1.20 The quantities of any item shall not be exceeded beyond the agreement quantities without prior permission of Engineer-in-Charge.
- 1.21 Statutory applicable recoveries such as on account of GST, Income tax, Surcharge, Construction Worker's Welfare Cess etc. as applicable from time to time shall be made from the gross amount of Running A/c Bill and Final Bill of the contractor.
- 1.22 The contractor shall make his own arrangements for obtaining electric connection, if required and make necessary payments directly to the department concerned.
- 1.23 The contractor shall make his own arrangement for getting the permission for entry of trucks carrying materials for the site from the traffic police.
- 1.24 No payment shall be made to the contractor for any damage caused by rain, snow fall, floods or any other natural causes whatsoever during the execution of work. The damage caused to work shall have to be made good by the contractor at his own cost and no claim on this account shall be entertained.
- 1.25 Some restrictions may be imposed by the security staff etc. on the working and or movement of labour and materials, etc., the contractor shall be bound to follow all such restrictions / instructions and nothing shall be payable on this account.
- 1.26 The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards. He shall be responsible for all damages and accidents caused due to negligence on his part. No hindrance shall be caused to traffic during the execution of the work by storing materials on the road.
- 1.27 The contractor shall be fully responsible for the safe custody of the material issued or brought by him to site for doing the work.
- 1.28 The rate for all items of work shall, unless otherwise clearly specified, include cost of all labour, material and other inputs involved in the execution of the items.
- 1.29 The order of preference in case of any discrepancy as indicated in condition no. 8.1 under "Conditions of Contract" given in the General Conditions of contract for Central P.W.D work 2020 (Maintenance) form may be read as the following.
 - a) Description of Schedule of quantities
 - b) Particular Specifications, Additional Conditions and Special Conditions, if any.
 - c) Architectural Drawings
 - d) CPWD Specifications with up to date correction slips.
 - e) Indian Standard Specifications / BIS
 - f) Sound engineering practice.
- 1.30 Any reference made to any Indian Standard Specifications in these documents, 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 of relevant Indian Standards applicable to the work at site.
- 1.31 The contractor will not have any claim in case of any delay by the Engineer-in-Charge in removal of trees or shifting, removing of telegraph, telephone or electric lines (overhead or underground), water and sewer lines and other structure etc., if any which may come in the way of the work. However, suitable extension of time can be granted to cover such delay.

- 1.32 The contractor shall clean the site thoroughly of scaffolding materials, rubbish, equipments left out of his work and dress the site around the building to the complete satisfaction of the Engineer-in-charge before the work is treated as completed.
- 1.33 For unsatisfactory / not attending to the required / specified work the Engineer-in-Charge reserves his rights to levy compensation in accordance with the scale of non-conformity and the period for which this non-conformity continues.
- 1.34 No residential accommodation shall be provided to any of the staff engaged by the contractor. The contractor shall also not be allowed to erect any permanent / temporary set up for his staff in the campus.
- 1.35 Contractor has to provide drinking water facility in each enquiry office with water cooler for his staff. Watch & Ward of Enquiry office shall be the responsibility of the agency.
- 1.36 The contractor shall comply with proper and legal orders and directions of the local or public authority or Municipality and abide by their rules and regulations and pay all fees and charges which he may be liable.
- 1.37 The work shall be carried out in a manner complying in all respects with the requirements of relevant bye laws of the local bodies, labour laws, minimum wages act, workmen compensation act and other statutory laws enacted by Central Govt. as well as State Govt.
- 1.38 The contractor shall depute Engineers for Civil and Electrical Works as per the provision mentioned in schedule F.
- 1.39 During the period of execution of work and extended period any unauthorized construction /occupation in Govt. quarters/Govt Land is to be reported immediately to the JE-in-charge and demolish the same by the contractor through his labour /staff in consultation with JE-in-Charge and submit monthly status of unauthorized construction /occupation by physical survey of colony.
- 1.40 The contractor shall provide necessary barriers, warning signals and other safety measures while executing the work or wherever necessary so as to avoid accidents. He shall also indemnify CPWD against claims for compensation arising out of negligence in this respect. Contractor shall be liable, in accordance with the Indian law and Regulations for any accidents occurring due to any cause. The contractor shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the contractor due to the above provisions thereof.
- 1.41 Any damage caused due to negligence of contractor during the routine maintenance shall be of firm's responsibility. The firm has to make good the same at his own risk and cost.
- 1.42 The contractor will arrange & store all the materials at Enquiry office required for attending day to day maintenance complaints for at least 3 months or as decided by Engineer-in-Charge, throughout agreement period. A material at site (MAS) Account Register shall be maintained by the contractor for materials brought at site & used in day-to-day maintenance work. The MAS Account Register shall be kept at service centre along with relevant bill/invoices of materials brought at site so that officers of CPWD can review the quantity and quality of material present in store. This MAS Account Register shall be the property of Engineer-in-Charge after the completion of work.
- 1.43 All the maintenance materials to be used at site shall be of preferred make only and it shall be got approved from Engineer-in-charge before use.
- 2.0 Operation and Management of Service Centre / Enquiry Office (Civil & Electrical)**
- 2.1 Service Centre (Complaint Center) will function during office hours on all days including Sundays and Holidays. Emergent complaints related to sewerage and plumbing etc. and emergent complaint related to electricity shall be attended round the clock.
- 2.2 The contractor shall take immediate action to attend to any complaint assigned to him through site order book / verbal instructions from Engineer-in-Charge or on telephones / through call centre of CPWD, from occupants. In all cases he shall attend the complaints in the specified duration as mentioned below:-
- 2.3 No delay complaints – Complaints of emergent nature such as electricity not being available. Plumbing or sewerage systems not working etc. are to be attended immediately on the same day.
- 2.4 Minor Complaints – Complaints relating to the trades of mason, carpenter and welder are to be attended within 48 hours.
- 2.5 Major Complaints – Complaints other than no delay and minor complaints. Such complaints are to be attended with in shortest reasonable time.

- 2.6 Necessary Complaint Diary/complaint-attendance books shall be maintained by the contractor in respect of complaints received and shall be got signed by the allottees, after attending.
- 2.7 In case of failure to meet these deadlines 2.3 and 2.4 above a lump sum amount of Rs. 700/- (Rs. Seven Hundred only) per complaint per day will be recovered from his bills / Security Deposit for each default to attend the complaints assigned to him.
- 2.8 The complaint will be attended within bench mark period (as per CPWD Sewa/ERP) otherwise a recovery shall be made @ Rs. 150/- per complaint (Red Zone) per day and @ Rs100/- per complaint (Yellow Zone) per day.
- 2.9 Contractor shall facilitate visitors while they visit to Service Centre for lodging complaint in person.
- 2.10 The contractor shall take immediate action to attend any complaint downloaded by him from CPWD e-SEWA Website /IVRS/ telephonic / verbal / written or assigned to him through site order book/verbal instructions from Engineer-in-charge or on telephone/CPWD e-SEWA from occupants. Contractor shall endeavour to attend the minor complaints in the Green benchmark time as mentioned in CPWD e-Sewa. In no case, the % of complaints attended in GREEN plus yellow benchmark time every calendar month shall be less than 90% but not less than or equal to 80%, in case of both Civil and Electrical complaints. In case of failure on part of contractor to meet these parameters, a lump sum amount of Rs.20,000/-shall be recovered from contractor's bill for every such month of default for respective civil and electrical bills separately. If this % falls below 80%but not less than or equal to 70%, in case of both civil and electrical complaints, a lump sum amount of Rs. 50,000/-shall be recovered from contractors' bill for every such month of default for respective civil and electrical bills separately. If this percentage falls below 70%, in case of both civil and electrical complaints, no payment shall be made to the contractor for day today component of the work for that particular month.
- 2.11 In addition to Para No. 5 above, based on feedback taken by Call Centre, if the % of satisfied falls below 90% but not less than or equal to 80%, both for civil and Electrical complaints, a lump sum amount of Rs. 20,000/- shall be recovered from contractor's bill for every such month of default for civil and electrical bills respectively. If this % falls below 80% but not less than or equal to 70%, both for civil and electrical complaints, a lump sum amount of Rs. 50,000/- and Rs. 25,000/- shall be recovered from contractors' bill for every such month of default for civil and electrical bills respectively. The reports generated by CPWD e-SEWA/IVRS every month shall form the basis of these recoveries and no dispute on this matter shall be entertained. These recoveries for less percentage of complaint attended and less percentage of satisfied Users shall be simultaneous and in addition to recoveries mentioned elsewhere in the bid documents.
- 2.12 If Operator fails to operate the pump for the notified period then a recovery of Rs. 1000/- for late and Rs. 3000/- for complete absence in the shift, will be recovered from the bill.
- 2.13 The agency shall have to provide/depute separate workmen for the execution of petty repair work of E&M services. The workmen engaged in complaint handling in no case be utilized in petty repair works. If such occurrence is found then recovery of Rs. 2000/- per occurrence will be made.
- 2.14 The contractor or his Engineer at the Service Centre shall maintain complaint register, logbooks, etc. as required for nature of work at service centre / pump house etc.
- 2.15 In order that the contractor may take daily instructions regarding all complaints / works except day to day maintenance, a site order book will be maintained at the Enquiry Office.
- 2.16 Day to day repairs is to be carried out in all the buildings under maintenance of this contract. For this purpose a compliant register shall be maintained for recording of the complaints received at enquiry counter/on phone/through call centre/ordered/intimated in writing.
- 2.17 The purpose of these facilities is to ensure satisfactory continuous functioning of various services in the buildings.
- 2.18 The following facilities shall be provided by Agency free of cost at the Service Centre(s):
 - a) Suitable Counter for Computer Operator to sit and receive complaints from call centre of CPWD.
 - b) Suitable space for the use of the workers and other staff deployed by the agency at the service centre.
 - c) The Internet connection for Service Centre.
 - d) The electric connection for general purpose at the Service Centre provided by the Department.
- 2.19 The complaints which cannot be attended on daily basis shall be transferred to the major complaint for which the instructions of the JE/AE & EE shall be obtained before taking up the work.

- 2.20 Similarly, complaints registered for addition / alteration works shall be transferred to periodic/up-gradation and shall be submitted to AE-In-Charge for the completion of the formalities.
- 2.21 Operations in which assistance shall be provided by the agency to CPWD.
- Assisting the department in detection of unauthorized encroachments in the area being maintained.
 - Informing the Engineer-in-Charge regarding the failure of any service being provided by other agencies, in so far as they affect the assets being maintained under this contract, so that they can be taken up with the concerned local body / departments for rectification.
- 2.22 Complaint Diary, attendance register and other records will have to be produced either daily according to the requirement or when asked to do so by the Engineer-in-charge or his authorized representative.
- 2.23 When a register/diary gets completed, it will be handed over to the concerned J.E. / A.E. It will not be returned to the contractor and the same will remain the property of the department.
- 2.24 All required register will be issued by Engineer-in-charge duly marked in chronological order but the contractor will have to arrange all such registers/stationery etc. Nothing extra shall be paid on this account.
- 2.25 The contractor shall have to provide suitable communication arrangement at site so as to enable the staff on duty to acknowledge complaints made by clients & to attend the complaints promptly.
- 2.26 The Contractor should intimate in writing the mobile number of Engineers/Supervisor deployed by him to register/pass on the complaints through mobile / whatsapp / mail etc. The mobile should be open and workable 24 Hrs. for attending to complaints.
- 2.27 The labour/workers/staff deployed by the contractor against 'Day to Day Maintenance' work shall not be used for A/R & M/O or Special Repair work. If it is found that the labour deployed for 'Day to Day Maintenance' work has been engaged on 'Special Repair Work', necessary recovery shall be made on the basis of double the rate of Wages for particular day in respective category.
- 2.28 Site Engineer shall monitor the 'Day to Day Maintenance' work being carried out by the labour engaged by the contractor for each Service Centre to interact with the users. The Site Engineers shall be properly and neatly dressed, well trained, courteous, well behaved, soft spoken and should have basic knowledge of Civil & Electrical work. He will not enter into argument with the users of buildings for any reason. All the contentious issues will be brought by him to the notice of CPWD officials. These Site Engineers and regularly engaged manpower/other staff are also required to mark their attendance through Biometric Attendance system. In Time & out time should be marked in attendance system. Daily attendance file should be downloaded. Printout of daily attendance should be signed and submitted to JE/AE.
- 2.29 The Site Engineer will be an interface between the client and the CPWD. No labour will directly go to attend the complaint. Instead, Site Engineer will go alongwith the labour and guide the labour to carry out the work. The Site Engineer will get the complaint attended and will get the receipt signed from the users in token of having attended the complaint satisfactory.
- 2.30 The complaints are required to be attended as per Stipulated Time Frame mentioned below:

Sl. No	Complaint Type	Time
1	Emergency Complaints no power, repairing, replacement of defective E&M installation / blocked drains, no water etc.	1 Hour
2	Minor Complaints (cleaning of drains, water overflow etc.)	1 Day
3	Major Complaints (repairs to doors, windows, plumbing, etc.)	3 Days
4	Periodical Complaints (White washing, painting, cleaning water tanks etc.)	10 Days

- 2.31 The entry of having attended complaint shall be recorded in the CPWD Sewa/ERP system by the contractor or as per direction of J.E./A.E. in charge.
- 2.32 Dedicated mobile phones have to be maintained round the clock at service centre by agency for communication regarding complaints for which nothing extra shall be paid.
- 2.33 The lowest bidder for security verification will be send to client and after getting Security Approval from client, his bid will be considered ot her wise his bid willbecancelled.
- 2.34 The contractor will arrange & store all the materials at Enquiry office (at least minimum 50% of the total quantity taken in BOQ) within 15 days of the issue of award letter, failing so penalty of 1000/-

per day shall be levied, required for attending day to day maintenance complaints for at least 12 Months or as decided by Engineer-in-Charge, throughout agreement period. A material at site (MAS a/c.) register shall be maintained by the contractor for materials brought at site & used in day-to day maintenance work. The MAS a/c. shall be kept at service centre so that officers of CPWD can review the quantity and quality of material present in store. This MAS a/c. shall be the property of Engineer-in-Charge after the completion of work.

- 2.35 Aadhar based Biometric Attendance system for all deployed workers shall be provided, installed and maintained in good working condition by the contractor at his own cost, for which nothing extra shall be paid. In case of any breakdown same shall be restored within 48 hours, else agency shall be imposed the penalty of Rs. 2000/- per day. Independent Wi-Fi network/hotspot or internet connectivity to this machine must be provided by contractor at his own cost. In & out, both timings should be marked by every engaged staff in attendance machine failing which it will be treated as absent. However, during Covid period/any other circumstances if Govt. guideline restricted Aadhar based Biometric Attendance in that case JE / AE in-charge of work shall mark / verify manual attendance of the contractual staff deployed at site by the contractor. Any urgency In Round the clock shift duty, staff of current shift will relieve only when staff of next shift join duty. All engaged manpower should join duty on time failing which a penalty charge @ Rs 50 for delay of every 30 minute or part thereof, after initial delay of 10 min will be imposed for every late attendance. Maximum permissible delay is 70 minutes (or as decided by Engineer-in-Charge) after which it will be treated absent. For early departure from scheduled off time, penalty charge will be imposed @ Rs 50 for every 30 minute or part thereof. Payment for manpower will be made by the department on the basis to Aadhar based Biometric system record and based on the manual attendance verified by JE/AE concerned during the breakdown period.

3.0 Terms and Conditions for Manpower

- 3.1 For the purpose of categorization of staff as skilled, semi skilled and unskilled, the Mason / Plumber / Carpenter /Welder/Computer Operator/Wireman/ Operator/Work Assistant/Supervisor shall be taken as skilled, seweraman and sweepers / Beldars / Khalasi shall be taken as semi-skilled. Sweepers / Beldars / Khalasi shall be taken as unskilled.
- 3.2 As per New labour codes 2025, contractor shall issue the appointment letter to contract labours along with following details and submit to Engineer-in-charge along with PG:-
- (a) **Mandatory Letter:** The Contractor must issue a formal Letter of Appointment to every contract worker.
 - (b) **Statutory Details:** This letter must explicitly state the designation, skill category, wage breakdown (Basic + DA), and social security entitlements (PF/ESIC).
 - (c) **Gratuity Eligibility:** The gratuity as per prevailing rules shall be mentioned in appointment letter
 - (d) **Working Hours:** Standard shifts are capped at 8 hours, with overtime (max 125 hours/quarter) requiring written consent and double-rate pay.
 - (e) **Gender Equality:** Women may be deployed for night shifts (7 PM – 6 AM) only with prior consent and mandated safety/transport provisions.
 - (f) **Termination:** All exits must comply with the Industrial Relations Code, ensuring payment of full and final settlements within 48 hours of removal. Contractor shall mentioned condition in this respect.
- 3.3 Police verification of every staff deployed by the contractor shall be got done by the contractor compulsorily and a copy of police verification and his Aadhar Card/Voter ID or any other Identity Card copy shall be provided to Engineer-in-Charge after which an identity card shall be issued to each employee of the contractor for proper identification. The employee and labourers engaged by the contractor under this contract shall wear neat and clean uniforms as approved by Engineer-in-Charge along with name badges. Nothing extra will be paid on account of providing uniform to the labours.
- 3.4 The staff employed by the firm for the maintenance works shall wear proper uniform. The Monogram/ badges shall be fixed on the uniform. The contractor shall have to arrange for issue of identity cards as per direction of the Engineer in charge for all the staff members deployed within one week of the start of the work at his own cost and also submit two extra photographs with full address of each worker for record. If contractor fails to do so, the department shall recover Rs.100/- per day/per person for this default from the monthly bill.

- 3.5 Adhar based Biometric attendance of workers deployed for day to day maintenance shall be maintained by the contractor and biometric machine required shall be provided, installed and maintained by the contractor free of cost.
- 3.6 The contractor will maintain attendance records of the staff, which will be checked by the Junior Engineer/ Assistant Engineer/Executive Engineer-in-charge of the work. In case of absence of any staff, recovery shall made at the following rates:
 - a) Skilled @ Rs. 2,016/- per day/person.
 - b) Unskilled @ Rs. 1,654/- per day/person.
- 3.7 The contractor shall have registration with Employee's Provident Fund Commissioner and Employee's State Insurance Corporation for safeguarding interest of his workmen. He shall obtain all other necessary approvals from statutory bodies as per law in force.
- 3.8 The staff engaged by the contractor should be physically and mentally fit and should be well behaved, polite and courteous. Any complaint against staff on behaviour would be taken very seriously and such staff shall have to be removed by the contractor immediately from the site. The replacement for the same shall be arranged without loss of time failing which the Engineer-in-Charge has the power to cancel the contract and the contractor shall have no right to claim for loss / compensation.
- 3.9 Each skilled staff shall maintain a complaint diary and get the feedback recorded from the allottee regarding attending the complaint. In case, it is found that the complaint has not been attended satisfactorily, it will be considered as unattended. List of such complaints shall be submitted to the Assistant Engineer-in-Charge or his representative on daily basis. Action as already mentioned above shall be taken for unattended complaints.
- 3.10 The contractor shall submit duty roaster in duplicate within a week from the date of start of work and thereafter two days before the close of every month if staff is changed.
- 3.11 Shift timings can be changed as per the requirement at site and as per the decision of Engineer-in- Charge.
- 3.12 The contractor has to keep the sensitiveness of site in mind for execution of the work and deployment of staff.
- 3.13 The contractor will be fully responsible for the conduct of the staff deputed at site. The Engineer-in-Charge reserves the right to remove/terminate the services of worker without assigning any reason what so ever.
- 3.14 The contractor shall provide his mobile number or the mobile number of his representative to the Engineer-in-Charge for ease of communication with the controlling staff.
- 3.15 No claims of the labourers shall be entertained by the Department including that of providing employment, regularization of services etc.
- 3.16 Safety codes and Labour Regulations:- In respect of all labour employed directly or Saindirectly on the work for the performance of the contractor's part of work, the contractor at his own expense, will arrange for safety provision as per the statutory provisions, B.I.S. recommendations, factory act, workman's compensation act, CPWD code and instructions issued from time to time. Failure to provide such safety requirement would make the firm liable for penalty as decided by Engineer-in-charge. This office will not be responsible for any mishap, injury/death of the staff.
- 3.17 Bidder shall follow Standard Operating Procedure for Cleaning of Sewers and Septic Tanks issued by MoHUA, Govt. Of India and relevant guidelines issued by local bodies.
- 3.18 Contractor shall pay fortnightly/monthly payment to staff through account payee Cheque or ECS.
- 3.19 Contractor shall submit fortnightly labour report along with details of payment made to staff engaged for this work in two copies. Payment details shall include name of worker, bank account details, amount due, amount paid and Cheque number.
- 3.20 The contractor has to supply and maintain log book and record all the operational & routine maintenance parameters, which should be signed by the operational staff deputed by him. The operational staff shall sign "for (Name of contractor)by fixing a rubber stamp every time he signs. The log book should be as per sample approval by the Engineer-in-charge with timing of three shifts printed on each page.
- 3.21 Deputed staff should strictly follow the CPWD Maintenance charter.
- 3.22 The quoted rate shall be inclusive of all Taxes, Royalty, Octroi, GST etc. Bonus paid to labour shall be reimbursed to the agency after submission of payment voucher, Bank Statement as per acutal bonus given to the labour as per prevailing labour laws.
- 3.23 The contractor shall provide certified and tested Bio-Metric Attendance Equipments and System at each Service Centre. Every day-to-day maintenance staff shall mandatorily register attendance in Bio-Metric System and same shall be verified by the CPWD representative. The unauthorised absence beyond the

- tender provision shall lead to deduction on proportionate basis.
- 3.24 The work shall be carried out as per CPWD general specification for electrical works Part-I (Internal) 2023, Part-II(external)-2023, Part-III (Lift & Escalator)-2003, Part-IV (Sub Station)- 2013, Part-V (Wet Riser and Sprinkler System)-2020, Part-VI (Fire Detection and Alarm System)- 2018, Part-VII (DG Sets)-2013, HVAC Works-2017, IE rules, Indian standards amended upto date and as per direction of Engineer-In-Charge. The additional specifications are to be read with above and in case of any variations, specifications given along with the tender shall apply.
 - 3.25 PVC insulated copper conductor wire used shall be multi-standard FR grade for which nothing extra shall be paid.
 - 3.26 The work shall be carried out according to approved drawings / details which shall be subsequently issued to the successful tenderer for execution of work and as per instructions of Engineer-in-Charge who will have the right to change the layout as per requirement at site and the contractor shall not have any claim due to change in layout. The work shall be executed by skilled person Licensed by the approved authorities.
 - 3.27 Cleaning of entire system/ units/ room/ machinery and other equipment will be the responsibility of the contractor. If the room is not found satisfactory at any time by the department recovery of Rs.50/- per day shall be made from the contractor's bill.
 - 3.28 Contractor has to take over the complete inventory before starting the work and should return the same in good working condition after close of contract. If any discrepancy is found the contractor has to make good at his own cost otherwise recovery will be made from the contractor's bill. Decision of EE (E) will be final and binding on the contractor.
 - 3.29 The contractor shall provide first aid/ box facilities for his staff at site.
 - 3.30 For Holiday/Sunday no extra payment will be made. It is the contractor's duty to arrange weekly off or holiday to the workers by making alternative arrangement for which no extra payment shall be made.
 - 3.31 The staff employed by the contractor should wear the uniform and badges otherwise recovery at the rate of Rs.100/- per occasion will be made from the contractor's bill. Liveries will be provided by the contractor to his staff for which nothing extra shall be paid.
 - 3.32 The deptt. will not be a party in event of any dispute between contractor and his staff on legal matters. The contractor is fully responsible for any dispute between him and his labourer
 - 3.33 It shall be deemed that contractor has satisfied himself about the nature and location of the work, general and local conditions, particularly those pertaining to transport, handling and storage of materials, general ground conditions and highest flood level etc. before bidding. The department shall not be responsible for lack of such knowledge and also the consequences thereof. The information and site data shown in the drawings and mentioned herein and elsewhere in the bid document are being furnished for general information and guidance only. The Engineer-in-Charge shall in no case be responsible for the accuracy thereof or any interpretations/or conclusions drawn there from by the contractor and nothing extra shall be paid even if the site conditions/information are different or otherwise incorrect at it is presumed that the contractor has satisfied himself for all possible contingencies, situations, bottlenecks and acts of coordination which may be required between different agencies.
 - 3.34 The contractor must study the specifications and conditions carefully before bidding. If there are varying or conflicting provisions made in any documents forming part of the contract, the Engineer-in-charge shall be the deciding authority with regard to the intention/interpretation of the documents and it will be binding on the contractor without any reservation whatsoever and nothing extra shall be paid. Any error in description, quantity or rate in schedule of work bills of quantities/item of any omissions there from shall not vitiate the contract or release the contractor from the execution of the whole work or any part of the work comprised there in according to drawing and specifications or from any of his obligations under the contract.
 - 3.35 For the discipline of Civil works, CPWD Specifications 2019 (Vol. I & II) with up-to-date correction slips shall be followed. All Electrical works shall be carried out as per CPWD Specification as mentioned in Clause-11& relevant CPWD Specification for relevant work with up-to-date correction slips. Indian Electricity Rules –1995 as amended till date of receipt of tenders shall be followed. For items which are not covered under CPWD Specifications, the special conditions / BIS specifications shall apply. In this regard, the decision of Engineer-in-Charge shall be final.
 - 3.36 All materials, T & P, consumable and contingent articles required for the work shall be arranged by the contractor. Materials used shall be in preference as per the nomenclature of the item / as per approved list / CPWD Specifications and as per directions of Engineer-in-Charge. Replaced materials used shall have

Addition : NIL

Overwriting : NIL

Deletion : NIL

AE (E)-(P)

AE(C)-(P)

- same or richer specifications to the original materials and compatible to the work. If any of the accessories available in the market is not ISI marked then decision of Engineer-in-charge is final and will be binding to the contractor.
- 3.37 All the malba /rubbish /silt /waste / garden waste etc. generated due to any operation / execution of the work shall be brought down through the stair case and shall not be thrown to the ground directly from the upper floors etc. Malba/rubbish generated due to any operation from premises and their open spaces whatsoever shall be disposed off on daily basis by the contractor to the specified common dumping point at site which shall be disposed off on same day by the contractor to the authorized municipal dhalao / dumping ground and nothing extra shall be paid on this account. The dumping point should be properly barricaded at all the time and should not give ugly look. The malba/rubbish kept inside the dumping point should be covered with sheet or any other suitable material to avoid dust pollution. In case of non-removal/disposal in the specified period, a recovery of Rs. 1000/- (Rupees One Thousand) per day shall be recovered from the contractor after issuing notice in writing by the Engineer- in- charge of work. If the malba is not removed within three days of notice, the same shall be got removed by the department at the risk and cost of the contractor and the amount shall be recovered from the bill of Contractor. This is in addition to the recovery of Rs. 1000/- per day for delay in removal of malba.
- 3.38 The contractor or his authorized representative should always be available at the site of work to take instructions from the departmental officers, and ensure proper execution of work.
- 3.39 Chases, holes & drilling works etc. shall be done by using power operated tools.
- 3.40 The contractor shall have to carry out the work other than day to day maintenance according to program given by the Executive Engineer / Assistant Engineer / Junior Engineer-in-charge. The contractor shall not carry out any work in any building without permission of Engineer-in-charge or his authorized representatives. The contractor shall have to adhere to this program failing which he shall be wholly responsible for any inconvenience caused to the occupants. No claim for idle labour on any account shall be entertained. The contractor shall depute his representative daily to the site of work. His name and signature shall be attested by the contractor for record in the department.
- 3.41 The site of work is located in New Doctor's Hostel Bldg. under RML Hospital Complex and the bidders are advised to carefully examine the same from the view point of storage of material, steel yard, labour huts movement of labours etc. before bidding as no space is available for storing material and labour huts inside the campus.**
- 4.0 The site for the collection and stacking of the material shall be got approved from the Engineer-in-charge.
- 5.0 The sample of all the items shall have to be got approved by the contractor from the Engineer-in-charge before the supply commences and shall be without prejudiced to the right of the Engineer-in-Charge to get random samples tested out of the actual lot received.
- 6.0 The Engineer-in-Charge will be at liberty to take respective sample(s) of each item of Schedule of Quantity in any approved laboratory as decided by him. The sample for testing will be provided by the contractor. All expenditure required to be incurred for taking sample, conveyance, packing and testing charges etc. will be borne by the contractor himself. In case, any sample of a particular lot fails in testing, the contractor will be bound to replace the entire lot with fresh lot of prescribed specification and the rejected lot will be returned to the contractor only after fresh lot is supplied.
- 7.0 Removal of rejected materials: In case any materials/substandard work are rejected by the Engineer- in-Charge, the same shall be removed from the site within 48 hours, failing which the same may be got removed by the Engineer-in-charge at the risk and cost of the contractor. The decision of the Engineer-in-charge shall be final and binding in this regard.
- 8.0 In case of any dispute regarding rejection of quality of materials, the decision of the Engineer-in-Charge will be final and binding upon the contractor.
- 9.0 Other agencies may also be simultaneously executing some other work entrusted to them by the Engineer-in-charge and the Contractor shall offer necessary co-operation wherever required to these agencies so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s). He shall as far as possibly arrange his work and shall place and dispose off the materials being used or removed, so as not to interfere with the operations of other contractors, or he shall arrange his work with that of the others in an acceptable and coordinated manner. The contractor shall leave such recesses, holes, openings etc. as may be required for the wet risers, air conditioning lift and other related works etc and shall perform it in proper sequence to the complete satisfaction of Engineer-in-charge.

- 10.0 Operations in which assistance shall be provided by the agency to the CPWD:
- a) Informing to the CPWD engineers regarding the failure in any service being provided by other departments, in so far as they affect the assets being maintained under this contract, so that they can be taken up with the concerned local body / department for rectification.
 - b) Assisting the department in detection of unauthorized encroachments in the area being maintained.
- 11.0 All taxes applicable at prevalent rates shall have to be paid by the contractor himself and the rates quoted by him shall include these taxes and nothing extra on this account shall be payable.
- 12.0 The rates for different items of work shall apply for all heights and depths, leads and lifts including all labour & materials and other aspects involved in the execution of work unless otherwise specified in the agreement or specifications applicable to the agreement.
- 13.0 Any damage done by the contractor to any existing work during the course of execution of the work shall be made good by him at his own cost.
- 14.0 Articles manufactured by the reputed firms and approved by Engineer-in-Charge shall only be used. Only articles classified, as 'first quality' by the manufacturer shall be used unless otherwise specified. In case articles bearing ISI certification are not available in the market, quality of samples brought by the contractor shall be judged by standards laid down in the relevant CPWD specifications. For the items not covered by CPWD specifications, relevant BIS standards shall apply. The sample of materials to be brought to site for use in work shall be got approved from the Engineer-in-Charge before actual execution of work.
- 15.0 The quantities of any item shall not be exceeded beyond the agreement quantities without prior permission of Engineer-in-Charge.
- 16.0 Statutory applicable recoveries such as on account of GST, Income tax, Surcharge, Construction Worker's Welfare Cess etc. as applicable from time to time shall be made from the gross amount of Running A/c Bill and Final Bill of the contractor.
- 17.0 The contractor shall make his own arrangement for getting the permission for entry of trucks carrying materials for the site from the traffic police.
- 18.0 No payment shall be made to the contractor for any damage caused by rain, snow fall, floods or any other natural causes whatsoever during the execution of work. The damage caused to work shall have to be made good by the contractor at his own cost and no claim on this account shall be entertained.
- 19.0 The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards / signages, warning boards, red flags, red lights and providing necessary barriers / barricading of the construction, work area and all other measures required from time to time. He shall be responsible for all damages and accidents caused due to negligence on his part. No hindrance shall be caused to traffic during the execution of the work by storing materials on the road.
- 20.0 The contractor shall be fully responsible for the safe custody of the material issued or brought by him to site for doing the work.
- 21.0 If due to exigency of work, the work is required to be carried out in more than one shift or during night, then contractor will be bound to execute the work accordingly and arrange the T & P and labour etc. No extra claim on this account shall be entertained.
- 22.0 The order of preference in case of any discrepancy as indicated under "Conditions of Contract" given in the General Conditions of Contract for Maintenance Works 2023 may be read as the following:
- a) Description of Item in schedule of quantities.
 - b) Additional Specification and special condition, if any.
 - c) General conditions
 - d) Contract clauses of General conditions of Contract for Maintenance Works 2023 Form.
 - e) CPWD Specifications with upto date correction slips
 - f) Architectural drawings.
 - g) Indian Standard Specifications/BIS.
 - h) Sound engineering practice.
 - i) Manufacturers Specifications
- 23.0 Any reference made to any Indian Standard Specifications in these documents, 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 of relevant Indian Standards applicable to the work at site.
- 24.0 The contractor will not have any claim in case of any delay by the Engineer-in-Charge in removal of trees or shifting, removing of telegraph, telephone or electric lines (overhead or underground), water and sewer lines and other structure etc., if any which may come in the way of the work. However, suitable extension of time can be granted to cover such delay.
 - 25.0 The contractor shall clean the site thoroughly of scaffolding materials, rubbish, equipment's left out of his work and dress the site around the building to the complete satisfaction of the Engineer-in-charge before the work is treated as completed.
 - 26.0 The contractor shall comply with proper and legal orders and directions of the local or public authority or municipality and abide by their rules and regulations and pay all fee and charges which may be liable. The contractor shall give due notices to municipality police and /or other authorities that may be required under the law/rules in force the area and obtain all requisites licenses for temporary obstructions/enclosures and pay all charges which may be leviable on account of his execution of the work under the Agreement. Nothing shall be payable on this account.
 - 27.0 No residential accommodation shall be provided to any of the staff engaged by the contractor. The contractor shall also not be allowed to erect any permanent / temporary set up for his staff in the campus.
 - 28.0 Contractor has to provide drinking water facility in enquiry office by providing necessary filter (RO) with water cooler for CPWD staff and his staff.
 - 29.0 The Contractor shall give due notices to Municipality, Police and/ or other authorities that may be required under the law/ rules under force and obtain all requisite licenses for temporary obstructions/ enclosures and pay all charges which may be leviable on account of his execution of the work under the agreement. Nothing extra shall be payable on this account.
 - 30.0 The work shall be carried out in a manner complying in all respects with the requirements of relevant bye laws of the local bodies, labour laws, minimum wages act, workmen compensation act and other statutory laws enacted by Central Govt. as well as State Govt.
 - 31.0 The contractor shall depute Engineers for Civil and Electrical Works as per the provision mentioned in Schedule F.
 - 32.0 The contractor shall depute required Technical Staff each for civil and electrical works as per Clause 32 of Schedule 'F' who shall remain present at CPWD Service Center during the time and days as provided in Schedule of Quantity. The agency shall submit the credential of proposed staff & shall be taken on roll only after approval of Engineer-in-charge. There will be daily Biometric Attendance of the labours and workers of all shifts as mentioned in the NIT. These labours/ workers shall be available at all the times as provided in Schedule of Quantity. However, in case of any urgency or time bound work, the contractor shall deploy extra labour for timely completion of work at NO Extra Cost. No half done/ incomplete work shall be left for the next day for Day to Day maintenance unless and until it does not cause inconvenience. The contractor shall arrange required number of devices for Biometric attendance as approved by the Engineer-in-Charge at his own Cost.
 - 33.0 Any other inventory added during the contract period to any of the installations of these areas shall also be maintained within the scope of work without any extra cost.
 - 34.0 The contractor shall provide necessary barriers, warning signals and other safety measures while executing the work or wherever necessary so as to avoid accidents. He shall also indemnify CPWD against claims for compensation arising out of negligence in this respect. Contractor shall be liable, in accordance with the Indian law and Regulations for any accidents occurring due to any cause. The contractor shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the contractor due to the above provisions thereof.
 - 35.0 Any damage caused due to negligence of contractor during the routine maintenance shall be of contractor's responsibility. The contractor has to make good the same at his own risk and cost.
 - 36.0 The contractor will arrange & store all the materials at Enquiry office required for attending day to day

maintenance complaints or as decided by Engineer-in-Charge, throughout agreement period. A material at site (MAS) Account Register shall be maintained by the contractor for materials brought at site & used in day-to-day maintenance work. The MAS Account Register shall be kept at service centre along with relevant bill / invoices of materials brought at site so that officers of CPWD can review the quantity and quality of material present in store. This MAS Account Register shall be the property of Engineer-in-Charge after the completion of work.

- 37.0 All the maintenance materials to be used at site shall be of preferred make only and it shall be got approved from Engineer-in-charge before use.
- 38.0 This contract includes providing the Emergency Services whenever required after normal working hours; no extra charge will be entertained for attending such complaints.
- 39.0 The contractor will carry out preventive maintenance / checks as per CPWD Specifications / respective Standard trade practices and as per directions of Engineer-in-Charge. The result of such tests will be recorded in proforma as decided by the Engineer-in- Charge.
- 40.0 No vegetation shall be allowed to grow on walls, roofs, staircase, chajjas, etc.
- 41.0 The labour deployed for attending complaints should carry necessary tool kit for civil and electrical work, container (Tasla), required for mixing any cement, sand or other material and should carry with them water bottle and waste bag for collection of minor rubbish material, if received during attending the complaints, so that the site of work shall remain neat and clean.
- 42.0 The contractor shall submit measurement of work section wise to each Junior Engineer (Civil/Electrical). However, the measurement shall be compiled by the Nodal Assistant Engineer (Civil/Electrical) for preparation of running Account Bill.
- 43.0 Site is located in sensitive and high security area of the hospital, where movement and routes are restricted. The contractor shall have to apply well in advance for carrying out the work. No claim whatsoever shall be entertained for any loss on this account. Some restrictions may be imposed by the Security staff/ Delhi police on the working and for movement of labour, materials etc.
- 44.0 The movement of trucks and vehicles shall be regulated in accordance with rules and regulations as approved by competent authority.
- 45.0 The contractor shall be bound to follow all such restrictions / instructions and nothing extra shall be payable on this account.
- 46.0 The contractor is required to prepare and install appropriate number of Display Boards at suitable locations and also at the Service Centre, to appraise the details of Contractor, Supervisor, Executive Engineer, Assistant Engineer and Junior Engineer etc.
- 47.0 Before start of work, the contractor keeping in view that the space available is limited, shall inspect the site for material yard, other storage, steel fabrication yard, site laboratory and seek formal approval of the Engineer-in-charge. No space will be available at site of work for the fabrication of steel / aluminum work grating, railing, etc. The contractor should make his own arrangement for the same in his workshop. Nothing shall be paid for the carriage of such manufactured items from workshop to site of work. The contractor shall not stack building material / malba on NDMC land or road or on the land owned by any other authority and in case of failure to do so, he shall face penal action as per the rules, regulation and bye-laws of the said body or authority. The Engineer-in-Charge shall be at liberty to recover the amount due but not paid to the concerned authorities on account of the above from any amount due to the contractor including amount of the security deposit or retention money in respect of this contractor or any other contract.
- 48.0 In order to adhere to the Committed Program and requirement of client department, the work shall be carried out in more than one shift and contractor will deploy the resources accordingly. No extra claim on this account shall be entertained. Contractor should give advance notice in writing to Engineer-in-charge for doing any work in odd hours and arrange permission accordingly.
- 49.0 All the complaint registers, log books, MAS, Task Register, workers diary, test result registers or any other record shall be supplied by the contractor, maintained by the staff of the contractor and handed over to the department on the completion/ termination of the contract.
- 50.0 The contractor or his representative is bound to sign the site order book as and when required by the

Engineer-in-Charge and to comply with the remarks therein.

- 51.0 It shall be the responsibility of the agency to transport all the items required for comprehensive maintenance from store and to carry dismantled material from site to store and nothing extra shall be paid on this account.
- 52.0 The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants of adjacent properties and to the public in general and to prevent any damage to such properties and any pollution of smoke, streams and waterways. He shall make good at his cost and to the satisfaction of the Engineer-in-Charge, any damage to roads, paths, cross drainage works or public or private property whatsoever caused by the execution of the work or by traffic brought thereon by the contractor. 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.
- 53.0 The bidder shall be required to furnish a programme chart for completing the work in the stipulated time. For completing the work in time, the contractor might be required to work in shifts including night 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 provision of labour regulations and the agreement entered upon and/or extra amount for any other reason. The contractor shall take instructions from the Engineer-in-Charge for stacking of all materials at site. The contractor shall not stack materials on any place which may cause serious inconvenience to the public and other construction agencies using that place. The Engineer-in-Charge may ask the contractor remove all such material(s) considered by him to be causing inconvenience to anyone. Nothing shall be payable on this account.
- 54.0 If for any reason, any part of the site is not available temporarily for some time for part of the work under the contract, the agreed construction schedule shall be suitably modified and contractor shall diligently divert his men and materials to utilize them profitably and no claim of damages whatsoever shall be entertained on this account. However, the contractor shall be allowed extension of time for completion the work as deemed fit by the competent authority.
- 55.0 All necessary test as per the NIT/CPWD specifications/ relevant BIS codes shall be carried out on all other materials whether ISI marked or otherwise, from CPWD lab or from approved lab as directed by Engineer-in-charge. Wherever NIT/CPWD specifications/ relevant BIS codes do not specify the frequency of tests, the same shall be carried out as per the direction of the Engineer- in- charge.
- 56.0 The contractor shall be responsible for the watch and ward of the building, 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 installation and thereafter till the building is physical completed and handed over. **NO EXTRA PAYMENT SHALL BE MADE IN THIS ACCOUNT.**
- 57.0 Contractor shall ensure the availability of materials at site duly tested as per specifications and approved by the Engineer-in-Charge. In no case, the dismantling etc. should be carried out before approved materials is brought to site. If contractor fails to follow instructions, a penalty of Rs. 200/- per day for this fault shall be recovered. The decision of Engineer-in-Charge shall be final and binding.
- 58.0 The contractor shall at his risk and cost, make all arrangements and provide all facilities as per Engineer-in-Charge may require for collecting and preparing the require number of samples for such test at such time and to such place or places as may be directed by the Engineer in charge and bear all charges.
- 59.0 The contractor must be arranged fire NOC from the fire department of the existing building if it is required / expired, if any govt. fee payable by the contractor shall be reimbursed after produce of original bill of fire department.
- 60.0 The ESI & EPF as per labour laws will be reimbursed to contractor subject to submit detail of actual payment of ESI & EPF to contract labours to Engineer-in-charge.
- 61.0 The gratuity as per labour laws will be reimbursed to contractor subject to submit detail of actual payment of gratuity to contract labours to Engineer-in-charge.
- 62.0 **It shall be duty of the contractor to ensure the disbursement of wages through bank account of labour and obtain from the JE or any other authorized representatives of the Engineer-in-**

Charge, as case may be, certificate under his signature at the end of the entries in “Register of Wages” or Wages cum muster Roll”.

- 63.0 *Contractor shall submit fortnightly labour report along with the details of absentee statements to the staff/workers supplied & engaged (day to day maintenance work) for this work in two copies. Agency will also submit the details of payment of previous month that shall include name of workers, bank account details, amount due (gross salary as per minimum wages), amount paid (earned salary as per absentee statement) at the 7th day of every successive month to the respective subdivision offices wherever the staff/workers are engaged with. These documents will be duly verified by the concerned Subdivision officers (JE as well as AE) and again submitted to Division office for references and also copy to the agency by 10th day of every successive month. These documents must be submitted by the agency at the time of the processing & payment of every running bill as incorporated thereof. Agency has to follow the procedure as stated above and if he fails to comply the same then department may not be liable to make the payment the bill of labors thereof.*

कार्यपालक अभियंता (वै.)
राम मनोहर लोहिया वैद्युत मंडल,
के.लो.नि.वि., नई दिल्ली

Operation and Management of Service Centre (Complaint Centre)

1. Service Centre (Complaint Center) will function during office hours on all days including Sundays and Holidays. Emergency complaints related to sewerage and plumbing etc. and Emergency complaint related to electricity shall be attended round the clock.
2. The contractor shall take immediate action to attend to any complaint assigned to him through site order book / verbal instructions from Engineer-in-Charge or on telephones / through call centre of CPWD or through any mode, from occupants. In all cases, he shall attend the complaints in the specified duration as mentioned below:
 - (i) No delay complaints – Complaints of emergent nature such as electricity not being available, plumbing or sewerage systems not working etc. are to be attended immediately and as per schedule for compliance or complaints.
3. Contractor shall facilitate visitors while they visit to Service Centre for lodging complaint in person.
4. Necessary Complaint Diary/complaint-attendance books shall be maintained by the contractor in respect of complaints received and shall be got signed by the complainant, after attending.
5. The contractor shall take immediate action to attend any complaint downloaded by him from CPWD e-SEWA Website / IVRS / Telephonic / Verbal / Written / ERP or assigned to him through site order book/verbal instructions from Engineer-in-charge or on telephone/CPWD e-SEWA from occupants. Contractor shall endeavour to attend the minor complaints in the Green benchmark time as mentioned in CPWD e-Sewa. In no case, the % of complaints attended in GREEN plus yellow benchmark time every calendar month shall be less than 90% but not less than or equal to 80%, in case of both Civil and Electrical complaints. In case of failure on part of contractor to meet these parameters, a lump sum amount of Rs.20,000/- shall be recovered from contractor's bill for every such month of default for respective civil and electrical bills separately. If this % falls below 80% but not less than or equal to 70%, in case of both civil and electrical complaints, a lump sum amount of Rs. 50,000/-shall be recovered from contractor's bill for every such month of default for respective civil and electrical bills separately. If this percentage falls below 70%, in case of both civil and electrical complaints, no payment shall be made to the contractor for day today component of the work for that particular month.
6. In addition to Para No. 5 above, based on feedback taken by Call Centre, if the % of satisfied falls below 90% but not less than or equal to 80%, both for civil and Electrical complaints, a lump sum amount of Rs. 20,000/- shall be recovered from contractor's bill for every such month of default for civil and electrical bills respectively. If this % falls below 80% but not less than or equal to 70%, both for civil and electrical complaints, a lump sum amount of Rs. 50,000/- and Rs. 25,000/- shall be recovered from contractors' bill for every such month of default for civil and electrical bills respectively. The reports generated by CPWD e-SEWA/IVRS/ERP every month shall form the basis of these recoveries and no dispute on this matter shall be entertained. These recoveries for less percentage of complaint attended and less percentage of satisfied Users shall be simultaneous and in addition to recoveries mentioned elsewhere in the bid documents.
7. Main agency shall ensure that the day to day complaints are attended timely and there is satisfaction among the users. In case there is default of not complying to the bench mark standard in respect of timely attending the complaints and satisfaction level, then the Engineer-in-charge reserves the right to ask the main agency to replace the sub agency duly fulfilling the eligibility criteria.
8. The contractor or his Engineers at the Service Centre shall maintain complaint register, logbooks, etc. as required for nature of work at service centre / pump house etc.
9. In order that the contractor may take daily instructions regarding all complaints / works except day to day maintenance, a site order book will be maintained at the Enquiry Office. The JE / AE will note down the schedule of work to be started at various locations.

10. Day to day repairs is to be carried out in all the buildings under maintenance of this contract. For this purpose, a compliant register shall be maintained for recording of the complaints received at enquiry counter/on phone/through call centre/ordered/intimated in writing.
11. The purpose of these facilities is to ensure satisfactory continuous functioning of various services in the buildings.
12. The following facilities shall be provided by Agency free of cost at the Service Centre(s):
 - a) Suitable Counter for Computer Operator to sit and receive complaints from call centre of CPWD.
 - b) Suitable space for the use of the workers and other staff deployed by the agency at the service centre.
 - c) The Internet connection for Service Centre.
 - d) The electric connection for general purpose at the Service Centre provided by the Department.
13. The complaints which cannot be attended on daily basis shall be transferred to the major complaint for which the instructions of the JE/AE & EE shall be obtained before taking up the work.
14. Similarly, complaints registered for addition / alteration works shall be transferred to periodic/up-gradation and shall be submitted to AE-in-Charge for the completion of the formalities before the work is ordered to be taken up.
15. Operations in which assistance shall be provided by the agency to CPWD:
 - a) Assisting the department in detection of unauthorized encroachments in the area being maintained.
 - b) Informing the Engineer-in-Charge regarding the failure of any service being provided by other agencies, in so far as they affect the assets being maintained under this contract, so that they can be taken up with the concerned local body / departments for rectification.
16. Complaint Diary, attendance register and other records will have to be produced either daily according to the requirement or when asked to do so by the Engineer-in-charge or his authorized representative.
17. When a register/diary gets completed, it will be handed over to the concerned J.E. / A.E. It will not be returned to the contractor and the same will remain the property of the department.
18. All required registers will be issued by Engineer-in-charge duly marked in chronological order but the contractor will have to arrange all such registers/stationery etc. Nothing extra shall be paid on this account.
19. The contractor shall have to provide suitable communication arrangement at site so as to enable the staff on duty to acknowledge complaints made by clients and to attend the complaints promptly.
20. The labour/workers/staff deployed by the contractor against 'Day to Day Maintenance' work shall not be used for A/R & M/O or Special Repair work. If it is found that the labour deployed for 'Day to Day Maintenance' work has been engaged on 'Special Repair Work', necessary recovery shall be made on the basis of double the rate of Wages for particular day in respective category.
21. Site Engineer shall monitor the 'Day to Day Maintenance' work being carried out by the labour engaged by the contractor for each Service Centre to interact with the users. The Site Engineers shall be properly and neatly dressed, well trained, courteous, well behaved, soft spoken and should have basic knowledge of Civil & Electrical work. He will not enter into argument with the users of buildings for any reason. All the contentious issues will be brought by him to the notice of CPWD officials. These Site Engineers and regularly engaged manpower/other staff are also required to mark their attendance through Biometric Attendance system. In Time & out time should be marked in attendance system. Daily attendance file should be downloaded. Printout of daily attendance should be signed and submitted to JE/AE.

22. The Site Engineer will be an interface between the client and the CPWD. No labour will directly go to attend the complaint. Instead, Site Engineer will go alongwith the labour and guide the labour to carry out the work. The Site Engineer will get the complaint attended and will get the receipt signed from the users in token of having attended the complaint satisfactory.
23. The complaints are required to be attended as per Stipulated Time Frame mentioned below:

Sl. No.	Complaint Type	Time
1	Emergency Complaints no power, repairing, replacement of defective E&M installation / blocked drains, no water etc.	1 Hour
2	Minor Complaints (cleaning of drains, water overflow etc.)	1 Day
3	Major Complaints (repairs to doors, windows, plumbing, etc.)	3 Days
4	Periodical Complaints (White washing, painting, cleaning water tanks etc.)	10 Days

24. The entry of having attended complaint shall be recorded in the CPWD Sewa system / ERP by the contractor or as per direction of J.E./A.E. in charge.
25. Dedicated mobile phones have to be maintained round the clock at service centre by agency for communication regarding complaints for which nothing extra shall be paid.

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Terms and Conditions for Manpower Deployment

1. For the purpose of categorization of staff as skilled, semi-skilled and unskilled: Mason/Plumber/Carpenter/Welder/Computer Operator/AC Machanic/Wireman/Operator/ Work Assistant /Lift Operator/Technician/ Supervisor shall be taken as skilled. Sewerman/ Security Guard shall be taken as semi- skilled. Beldars / Khallasi shall be taken as unskilled.
2. Police verification of every staff deployed by the contractor shall be got done by the contractor compulsorily and a copy of police verification within 30 days after commencement of the work else recovery shall be made @ Rs 100/- per person per day and copy of his Aadhar Card/Voter ID or any other Identity Card shall be provided to Engineer-in-Charge after which and identity card shall be issued to each employee of the contractor for proper identification.
3. The employee and labours engaged by the contractor under this contract shall wear neat and clean uniforms as approved by Engineer-in-Charge along with name badges, else recovery shall be made @ Rs 100/- per person per day.
4. The proposed workers for specialized services shall be subjected to a skill assessment by the Department to assess their basic technical knowledge and suitability for the concerned all E&M specialised services.
5. Only workers whose documents are found in order and who are found satisfactory in the skill assessment shall be permitted for deployment.
6. The contractor shall have to arrange for issue of identity cards as per direction of the Engineer- in- charge for all the staff members deployed within one week of the start of the work at his own cost and also submit two extra photographs with full address of each worker for record. If contractor fails to do so, the department shall recover Rs.100/- per day/per person for this default from the monthly bill. The contractor shall also provide the basic PPEs (Personal Protection Equipments)/ Safety equipment like Helmet, Safety belt/harness, Safety Shoes, Gloves etc. to each worker and supervisor, whosoever is directly connected with the work.
7. Online Adhaar enabled biometric attendance system for all deployed workers shall be provided, installed at site at suitable locations and maintained in good working condition by the contractor at his own cost, for which nothing extra shall be paid. In & out, both timings should be marked by every engaged staff in biometric attendance machine failing which it will be treated as absent. In Round the clock shift duty, current shift staff will relieve only when staff of next shift join duty for staff working in shifts.
8. In the COVID period, the attendance of staff shall be marked as per Govt. guidelines issue during COVID period.
9. The Engineers, Supervisors and staff including skilled and unskilled workers of the agency shall carry mobile telephone(s) to enable the Engineer-in-charge to have easy and quick communication. Nothing extra shall be paid to the contractor on this account and his quoted rates for various items under this contract will be deemed to be inclusive of the expenditure towards such Mobile connections and use thereof.
10. The contractor shall engage computer literate staff that should be able to use computerized complaints receiving and monitoring system including IVRS / CPWD Sewa system. Computer and its peripherals with necessary consumable such as cartridges, software, stationary, 01 No. Land Line Phone connection with unlimited calls, Unlimited High Speed Internet / Broadband connections shall be provided by CPWD but it will be responsibility

of contractor to maintain them in working condition.

11. The worker will clean the place/site thoroughly before leaving the site after attending the complaints.
12. Safety of the staff employed will be the responsibility of the Contractor. It shall be the prime duty of the contractor to provide requisite safety equipments to all the workers and supervisors for their protection. CPWD will not be responsible for any mishap, injury/accident or death of the staff. No claim in this regard shall be entertained/ accepted by the department.
13. The contractor shall have registration with Employee's Provident Fund Commissioner and Employee's State Insurance Corporation for safeguarding interest of his workmen. The contractor shall make deduction on account of EPF & ESIC to labour / staff deployed by him on the work and will furnish detail of each worker at division office every month. The contractor shall have to follow all statutory rules and regulations. He shall obtain all other necessary approvals from statutory bodies as per law in force.
14. The staff engaged by the contractor should be physically and mentally fit and should be well behaved, polite and courteous. Any complaint against staff on behaviour would be taken very seriously and such staff shall have to be removed by the contractor immediately from the site. The replacement for the same shall be arranged without loss of time failing which the Engineer-in-Charge has the power to cancel the contract and the contractor shall have no right to claim for loss / compensation.
15. Each skilled staff shall maintain a complaint diary and get the feedback recorded from the users regarding attending the complaint. In case, it is found that the complaint has not been attended satisfactorily, it will be considered as unattended. List of such complaints shall be submitted to the Assistant Engineer-in-Charge or his representative on daily basis. Action as already mentioned above shall be taken for unattended complaints.
16. The contractor shall submit duty roster in duplicate within a week from the date of start of work and thereafter two days before the close of every month if staff is changed.
17. Shift timings can be changed as per the requirement at site and as per the decision of Engineer-in- Charge.
18. The contractor has to keep the sensitiveness of site in mind for execution of the work and deployment of staff.
19. The contractor will be fully responsible for the conduct of the staff deputed at site. The Engineer-in-Charge reserves the right to remove/terminate the services of worker without assigning any reason what so ever.
20. The contractor shall provide his mobile number or the mobile number of his representative to the Engineer-in-Charge for ease of communication with the controlling staff.
21. No claims of the labourers shall be entertained by the Department including that of providing employment, regularization of services etc.
22. Contractor shall pay fortnightly/monthly payment to staff through NEFT / RTGS / ECS /any other online mode only.
23. Safety codes and Labour Regulations:

In respect of all labour employed directly or indirectly on the work for the performance of the contractor's part of work, the contractor at his own expense, will arrange for safety provision as per the statutory provisions, B.I.S. recommendations, factory act, workman's compensation act, CPWD code and instructions issued from time to time. Failure to provide such safety requirement would make the firm liable for penalty as decided by Engineer-in-charge. The agency will be solely responsible for any damages, mishap or injury/death of their staff deployed at the site.

24. Contractor shall submit fortnightly labour report along with details of payment made to staff engaged for this work in two copies. Payment details shall include name of worker, bank account details, amount due, amount paid.
25. Contractor shall make payment to workers at the rates not less than the rates payable as per Minimum Wages as per Delhi Govt. Labour Act /Central Government which ever is higher.
26. The contractor has to supply and maintain log book and record all the operational & routine maintenance parameters, which should be signed by the operational staff deputed by him. The operational staff shall sign "for (Name of contractor)by fixing a rubber stamp every time he signs. The log book should be as per sample approval by the Engineer-in-charge with timing of three shifts printed on each page.
27. Deputed staff should strictly follow the CPWD Maintenance Charter.
28. Bonus paid to labour is reimbursed to the agency after submission of payment voucher, Bank Statement as per actual bonus given to the labour.
29. The contractor shall provide capacity building of all the workers for adopting latest mechanism for attending the day-to-day complaints, execution of Special Repairs Addition/alteration and up-gradation works. The contractor shall tie up with Govt. Institute or any private institute (having certification of MSME, Central or State Govt.) as approved by Engineer-in-charge.
30. The contractor shall submit a training calendar with complete details of training schedule & training content shall be submitted within 15 days for approval of Engineer-in-charge.
31. ESI/EPF of deployed staff will be deposited on regular basis, the same shall be reimbursed to the contractor, on production of proof of deposit of the same with respective Govt. department.
32. The contractor shall undertake replacement/substitution of any staff, found unfit for duty due to any circumstances, **within 24 hours**, as per directions of Engineer-in-charge. The contractor shall make local arrangements, for the shortfall in staff, during intervening period.
33. The contractor shall depute his representative daily to the site of work. The name and signature of his representative attested by the contractor shall be intimated to the Engineer-in-charge.
34. The agency shall maintain a proper dress code with departments Logo (front side) and agency name (back side) of a single suit of orange colour along with designated yellow helmet for labour (skilled & unskilled) & blue for electrician and green for safety environment in-charge along with leather safety shoes and other relatively safety equipments etc. complete for each and every worker during their work hours. The agency is liable to pay a penalty charge of Rs.100/- per day per person in case non-implementation of this dress code, failure of such dress code more than a twice on basis of proper record entries i.e. Site order book / Inspection register by any concerned official of CPWD then department have right to dismiss foreclosure of this agreement before time.
35. Due to security reasons, the contractor shall have to arrange timetable of labour according to the security staff and Engineer-in-charge instructions. The contractor should see the site before the execution of work.

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COVID-19 Conditions

1. As the hospital is taking care of COVID as well as non-COVID patients. Agency is to make all necessary precautionary arrangements like PPE kit, Masks, Sanitizers etc. for their site Engineer and / or workers at their own. Agency is expected to quote their rates considering these conditions. Nothing extra over and above the quoted rates shall be payable on this account.
2. The maintenance of hospital building is very important nature and work to be executed is fixed timeline manner. In case of Non-compliance of work within Stipulated period as specified department reserve the right to recommend to the competent authority to take any action as deemed of part from levy of compensation to black listing from taking up any further work in entire CPWD for next one year.
3. Country is passing through COVID-19 pandemic. Government of India has issued various advisories in terms of maintaining social-distancing, use of sanitizers, masks, etc. by the engineers and/or workers. These advisories and guidelines issued by the Government time to time are to be followed strictly. In case of any traffic restriction by Government in certain areas, agency has to make alternate arrangements at their own to ensure availability of required manpower and materials for unhindered execution of work. Rates quoted by agencies shall be inclusive of following to all such advisories. Nothing extra over and above the quoted rates shall be payable on this account.
4. Work may have to be carried out during odd hours and/or during night shift as per availability of site/work area. Rates quoted by agencies shall be inclusive of every single component likely to be involved for working under such conditions. Nothing extra over and above the quoted rates shall be payable on this account.

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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.....(name of division), CPWD on behalf of the President of India (hereinafter called "The Government") has invited bids under.....(NIT number).....dated..... for..... (name of work). 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(name of division) CPWD 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.....(name of work) 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)..... (herein after referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs..... (Rupees only) on demand by the Government within 10 days of the demand.
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. (Rupeesonly)
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 not withstanding 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 Contractor.
8. We, (indicate the name of the Bank), undertake not to revoke this guarantee except with the consent of the Government in writing.
9. This Bank Guarantee shall be valid up tounless 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 where only financial bids are invited and 180 days for two/three bid system from the date of submission of tender.

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

PART-B

E&M WORK

TERMS AND CONDITIONS (MAINTENANCE OF E.I & FANS)

1. All the works shall be carried out as per CPWD Specifications for Electrical Works, Part-I (Internal)-2023. Part-II (External)-2023 amended up to date. All installations shall comply with the requirement of Indian Electricity Rules 1956 & Indian Electricity Act 2003 as amended up to date and to the entire satisfaction of Engineer-in-Charge.
2. Generally, the contractor has to depute staff as per following shifts for 24 Hrs. round the clock. But the duty hours can be changed as per discretion of the Engineer-in-charge. Normally the staff will be employed as under:

(Sub Head – I & Item No. 1)					
	General shift	Round the clock			Total
Shift	9 AM to 5.00 PM	6 AM to 2 PM	2 PM to 10 PM	10 PM to 6 AM	
Skilled	1	1	1	1	4
Unskilled	2	0	0	0	2

The qualification of above staff shall be as per **Annexure-B**.

The above staffs are minimum requirement. The contractor shall depute more staff as and when situation arises so that the works are executed in time for which no extra cost shall be made. In no case, the contractor shall reduce this staff strength, otherwise recovery shall be affected.

3. The contractor shall deploy all the above worker after approval of details of qualification, experience and identification etc. by Engineer-in-charge.
4. The contractor shall submit list of their qualified & experience staff along with photograph, local & permanent address, copy of Aadhar card, copy of experience certificate, copy of certificate as required as per individual qualification of category and class etc. & duty chart before deployment at site.
5. In the event of any change in the staff, contractor should inform the En-in-charge well in advance and submit the new photo identity of new staff with eligibility documents.
6. The installations shall be maintained on all days of the month including Sundays & holidays. Weekly rest to the staff shall be given by making alternative arrangement for which no separate payment shall be made.
7. Attendance register of staff deputed shall be maintained and kept at site office and duty chart of workers shall be displayed at site office/ service centre. In case of absence of any staff, recovery shall be made at the following rates:
 - a) Wireman/skilled @ Rs. 2016/- per day
 - b) Khallasi/Unskilled @ Rs. 1654/- per day
 - c) For other than above recovery @ 2 times of agreement rate shall be made for absence.
8. Emergency complaints such as no current, leakage of current, sparking, short circuiting, fire hazards of any nature etc. shall be attended within one hour, otherwise a recovery of Rs. 500/- per Emergency complaint /hour shall be made from the Contractor's bill.
9. Minor normal complaints shall be attended within three hours otherwise a recovery of Rs. 500/- per complaint/day shall be made. The complaint register, wireman diary shall be submitted month wisely signed by wireman and occupants.

The Engineer-in-Charge has the right to remove/ terminate the services of any worker without assigning any reason.

10. The scope of work includes–

- (a) Attending day-to-day complaints, repairs of defective parts/ items to make the system functional. Repair /Replacement of all defective circuit /sub-main wiring /point wiring, call bell, power /light plug, AC outlet, Data outlet, step type fanregulator, telephone socket outlet, TV antenna socket outlet, RJ45 socket, ceiling rose, Ceiling fans, Wall fans, Exhaust fan, Distribution boards, SP/ DP/ TP/ FP/ TPN MCBs, Isolators, RCCB, Switch boards, Switch/ Socket, call bell and 1.5 sq mm to 6 sq mm FRLS PVC insulated copper conductor as per schedule of work to make the system functional and Nothing extra is payable on account of the materials required to maintain the electrical installations. It also included the fixing of material for the items of supply under the NIT as & when required /as directed by the Engineer-in-charge.
- (b) Routine and preventive maintenance of rising main, control panels i/c external installations such as street lights, compound lights & bollards etc.
- (c) Painting of electrical installations such as ceiling fans, exhaust fans, street light Poles/ compound light poles, Feeder pillar or other items has to be done once in a year.

11. The contractor has to make his own arrangement of the tools for use by his staff. Further T&P required at site shall be arranged by Contractor. Following T&P shall always be available at site of work otherwise recovery at the rate of Rs 5000/- per month shall be made for number of days it is not found at site of work:

Megger	:	1No.
Earth tester	:	1No.
Crimping tools	:	1Set
Spanner Set	:	1Set
LAN Keysset	:	1Set
Hammer Drill	:	1No.
Hexa frame with blade	:	1No.
Electric blower	:	1No.
Tong tester	:	1No.
Ladder of different sizes		As per site requirement
Tool Bags with required tools such as Plier, Tester, Knives Screw Driver set, PVC tape Rawl Plug with different size of screws etc as required.		1 set with each wireman

12. All the equipments and installations at site of RML hospital campus as per JE(E) direction and all electrical installation at site shall be maintained in neat and clean condition. The watch and ward of installations shall be the responsibility of the contractor.
13. Any damage caused to the fittings/ switch gears/ installations/ machinery as a result of execution of this work shall have to be made good by the Contractor at his own risk and cost.
14. Contractor shall be responsible for any accident at site due to poor work or not complying safety rules and regulations. The Department shall not be responsible for any accident and labour claims during contract & extended period of contract. Firm/Contractor shall have to bear all such claim sat their end only.

15. The contractor will observe all the relevant rules and regulations in force regarding contract labour and the workers of the Contractor shall be his liabilities & they shall have no claim for Governments services, in any form, in the department.
16. The accessories items required for replacement should be dully ISI marked and as per the approved list enclosed. If any of the accessories available in the market is not ISI marked the decision of Engineer –in- Charge with prior approval of will be binding to the Contractor. The decision of acceptability regarding quality of material/ spares items/make shall be of the Engineer-in-charge and shall be binding on Contractor.
17. The Contractor shall be required to maintain sufficient quantity of spares at site to meet with the requirement of attending the complaints/ preventive maintenance as per direction of Engineer-in-charge. (At least for two months stock).

MAINTENANCE SCHEDULE FOR INTERNAL E.I.

Sl.No.	Activity	Periodicity
1.	Inspect the installation i.e. DB's, Switches, RCCB's, MCCB's etc.	Monthly
2.	Check system loading	Quarterly
3.	Servicing of fittings and fans	Yearly
4.	Cleaning of fittings and fans	Monthly
5.	Conduct insulation and earth tests.	Yearly
6.	Conduct Polarity test.	Yearly

18. Inspection of electrical installations is intended primarily from fire safety considerations. Following points need to be observed as part of inspection, and corrective measures as necessary should be taken immediately, including coordination with the client or departments concerned official, as may be required. The inspection register shall be maintained at site and shall be submitted to Engineer-in-charge regularly. Test register shall be maintained at site and shall be submitted to Engineer-in-charge regularly.
- Check that – there is no sign of heating up, burning smell, sparking at any of the boards (SDBs as well as main boards), and Rising Mains. DB shall be opened and the termination of all wires into MCB should be tightened. If any wire is found burnt shall be replaced immediately. Load in each phase at main panel, subpanel and DB's should be measured and if major unbalanced is noticed the same should be corrected by readjusting the load in each phase.
 - No temporary wiring exists anywhere in the building as far as possible.
 - There should not be any joint in cords connecting the WTAC units/ voltage regulators/ office equipments like photocopier, PC, Exhaust fans, fresh air fans etc. The old cords are to be replaced by the new one by the Contractor within the quoted rates.

- d) There should not be any misuse of socket outlets, such as connecting power load to light socket, connection of multiple loads to one socket, use of heaters in record room, library etc. in such cases of additional demands of outlet, these should be provided early, after taking approval of the competent authority.
21. The shafts/spaces for electrical services should not be misused, for storage or for dumping rubbish. The work for cleaning of the shaft / meter room / LT Panel Room is included in the scope of work, for which nothing extra will be paid to the Contractor.
 22. The spaces in front of DB's and sockets should be free from any kind of storage of files/papers etc.
 23. While cleaning fittings and fans, the fixing/ suspending arrangements should also be checked and attended to as necessary. Care should be taken that the alignment will not be disturbed. Proper record for the same shall be maintained.
 24. In the case of ceiling fans, remove the blades, and wash the same with detergent, without causing any deformation of blade angle. Check the shackle and replace if damaged. Check that down rod is fully screwed up to the last thread on both ends and that threads are not loose. If so required, replace with new down rod of the same size, thickness and length of threading (not less than 20 mm). Check split pins and replace if any strain deformation or damage is observed. If any other system of suspension had been adopted, check the soundness of the same and tighten as necessary. Fix fan blade tightly to the body, Operate the fan at different speeds; to ensure no wobbling/noise.
 25. As per specifications; lubrication needs to be done as necessary. In such cases, the fan needs to be brought down, after removing the blades. The old grease should be replaced with a fresh one, after cleaning the bearing. If damaged, the bearing should be replaced. When reinstalling the fan, the suspension bolts should be well tightened.
 26. Insulation test should be done during monsoon season, as per clause 16.2 of CPWD Specifications for Electrical Works Part I Internal 2023 amended up to date.
 27. Earth continuity test and earth electrode resistance test should be conducted during summer season, as per clauses 16.4 and 16.5 of CPWD Specifications for Electrical Works Part-I Internal 2023 amended up to date.
 28. Record the test results giving identification references. If results are not satisfactory in any part of the installation, reasons should be checked and corrective measures be taken immediately. Otherwise, a recovery of Rs.10,000/- shall be levied.
 29. All electrical switchgears/ components/ accessories listed in various supply item in schedule of quantity shall be readily available in contractors store at site with minimum 25% of total quantity to minimize delay in attending the complaints.

30. Dismantle material received from the works shall not be taken back by the department. The contractor may quote their rates considering the salvage value of the dismantle material received after replacement. However all dismantled material should be counted for and details to be entered in the dismantle register maintained by the contractor. This shall always be available at site and should be checked and counter signed regularly by JE/AE/EE. The dismantled material shall be returned to department after replacement of all electrical fixtures and accessories which have been issued by the department
31. The Electrical supervisor/ Engineer of firm are advised to visit the site of work to have an idea of the execution of the work; failure to do so will not absolve their responsibility to do the work as specified in agreement.
32. The contractor shall depute Supervisor for all works covered under the scope, who shall remain present at CPWD Service centre from 9.00 AM to 5.00 PM on all days i/c Sunday and Holidays the over all management of the work at site is the responsibility to the supervisor. He has to monitor that the complaint lodged are attended with in the time schedule. He shall also supervise the quality of work/ workmanship. He shall co-ordinate among client department, CPWD and his staff so as to achieve greater satisfaction of client department. He will also be present during client visit/ departmental officers visit and interact with them for clients' complaints.
33. The work shall be carried out in such a manner so as not to interfere or effect or disturb other works, being executed by other agencies, if any. He shall arrange his work with that of the other in an acceptable and coordinated manner and shall perform it, in proper sequence to the complete satisfaction of the Engineer-in-Charge. Any damage done by the contractor to any existing work shall be made good by him at his own cost. Otherwise, the same shall be got done at his risk and cost.
34. The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the occupants and to the public in general and to prevent any damage to such properties and any pollution of smoke, stream sand waterways. He shall make good at his cost and to the satisfaction of the Engineer-in-Charge, any damage to roads, paths, cross drainage works or public or private property whatsoever caused by the execution of the work or by traffic brought thereon by the contractor. Utmost care shall be taken to keep the noise level to the barest inimum so that no disturbance as far as possible is caused to the occupants/ users of adjoining buildings.
35. If the behavior of the worker is not found satisfactory, the contractor has to change staff within 3 days, failing which, the Engineer-in-Charge has the power to cancel the contract, and the contractor shall have no claim of compensation.

36. All the complaint registers, log books, workers diary, test result registers or any other record shall be supplied by the contractor, maintained by the staff of the contractor and handed over to the department on the completion/termination of the contract.
37. All complaints and work executed shall be properly recorded in the complaint register and documented. This register shall be kept at site office/service centre and abstract of daily complaint received/attended shall be recorded in the register and compiled list of monthly complaint shall be submitted on first day of every succeeding month. Attendance register of staff deputed shall be maintain and kept at site office and duty chart of worker shall be displayed at site office/ service centre.
38. The contractor shall carry out a survey through supervisor every month covering at least 10% of the complaints received during the month and submit feed back report of users to the Engineer-in-charge.
39. After the expiry of the contract, the firm shall have to handover complete installation to the department in proper working order. All defects and deficiencies shall have to rectified by the firm to the entire satisfaction of Engineer-in-charge failing which, the work shall be got done at the risk and cost of the firm.
40. All type of Fans would be re-winded by copper conductor wire and would be re-installed in presence of Engineer in Charge and entry would be made by JE(E) duly countersigned by AE(E) in a separate register.
41. The contractor or his representative is bound to sign the site order book as and when required by the Engineer-in-Charge and to comply with there marks therein.
42. The staff should wear grey colored summer uniform in summer & winter uniform in winter complete in all respect with name plate having name & designation etc. which shall be supplied by the contractor & nothing extra shall be paid by the department on this account. If staff not found in uniform, he will be marked absent and no payment shall be made for that day.
43. In the COVID period, the attendance of staff shall be marked as per Govt. guidelines issue during COVID period.
44. The contractor shall have to pay to their worker according Minimum Wages as per **Delhi Govt. Labour Act /Central Government which ever is higher** through ECS or by Cheque and aquitance roll shall be submit at the time of bill as a proof of payment. If the contractor failed to pay the salary to his worker in time, he himself shall be held responsible for the same and without prior notice to him the contract shall be rejected without assigning any reason
45. The rates quoted shall be inclusive of GST and other taxes in force & nothing extra shall be payable on this account. The contractors shall have provident fund code number and all the workers employed by them has activated universal account number (UAN).

46. No running bill will be paid to the contractor unless he produces the proof of paid receipt of ESI / EPF contribution and other document as required in Agreement to the concerned authority.
47. The contractor should submit an undertaking on affidavit that he has not deputed the staff other than this work. The contractor should also submit an undertaking on affidavit stating that he is not claiming the reimbursement of EPF and ESI for the deputed staff in this work from any other division/ Sub-division of CPWD/ PWD.

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TERMS AND CONDITIONS OF DG SET, SUBSTATION & PUMP SET

For running operation & maintenance of DG SET, Substation& Pump set Equipments

1. All the works shall be carried out as per CPWD for Electrical Works, Part-I (Internal)-2023. Part-II (External)-2023, Part-VII DG Set 2013 and Sub Station 2013 Part-IV amended up to date and as per the instruction & direction of Engineer-in-Charge
2. The scope of work comprises of operation of HT PANEL, LT PANEL, TRANSFORMER, RTCC, CAPACITOR PANEL and PLC PANEL & DGsets with Synchronization panel.
3. Generally, the contractor has to depute staff as per following shifts for 24 Hrs. round the clock. But the duty hours can be changed as per discretion of the Engineer-in-charge. Normally the staff will be employed as under:

(SubHead-II & Item No. 1) DG Set/Substation					
Shift	9 AM to 5.00 PM	6 AM to 2 PM	2 PM to 10 PM	10 PM to 6 AM	
Skilled Staff	-	01	01	01	03
Unskilled Staff	01	-	-	-	01

The qualification of above staff shall be as per **Annexure-B**. The above staffs are minimum requirement, the Contractor shall depute more staff as and when situation arises so that the works are executed in time for which no extra cost shall be made. In no case the Contractor shall reduce this staff strength, otherwise recovery shall be affected.

4. The contractor shall deploy all the above worker after approval of details of qualification, experience and identification etc. by Engineer-in-charge
5. Electrician must have a knowledge of adjusting setting of relay, finding of faults in the system. Operating HT breaker etc. (full knowledge of sub-station, operation and maintenance).
6. The contractor shall submit list of their qualified & experience staff along with photograph, local & permanent address, copy of aadhar card, copy of experience certificate, copy of ITI certificate etc. & duty chart before deployment at site.
7. In the event of any change in the staff, contractor should inform the En-in-charge well in advance and submit the new photos identity of new staff with eligibility documents.
8. JE(E)/AE(E) should invariably record certificate for deployment of staff with uniform during the period before payment is to be released.
9. In case of absence of any staff from duty, the following recoveries shall be made from the Contractor and the Contractor will have no claim from the department:
 - a) Electrician @Rs.2130/- per day
 - b) Wireman/operator @Rs.2016/- per day
 - c) Khallasi @Rs.1654/- per day
10. The operation of Substation equipments & DG set shall be maintained round the clock on all days of the month including Sundays & holidays and weekly rest of the staff shall be given by making alternative arrangement for which no extra payment shall be made.
11. In case of emergency, the staff may have to work beyond normal working hours, for which no extra payment shall be made by the department.
12. The Engineer-in-Charge has the right to get removed the services of any workers without assigning any reason.
13. The worker can be deployed in shifts as per requirement as per discretion of the Engineer-in-Charge.
14. If the behavior of any worker is not found satisfactory, the Contractor has to change the staff within 3 days.
15. The Contractor has to arrange the consumable like, cotton waste, cloth, soap bar, duster, fuse wire, black tape, battery water and all other consumable items except HSD for bonafide use in the work for which nothing extra shall be paid to the Contractor by the deptt.

16. In case of break down, the Contractor's staff shall take immediate remedial action with minimum loss of time. In case of minor faults like blowing out fuses the same be attended immediately & in case of defect in the DG Set installation, the staff shall inform the company, to whom comprehensive maintenance of DGSet have been given by the Contractor and also to the department officials.
17. The Contractor has to arrange T&P s required for the work at site. Nothing extra will be paid.
18. All the equipments and installations will be maintained in neat and clean condition. Watch and ward of the installations and materials will be the responsibility of the Contractor.
19. The scope of work includes operation and day to day maintenance of installations i.e. cleaning of installations, checking of all parts, oil level, lubrication level, batteries terminal & water i/c recording of all parameters and annual comprehensive maintenance of DG set including all material from authorized service dealer only. In case of repairs the Contractor shall arrange additional skilled staff within his quoted rates and without any extra cost. The decision of the Engineer-in-charge shall be final and binding. The HSD and coolant shall be supplied free of cost by the department as per actual requirement at site for which requirement shall be intimated in advance.
20. Painting of DG sets and accessories such as panels etc. has to be done once in a year with superior quality one/ two coats of paint as per instructions of Engineer-in-Charge. The decision of the Engineer-in-Charge shall be final and binding.
21. Any damage caused to the fittings /switchgears/ installations/ machinery as a result to execution of this work shall have to be made good by the Contractor at his own risk and cost.
22. The DG sets are to be operated during failure of main supply and testing of D.G. sets be done as and when required by the department.
23. Daily routine checking shall be carried out by the operator. And testing of DGSet shall be done daily for ten minutes. All daily routine checking & testing & running of DGset be recorded in the logbook.
24. The cost of Sundry material like dhoti, cotton waste, insulation tape and logbook has to be borne by Contractor.
25. The operator employed by the Contractor shall remain employee of the firm, for all purpose and have no claim for employment in the Govt. department.
26. Dismantle material received from the works shall not be taken back by the department. The contractor may quote their rates considering the salvage value of the dismantle material received. However, all dismantled material should be counted for and details to be entered in the dismantle register maintained by the contractor. This shall always be available at site and should be checked and countersigned regularly by JE/AE/EE.
27. The work shall be carried out in such a manner so as not to interfere or effect or disturb other works, being executed by other agencies, if any. He shall arrange his work with that of the other in an acceptable and coordinated manner and shall perform it, in proper sequence to the complete satisfaction of the Engineer-in-Charge. Any damage done by the contractor to any existing work shall be made good by him at his own cost. Otherwise, the same shall be got done at his risk and cost.
28. After the expiry of the contract, the firm shall have to handover complete installation to the department in proper working order. All defects and deficiencies shall have to be rectified by the firm to the entire satisfaction of Engineer-in-charge failing which, the work shall be got done at the risk and cost of the firm.
29. The contractor or his representative is bound to sign the site order book as and when required by the Engineer-in-Charge and to comply with the marks therein.
30. The staff should wear grey colored summer uniform in summer & winter uniform in winter

- complete in all respect with name plate having name & designation etc. which shall be supplied by the contractor & nothing extra shall be paid by the department on this account. If staff not found in uniform, he will be marked absent and no payments shall be made for that day.
31. Refilling/ topup of oil shall be done in presence of the Engineer-in-charge or authorized representative of the dept.
 32. The electric strength of transformer oil is to be tested in presence of engineer-in-charge or authorized representative of the deptt.
 33. In the COVID period the attendance of staff shall be marked as per Govt. guidelines issue during COVID period.
 34. The contractor shall have to pay to their worker according Minimum Wages as per **Delhi Govt. Labour Act / Central Government which ever is higher** through online account payment shall be submit at the time of bill as a proof of payment. If the contractor failed to pay the salary to his worker in time, he himself shall be held responsible for the same and without prior notice to him the contract shall be rejected without assigning any reason.
 35. The rates quoted shall be inclusive of GST and other taxes in force & nothing extra shall be payable on this account.
 36. The contractors shall have provident fund code number and all the workers employed by them has activated universal account number (UAN).
 37. No running bill will be paid to the contractor unless he produces the proof of paid receipt of ESI / EPF contribution and other documents as required in Agreement to the concerned authority.
 38. The contract includes the following (Sub Station): -
 - a. Lubricating/greasing of bearings.
 - b. Replacement of material either consumable or non-consumable i/c parts and accessories, lamp, tubes, MCBs, etc. (The deptt. shall supply all the material "Free of cost" except consumable).
 - c. Operation of switch gears HT, LT, DG sets, AMF panel i/c filling of diesel engine oil etc. diesel will be supplied free of cost by the deptt.
 39. The scope of work includes (DG set): -
 - 39.1 Comprehensive maintenance of all DG Sets with AMF Panel & Battery charger and replacement of worn out/defective/burnt out parts to keep them in proper working condition.
 - 39.2 Repair / replace of all defective part of DG sets & AMF panel
 - 39.3 Repair / rewinding of generator & other associated parts of DG sets
 - 39.4 Preventive maintenance of each DG Set at least once a month.
 - 39.5 Servicing of DG Set as per the schedule of OEM standards including providing & replacement of lube oil, filter etc.
 - 39.6 Any other parts / material required to repair / replacement for smooth, healthy & proper functioning of DG set & AMF panels.
 40. The contractor shall use following material within the scope of comprehensive maintenance of D.G. set along with AMF panels for which nothing extra shall be paid.
 - a. Indication lamps.
 - b. White Petroleum Jelly.
 - c. Battery Water/Acid.
 - d. CRC for cleaning of relays, contractors, alternators carbon brushes etc.
 - e. Proper grade of grease oil for greasing lubricating bearings etc.
 - f. Protection metering fuses, control wiring etc.

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Terms & Condition for comprehensive maintenance of Lift

1. The work is to be carried out as per CPWD General Specifications for Electrical Works, Part-I (Internal)-2023 & Lifts & Escalators – 2023 (Part III) as amended upto date wherever applicable and as per instruction of Engineer-in-Charge.
2. **The Contractor has to associate OEM. The Contractor has to draw the comprehensive maintenance contract with OEM of lift and copy of the MOU shall be given to the Engineer in-charge just after award of work.**
3. The lifts are of various makes and the firm will have to carry out comprehensive maintenance of the lifts as per manufacture's recommendations / CPWD Specifications.
4. The lifts are used by a large number of patients, attendanant, doctors and RML staff in Hospital. The firm shall have to ensure that the lifts are always available in safe working condition and in the event of any difficulty in any of the lifts, the operation of the same will not be allowed by the firm.
5. The comprehensive maintenance includes all major or minor repairs or replacements components of the lift machinery.
6. The firm will have to depute trained and experienced lift mechanics for attending the lifts. The lift mechanics should be on rolls of the firm who will work under the supervision of the firm's qualified supervisors / engineers. The firm / associated firm will have to ensure safe operation of all the lifts at all the time.
7. The firm will have to provide periodical servicing of the lifts which will include checking of various components, lubrication, adjustment, cleaning etc. as per recommendation of manufacturer. The reports of such checking are will have to be submitted to the Engineer – in – charge lift wise.
8. In the event of break down in any lift, the firm will have to provide prompt call back service on round the clock basis including holidays and Sunday.
9. The Department reserves the right to witness servicing / repair / work done by the firm in the lifts.
10. No advance payment will be made. Quarterly payment of the work done will be made.
11. The work involves comprehensive maintenance of lifts in ABVIMS Bldg. at Dr. RML Hospital complex New Delhi. Most of the lifts are used on round the clock basis. Since the lifts are used by the RML staff & related person, any failure in the lift causes undue hardships to the staff. In order to ensure that any breakdown is attended promptly, the firm will have to depute their trained personnel so that their services are available at a very short notice.
12. Any fault occurring in the smooth running of the lift shall be attended within the period mentioned in Annexure 'A'. If the lift remains unoperative because of any cause beyond the period mentioned in attached Annexure 'A' then the recovery shall be made @ Rs. 1500/- per day per lift.
13. Following equipment shall be repaired/replaced by the firm which shall be covered under scope of comprehensive maintenance:
 - (i) All equipment installed in machine room including motor generator, ropes, wires, cable, control panel and components required for such equipments.
 - (ii) Any mechanical, electrical, electronic parts for machine or control panel.
 - (iii) All car and hall buttons, indicators, signal fixtures and position indicators.
 - (iv) All safety equipment including adjustment and testing of such equipments.
 - (v) Car, counter, weight, guide rails, buffers, top and bottom limit switches.
 - (vi) All interlocks and satisfactory operation of such interlocks.

(vii) ARD system included satisfactory operation excludes the Batteries.

The repair / replacement and maintenance of the parts shall not be limited to the items mentioned above but shall cover all parts, equipments, controls required for safe and satisfactory operation of the lifts, whether mentioned here or not.

14. The record of any repair, replacement and inspection shall be maintained the register available at site.
15. The firm shall be responsible for any accident that occurs due to malfunctioning of the lifts due to inadequate maintenance of the lifts and allied equipment.
16. On completion of the maintenance contract, the firm shall hand over the installation to the department in perfect working conditions and with a certificate that all the equipment, parts, operations / safety systems are safe and sound on the date of handing over the installations.
17. The quoted rates should be inclusive of all taxes etc. i.e. GST and nothing extra will be paid
18. Agency should ensure all the lift safeties in working conditions, if any mishap occurs due to non-working safeties, the responsibilities will lie on the Agency.
19. All indications provided in car and on landings shall be in working conditions. Defects shall be rectified at on early date so that users will be well informed about lift movement.
20. If any part required to be replaced is not covered in the contact, Agency should inform the department to get it replaced for smooth working of lifts.
21. The complete circuit diagrams for each lift under comprehensive maintenance shall have to be displayed by the firm in the respective M/C room.
22. All spares of original make should be used.
23. Conditional offer will not be accepted.

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Additional Specification and Conditions for LIFT

1. Period of contract is valid for 12 Months from the date of acceptance of the contract but it can be extended or terminated at any time.
2. The firm shall depute trained supervision staff for the maintenance and upkeep ment of the lifts in the operating conditions.
3. The technician / lift mechanic of the firm shall visit at least once a month and make entries in the logbook (to be provided by the department) of the service and other works carried out by him. The lift mechanic of the company shall certify in the logbook that the lift "is fit for use" and that all the safety devices are working. He shall also mention his name with dates and time in the logbook.
4. Besides the periodical visit the complaint lodged over telephone shall be made by the officials of department viz Assistant Engineer (E), Junior Engineer (E), lift operator or by the client department and the same will be entered in the logbook and the said complaint must to be attended within 24 hours by the firm.
5. The department will make payments to the contractor on the rate approved in the agreement, if the efficiency of the lift is 90% or more. If the performance is less than 90% then proportionate payment shall be made. If the lift efficiency is less than 90% the payment shall be made as below method:

Let, Monthly payment due Rs.100.00

Percentage of efficiency 85%

Proportionate payments Rs.85.00

Relaxation is permissible to the extent and on the items indicated in Annexure 'A'

6. The maintenance, routine as well as preventive shall be carried out as per manufactures standard practice.

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Annexure 'A'**Points Valid for availing relaxation as below:**

The Following relaxation in computing of efficiency will be given:

Due to break down / failure	No. of days
Rewinding of DC Hoist Motor, AC motor, replacement of brush, bearings, repair of armature.	10 days
Replacement of carbon brush, replacement of rectifier, replacement / repair of thyristor panel	1 day
Repair of gear box	8 days
Replacement of sheave and steel rope	3 days
Replacement of steel rope, chain, tape of selector, governor	2 days
Replacement of brake shoe lining	1 day
Replacement of trailing cable	5 days
Rewinding, repair of brake motor, door drive, cam motor	1 day
Any other fault except above faults	6 Hours

TERMS AND CONDITIONS FOR LIFTS

FOR RUNNING OPERATION OF PASSENGER LIFT

1. The work is to be carried out as per CPWD General Specifications for Electrical Works (Part 1-2023) & Part-III Lifts & Escalators 2023 as amended upto date wherever applicable.
2. Contractor has to depute following staff. But the duty hours can be changed as per discretion of the Engineer-in-charge. Normally the staff will be employed as under for each site.

(Sub Head – III & Item No. 1)					
Shift	9 AM to 5.00 PM	6 AM to 2	2 PM to 10 PM	10 PM to 6 AM	Total
Skilled	-	2	2	2	06
Unskilled	1	-	-	-	01

The qualification of above staff shall be as per Annexure-B. The above staffs are minimum requirement, the Contractor shall depute more staff as and when situation arises, for which no extra cost shall be made. In no case the Contractor shall reduce this staff strength, otherwise recovery shall be affected. The duty timing can be changed as per direction of the Engineer-in-charge. The lift Operator should know the rescue operation as per manufacturer standard in case of emergency.

3. The contractor shall deploy all the above worker after approval of details of qualification, experience and identification etc. by Engineer-in-charge
4. The contractor shall submit list of their qualified & experience staff along with photograph, local & permanent address, copy of aadhar card, copy of experience certificate, copy of certificate of 10th standard etc. & duty chart before deployment at site.
5. In the event of any change in the staff, Contractor should inform the En-in-charge well in advance and submit the new photo identity of new staff with eligibility documents.
6. JE(E)/AE(E) should invariably record certificate for deployment of staff with uniform during the period before payment is to be released.
7. The Contractor has to ensure cleaning of lift car. It will be cleaned at least once in a day and the operator has to daily check the working of all safeties of the lift and the proper record for the same shall be maintained by the Contractor as per CPWD specifications.
8. The installations shall be maintained on all days of the month including Sundays & holidays and weekly rest of the staff shall be given by making alternative arrangement for which no extra payment shall be made.
9. In case of emergency the staff may have to work beyond normal working hours, for which no extra payments shall be made by the department.
10. In case of absence of staff from duty, the following recoveries shall be made from the Contractor and the Contractor will have no claim from the department:
Lift Operator @ Rs. 2016/- per person per shift.
11. In case of break down, the Contractor's staff shall take immediate remedial action with minimum loss of time. In case of minor faults like blowing out fuses the same shall be attended immediately & in case of defect in the lift installation, the staff shall inform the company, to whom comprehensive maintenance of lift have been given and also to the department officials.
12. In case of break down or stopping of lift between the landings on account of any interruption in power supply the rescue operation shall have to be performed by the lift operator.
13. The contractor / Firm should maintain logbook for lift and these duly verified and signed by AE (E)/ JE (E) should be available at site and when required by the officer which shall be provided by the contractor without any extra charges. It is the duty of lift operator to mention the time of breakdown and when it has been again put into service in the log book.

14. Complaint lodged with firms shall also be entered in the log book with complaint number, date and time.
15. All the lighting & fans in car & machine room and shaft lighting shall be maintained by the Contractor. The required material for the same shall be arranged by the firm and nothing extra shall be paid on this account.
16. Following items shall be checked by the staff in the duty shift and will be entered in the logbook of the lift: -
 - a) Electrical and mechanical inter locking of car and landing doors is to be ensured that the same is in order and working satisfactorily; otherwise, the complaint shall immediately be lodged to the manufacturer who is maintaining the lift as well as the department officials.
 - b). Level of the car at all the landing should be in order always.
 - c.) ARD/ Intercom system provided in the lift is in working order.
 - d). Emergency switch, light and alarm are working. In case of any defect noticed in above items, immediate action will have to be taken by the staff to bring it to the notice of the lift company and Engineer-in-charge for taking action for rectification and to enter in the log book promptly and shown to Engineer-in-charge on demand.
 - e). Cleaning of lift car.
 - f). Non-compliance of the above instruction will lead to the recoveries as decided by the Engineer-in-charge.
17. The Engineer-in-Charge has the right to get removed the services of any worker without assigning any reason.
18. The workers can be deployed in shift duty as per requirement & as per discretion of the Engineer-in-Charge.
19. If the behavior of the worker is not found satisfactory, the Contractor has to change staff within 3 days.
20. The watch and ward of the lifts installation and materials will be the responsibility of the Contractor.
21. The operators shall always ensure that the lift car is always in a presentable condition. The agency shall provide necessary cleaning materials fresheners for proper up-keep-ment of lift cars and lift machine rooms. Firm will keep record of date and time of cleaning of lift & lift rooms, duly signed by the person who has done the job. It shall be produced before the officer during the inspection.
22. The safe custody of plant & machinery shall be the responsibility of the Contractor. The up-keep of the machine room will be deemed to be handed over to the Contractor after award of work.
23. Any accident involving damage to human life, lift machinery, equipment etc. due to mal operation of lift, by the staff of Contractor, will be the responsibility of the Contractor. The firm has to make good the losses, of that by way of replacement of machinery, equipment, compensation to the person etc. Engineer-in-Charge decision in this regard shall be final and binding on the firm.
24. Any loss due to mal operation of the lift shall be the responsibility of the Contractor.
25. Any loss/ damages to the lift equipments shall be recovered from the Contractor. In this respect the decision of Engineer-in-Charge shall be final, and binding on the Contractor.
26. The Contractor has to arrange the consumable like detergent, cloth, soap bar, duster etc.
27. The Lift operator must have proper training of rescuing of a person entrapped in the lift car.

28. Dismantle material received from the works shall not be taken back by the department. The contractor may quote their rates considering the salvage value of the dismantle material received. However, all dismantled material should be counted for and details to be entered in the dismantle register maintained by the contractor. This shall always be available at site and should be checked and counter signed regularly by JE/AE/EE.
29. The work shall be carried out in such a manner so as not to interfere or effect or disturb other works, being executed by other agencies, if any. He shall arrange his work with that of the other in an acceptable and coordinated manner and shall perform it, in proper sequence to the complete satisfaction of the Engineer-in-Charge. Any damage done by the contractor to any existing work shall be made good by him at his own cost. Otherwise, the same shall be got done at his risk and cost.
30. After the expiry of the contract, the firm shall have to hand over complete installation to the department in proper working order. All defects and deficiencies shall have to be rectified by the firm to the entire satisfaction of Engineer-in-charge failing which, the work shall be got done at the risk and cost of the firm.
31. The contractor or his representative is bound to sign the site order book as and when required by the Engineer-in-Charge and to comply with the remarks therein.
32. The staff should wear grey colored summer uniform in summer & winter uniform in winter complete in all respect with name plate having name & designation etc. which shall be supplied by the contractor & nothing extra shall be paid by the department on this account. If staff not found in uniform, he will be marked absent and no payment shall be made for that day.
33. All the staff will be employee of the contractor for all purposes and will not claim permanency/quasi permanency in the department or any such claim will not be entertained by the department.
34. In the COVID period the attendance of staff shall be marked as per Govt. guidelines issue during COVID period.
35. The rates quoted shall be inclusive of GST and other taxes in force & nothing extra shall be payable on this account.
36. The contractor shall have to pay to their worker according Minimum Wages as per **Delhi Govt. Labour Act / Central Government which ever is higher** through ECS or by Cheque and acquittance roll shall be submit at the time of bill as a proof of payment. If the contractor failed to pay the salary to his worker in time, he himself shall be held responsible for the same and without prior notice to him the contract shall be rejected without assigning any reason.
37. The contractors shall have provident fund code number and all the workers employed by them has activated universal account number (UAN).
38. No running bill will be paid to the contractor unless he produces the proof of paid receipt of ESI / EPF contribution and other document as required in Agreement to the concerned authority.

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TERMS AND CONDITIONS

FOR RUNNING OPERATION OF FIRE FIGHTING SYSTEM & FIRE ALARM SYSTEM

1. All the works shall be carried out as per CPWD Specifications for Electrical Works, Part-I (Internal)-2023, Part-II (External)-2023, Fire detecton and alarm system 2018 (Part-VI) and Wet riser and sprinkler system 2020 (Part-V) as amended upto date and to the entire satisfaction of Engineer-in-Charge.
2. The Contractor's staff will regularly inspect and maintain the system, so as to ensure the effective working of the system in case of any fire mishap, which is the essence of this contract.
3. The Contractor's staff shall do cleaning of detectors with vacuum cleaner at least quarterly.
4. The Contractor's staff shall also attend to emergency calls or break down services due to any fault in the system and nothing extra shall be paid on this account.
5. Generally, the Contractor has to depute following staff for 24 Hrs. round the clock. But the duty hours can be changed as per discretion of the Engineer-in-charge. Normally the staff will be employed as under. The fire fighting operator shall also operate the water supply pump alongwith his own duty for which nothing extra shall be paid.

(Sub Head – IV & Item No. 1 & 2)					
Shift	9 AM to 5.00PM	6 AM to 2 PM	2 PM to 10 PM	10 PM to 6 AM	Total
Skilled (Fire Fighting)	-	01	01	01	03
Unskilled	01	-	-	-	01
Skilled (Fire Alarm)	-	01	01	01	03
Khallasi	01	-	-	-	01

The qualification of above staff shall be as per **Annexure-B**. The above staffs are minimum requirement, the Contractor shall depute more staff as and when situation arises, for which no extra cost shall be made. In no case, the Contractor shall reduce this staff strength, otherwise recovery shall be affected. The duty timing can be changed as per direction of the Engineer-in-charge.

6. The contractor shall deploy all the above worker after approval of details of qualification, experience and identification etc. by Engineer-in-charge
7. Following recovery shall be made:
 - i) Failure to attend break down complaints @ Rs.1500/- per day after 24 Hrs. of complaint.
 - ii) Failure to do monthly visit @ Rs.3000/- Per Months.
8. The contractor shall submit list of their qualified & experience staff along with photograph, local & permanent address, copy of aadhar card, copy of experience certificate, copy of ITI certificate etc. & duty chart before deployment at site.
9. The installations shall be maintained on all days of the month including Sundays & holidays and weekly rest to the staff shall be given by making alternative arrangement for which no extra payment shall be made.
10. The contractor shall submit list of their qualified & experience staff along with photograph, local & permanent address, copy of aadhar card, copy of experience certificate, copy of ITI certificate etc. & duty chart before deployment at site.
11. The Contractor's staff shall be well conversant with the running of pump set. The staff shall be responsible to clean their equipments and environments.
12. Logbook for pump set shall be maintained in proper form and shall be kept up to date. It should be duly signed by the Contractor's staff in order to keep proper monitoring. The instruction of the Engineer-In-Charge or his superior officer shall be recorded in the logbook.
13. To liaison coordination with NDMC/MCD/BSES regarding supply of electricity/ water, so that the water supply is not adversely affected.

14. Any damage caused to the pump set, L.T. Panels / control panel or its accessories due to carelessness of the Contractor's staff or any shall have to be made good by the Contractor at their own cost and nothing extra shall be paid on this account.
15. The scope of work Repairing/replacement of valves, NRV, contactor, relay, timer, SPP, starters & welding work. The decision of the Engineer-in-Charge shall be final and binding. Nothing extra is payable on account of the materials required to maintain the Water supply system.
16. The cost of Sundry material like Soap, duster, dhoti, cotton, waste and log book, uniform and shoes & badges has to be born by Contractor.
17. Dismantle material received from the works shall not be taken back by the department. The contractor may quote their rates considering the salvage value of the dismantle material received. However all dismantled material should be counted for and details to be entered in the dismantle register maintained by the contractor. This shall always be available at site and should be checked and counter signed regularly by JE/AE/EE.
18. The work shall be carried out in such a manner so as not to interfere or effect or disturb other works, being executed by other agencies, if any. He shall arrange his work with that of the other in an acceptable and coordinated manner and shall perform it, in proper sequence to the complete satisfaction of the Engineer-in-Charge. Any damage done by the contractor to any existing work shall be made good by him at his own cost. Otherwise, the same shall be got done at his risk and cost.
19. After the expiry of the contract, the firm shall have to hand over complete installation to the department in proper working order. All defects and deficiencies shall have to rectified by the firm to the entire satisfaction of Engineer-in-charge failing which, the work shall be got done at the risk and cost of the firm.
20. The contractor or his representative is bound to sign the site order book as and when required by the Engineer-in-Charge and to comply with the remarks therein.
21. The staff should wear grey colored summer uniform in summer & winter uniform in winter complete in all respect with name plate having name & designation etc. which shall be supplied by the contractor & nothing extra shall be paid by the department on this account. If staff not found in uniform, he will be marked absent and no payment shall be made for that day.
22. Biometric attendance system for all deployed workers shall be provided, installed at site at suitable locations and maintained in good working condition by the contractor at his own cost, for which nothing extra shall be paid. In & out, both timings should be marked by every engaged staff in biometric attendance machine failing which it will be treated as absent. In Round the clock shift duty, current shift staff will relive only when staff of next shift join duty for staff working in shifts.
23. In the COVID period the attendance of staff shall be marked as per Govt. guidelines issue during COVID period.
24. JE(E)/AE(E) should invariably record certificate for deployment of staff with uniform during the period before payment is to be released.
25. In case of absence of any staff from duty, the following recoveries shall be made from the Contractor and the Contractor will have no claim from the department:
 - a. Operator @ Rs. 2016/- per day
 - b. Khallasi @ Rs. 1654/- per day
26. To keep fire fire fighting system and accessories fully operational at all times and the test run of the same, as directed by the Engineer-in-charge, testing, maintenance and repair consisting supply and replacement of bulb/LED, LED signages, fire detectors, hooters, speakers, glasses, holders, Card, distilled water etc. are included in the scope of work and no extra payment will be made on this account.
27. The Down comer/Sprinkler/wet riser/ FA system shall be kept ready for operation at all time. If the system is not found in working order within one day for its repair, then a recovery @ 500/- per day will be made.
28. The Contractor's staff shall do weekly testing of the complete installation or as and when directed/required by the Engineer-in-charge and the same shall be entered in logbook, which is to be counter signed by the JE (E) in charge.

29. The preventive maintenance of FAS, wet riser/down comers shall be carried out as per scope of work and includes periodical checking & testing of all installation & to keep ready for operation at the time of emergency / need / Fire and to keep it in auto mode.
30. Operator engaged for fire-fighting system shall also have the knowledge of functioning of fire alarm system. Daily check of fire alarm system will be done by operator.
31. Fortnightly and monthly check of fire alarm system shall be got done for above by the technician having experience of comprehensive check of fire alarm system.
32. The following works i.e. tests/checks are to be carried out for FAS as per the demand of the installations and / or as per direction of the Engineer-in-charge and proper log books should be maintained and got test checked by the Engineer-in-charge, or his authorized representatives.

- **Daily**

- i. Check the power supply of all the Main panel in building.
- ii. Check the LEDs of panels through lamp test switch.
- iii. Check the healthiness of battery as reqd.
- iv. Check the fault indication of the Main panel and rectify the same.
- v. Check operational readiness of the system during main failure.

- **Fortnightly**

- i) Check the fire circuits from each Loop of the Main panel/MCP.
- ii) Check the fault circuit of each Loop from the panel.

- **Monthly**

- i) Check & test the performance of all the hooters/alarms/speakers/talk back unit.
- ii) Check the performance of the manual call points. Check its glasses.
- iii) For DOWN COMER SYSTEM, the following works i.e. tests/checks are to be carried out as per the demand of the installation, and /or, as per direction of the Engineer-in-charge and proper logbook should be maintained and got test checked by the Engineer-in-charge or his authorized representative.

- **Weekly**

- i) Check the water level in the fire tank/terrace tank, and fill-up the tank
- ii) Check all glands/valves at the terrace and prevent leakages, if any.
- iii) Check healthiness of the power supply of the main control/starter panel, voltage, fuses, remote starters, contactors, power, connection etc.
- iv) Check the status of hose pipes, nozzles etc.
- v) Check the working condition of the pump-motor set.

- **Monthly**

- i) Test checks auto-manual function of the pressure switch of the down-comer system.
- ii) Check and clean the Y-stainer/stop valves flange gaskets as reqd.

33. Conducting of fire drills.

For making the users familiar with the system, fire drill shall be carried out. Local fire service and nodal officers in charge of various parts of the building shall be involved in conducting the drill. Operation of the system shall be demonstrated so that all users are confident of the system and aware of their duties and responsibilities during fire.

34. Healthiness of System

The healthiness of system shall be checked through fortnightly testing. During the fortnightly testing of particular block all internal hydrants and adjoining yard hydrants of the building shall be operated and checked.

35. During the subsequent fortnight different blocks shall be selected so as to ensure that all the internal hydrants and yard hydrants of all the blocks are checked once in six months.
36. The details of such fortnightly testing shall be conducted in the presence of JE(E) and AE(E) in-charge to the extent feasible and shall be recorded in register along with date, time and findings.
37. The following consumable materials, tools and items for maintaining the down comer system, and fire alarm system shall be arranged by the firm at their own cost and shall be kept ready at site in sufficient quantity under the scope of work for which nothing extra shall be paid.
38. Tool & plant required to operate, repair servicing and to maintain the wet riser, yard hydrant, sprinkler, fire fighting pump, like spanners, goti sets, screw driver, crow bars, multi meter, blower, crimping tool, torch, hand lamp, bucket, container, table, chair, almirah & other unforeseen T & P shall be arranged by the Contractor and nothing shall be paid extra on this account.
39. All the defects/fault condition should be removed and the system should be brought to working order within 24 Hrs, otherwise a recovery at the rate of Rs.1500/- per day shall be recovered from the bill of the Contractor.
40. After the expiry of the contract, the firm shall have to hand over complete installations to the department in proper working order. All defect and deficiencies shall have to be rectified by the firm to the entire satisfaction of Engineer-in-charge, failing which the work shall be got done at the risk and cost of the firm.
41. Refilling condition of all Cylinder shall be informed to Engineer-in-charge from time to time regularly.
42. Dismantle material received from the works shall not be taken back by the department. The contractor may quote their rates considering the salvage value of the dismantle material received. However, all dismantled material should be counted for and details to be entered in the dismantle register maintained by the contractor. This shall always be available at site and should be checked and counter signed regularly by JE/AE/EE.
43. The work shall be carried out in such a manner so as not to interfere or effect or disturb other works, being executed by other agencies, if any. He shall arrange his work with that of the other in an acceptable and coordinated manner and shall perform it, in proper sequence to the complete satisfaction of the Engineer-in-Charge. Any damage done by the contractor to any existing work shall be made good by him at his own cost. Otherwise, the same shall be got done at his risk and cost.
44. After the expiry of the contract, the firm shall have to hand over complete installation to the department in proper working order. All defects and deficiencies shall have to rectified by the firm to the entire satisfaction of Engineer-in-charge failing which, the work shall be got done at the risk and cost of the firm.
45. The contractor or his representative is bound to sign the site order book as and when required by the Engineer-in-Charge and to comply with the remarks therein.
46. The staff should wear grey colored summer uniform in summer & winter uniform in winter complete in all respect with name plate having name & designation etc. which shall be supplied by the contractor & nothing extra shall be paid by the department on this account. If staff not found in uniform, he will be marked absent and no payment shall be made for that day.
47. In the COVID period the attendance of staff shall be marked as per Govt. guidelines issue during COVID period.
48. The contractor shall have to pay to their worker according Minimum Wages as per **Delhi Govt. Labour Act / Central Government which ever is higher** through ECS or by Cheque and aquitance roll shall be submit at the time of bill as a proof of payment. If the contractor failed to pay the salary to his worker in time, he himself shall be held responsible for the same and without prior notice to him the contract shall be rejected without assigning any reason

49. The rates quoted shall be inclusive of GST and other taxes in force & nothing extra shall be payable on this account.
50. The contractors shall have provident fund code number and all the workers employed by them has activated universal account number (UAN).
51. No running bill will be paid to the contractor unless he produces the proof of paid receipt of ESI / EPF contribution and other document as required in Agreement to the concerned authority
52. For refilling of fire extinguishers –
 - a. All the fire extinguishers shall be removed and reinstalled properly after refilling as per the instructions of Engineer-in-charge
 - b. Contractor shall give the guarantee for 1 year from the date of installation after.
 - c. Contractor should paste the service slip on extinguisher showing date of refilling and date of expiry.

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Term and conditions for Operation & maintenance of Mechanised Car Parking System

1. The type and capacity of the system is 2-car hydraulic stack type - 52 No.
2. The Contractor has to associate OEM. The Contractor has to draw the comprehensive maintenance contract with OEM of Mechanised Car Parking System and copy of the MOU shall be given to the Engineer in-charge just after award of work.
3. No T&P shall be issued to the Contractor.
4. Routine preventive maintenance of all mechanical and electrical components of the car parking system. Attending to breakdown calls and emergency services.
5. Lubrication of moving parts.
6. Checking and adjustment of control panels, limit switches, sensors, safety locks, hydraulic systems, motors, chains, pulleys, etc.
7. Replacement of minor consumables like grease, oil, fasteners (if required).
8. Detailed quarterly inspection and report submission to the client.

Service Frequency

- 1.1 Preventive maintenance shall be carried out once every three months.
- 1.1 Breakdown calls shall be attended to within 24 hours of intimation.
- 1.2 In case of an emergency, the response time should not exceed 4 working hours.

Operation & maintenance:

Following staff shall be deployed in the campus or as directed by Engineer-In-charge 24 X 7 on all days.

(Sub Head – VI & Item No. 1)					
Shift	9 AM to 5.00PM	6 AM to 2 PM	2 PM to 10 PM	10 PM to 6 AM	Total
Skilled Staff	-	1	1	1	03
Khallasi	1	-	-	-	01

Running operation and maintenance schedule.

Below mentioned is the list of schedules of works activities to be performed as part of running operation and maintenance. However, the reporting of the defects noticed during the running operation and maintenance necessitating replacement and rectification through annual comprehensive maintenance (other than the one detailed herein) shall be timely reported by the operating personnel to the agency responsible for providing comprehensive maintenance services or to the executing agency within the expiry of defect liability period.

1. Daily operation schedules:

- 1.1 Checking operation of sensor units.
- 1.2 Software status checking for proper operation.
- 1.3 General cleanliness.
- 1.4 Reporting of any defect to the concerned personnel.
- 1.5 Generating reports and submission to the client department on day to day basis.
- 1.6 User fee collection and deposition with the client (if required).
- 1.7 Any other activity required.

2. Weekly checkups:

- 2.1 General inspection of the system.
- 2.2 Bearing inspection for proper operation.
- 2.3 Wheels for proper operation.
- 2.4 Check all mechanical connection for tightness.
- 2.5 Greasing of all moving parts including chains, open bearing etc.
- 2.6 Checking of all electrical connections for proper tightness.
- 2.7 Check for blown-out fuses in any circuitry and replace the same.
- 2.8 Check Surge Protection Devices for damages and replace if necessary.
- 2.9 Check and replace belts and tensioners if necessary.

3. Monthly checkups:

- 1.1 Hydraulic equipment for proper operation and defects if any.
- 1.2 Wire rope/chains for proper operation and defects including lubricating of chains.
- 1.3 Flexible electrical control cables for damages.
- 1.4 Oil change at every 10,000 hours on gear drives.

Comprehensive maintenance schedule :-

The below mentioned list is the mandatory replacement and repairs works to be undertaken as part of the annual comprehensive maintenance. The breakdown calls/shut down maintenance for the installation also shall form scope of the contract and shall be executed by the agency within this scope of work. If any maintenance work involving replacement of spares and labour and other incidental charges, of all items and all consumables to be incurred during the course of the annual comprehensive maintenance contract, shall be provided by the agency in scope of this work.

Half-Yearly repair works

- (i) Oil level check up and top up in gear drivers.
- (ii) General inspection of drives for damages and repair if needed.
- (iii) Check MCBs, electrical panel boards and tighten all terminals and check for defects if any. Replace if required.
- (iv) Street platforms to check for defects, deformation beyond limits and repair if any.
- (v) Steel and Concrete Structure to be checked for any defects like, cracks, delamination of cover concrete, peeling of paints, corrosion of structural steel members etc.,
- (vi) Fixed electrical controls cables to be checked for damages and to be repaired.
- (vii) Any other item as is necessary for proper function of system.

Term and conditions for Operation & maintenance of CCTV & PA SYSTEM

1. The work shall be carried out strictly in accordance with CPWD specifications for Electrical Works 2023 Part-I (Internal) as amended upto date and to the entire satisfaction of the Engineer-in-Charge.
2. Following shall be deployed in mentioned shift otherwise recovery shall be made at double the rate.
 - a). Electronic Technician- 1No. (ITI in Electronic/Computer with minimum 2 years experience in CCTV system) in 01 shift, failing which recovery @ Rs. 2130/- per person per shift shall be affected from the bill.
 - b) Assistant to Electronic Technician (2 years experience in CCTV system)- 1 No. round the clock in 01 shift, failing which recovery @ Rs. 2016/- per person per shift shall be affected from the bill.

(Sub Head – VII & Item No. 1)					
Shift	9 AM to 5.00 PM	6 AM to 2 PM	2 PM to 10 PM	10 PM to 6 AM	
Skilled	1	-	-	-	01
Unskilled	1	-	-	-	01

3. No T & P shall be issued departmentally.
4. Contractor shall submit names along with government issued ID of their workmen before start of work and he shall be responsible for conduct & behavior of his worker. Any damage to the Government property shall make good by the contractor the same within quoted rates.
5. The deployed staff must be in proper uniform with display of badge on the uniform while on duty. Supply of uniform & badge will be within the scope of work and nothing extra shall be paid on this account. Any worker if found without uniform & badge an amount of Rs. 250/- per day per deployed staff shall be deducted from the bill of the contractor.
6. It will be responsibility of the deployed staff to watch & ward of control room i/c all equipment, cable and cameras etc as required.
7. The deployed staff will have to keep the control room and cameras neat and clean.
8. In the COVID period the attendance of staff shall be marked as per Govt. guidelines issue during COVID period.
9. The contractor shall be responsible for alternative arrangement in case of deployed engineer & technician goes on leave.
10. The contractor shall be fully responsible for safe working of CCTV systems. Nothing shall be paid extra by the department to the contractor on account of any mishappening during the contract period. It will be the sole responsibility of the contractor.
11. The deployed staff is required to check complete system for safety daily.
12. The contractor should maintain Log Book & made entry i/c complaints & intimate to the JE(E)/Engineer-in-charge immediately.
13. Co-ordination with the client department shall be responsibility of the firm for which nothing extra shall be paid.
14. Recovery @1% on account of labour welfare cess and 2% on GST shall be made from contractor's bill.
15. The intending agency must have registration under E.S.I & EPF as per EPF&MP Act 1952. The rates quoted shall inclusive all taxes such as GST etc. Statutory deduction of contract tax at source shall be made while releasing payment through running/ final bills.
16. The contractor will pay the wages to his staff through Bank or ECS or Online transfer to his bank account only & relevant document proof shall be submitted before during payment.
17. The quoted rates shall be inclusive of all taxes.
18. The labour charges of supplied material like BNC connectors, RJ-45 connector shall be charged in Item No. 01.
19. The workers deployed at site shall be on the rolls of the contractor and the department shall not be responsible for any court case/regularization of these workers. The contractor shall

- be responsible for any legal complication/court case.
20. The staff deployed by the contractor shall wear uniform, Navy blue trouser, light blue shirt, grey sweater/Jacket with CPWD and contractor name in 75 mm fonts in English/Hindi on back of shirt/sweater/jacket and name and designation badge on front side of shirt, failing which recovery @ Rs. 50/- per person per day shall be affected from the bill.
 21. Wherever applicable to obtain license under Contract Labour Act (in case of 20 or more workers in security and manpower supply work etc.) and Registration under Building & Construction (RACS Act 1996) (in case of 10 or more for construction, maintenance, cable laying etc.)
 22. Payment of minimum wages as notified by the Central Govt. and Delhi Govt. (whichever is higher)
 23. Deduction of statutory EPF and ESI contribution and deposit the same to concerned authority in time.
 24. Issue employment card, wages slips and experience certificate to the contract worker.
 25. Make the payment by 7th day of next month in presence of authorized representative of principal employer otherwise fail to make the payment shall be recovery per person per day @ 200/-
 26. Provide paid weekly off to all the contract workers and make the payment at the overtime rate if called for work on weekly off.
 27. Provide welfare amenities as per the law.
 28. Comply the Terms and Condition provided in the license.
 29. The bidders are advised for visiting website www.etender.cpwd.in upto last date & time of submission of tender for checking amendment/corrigendum etc.
 30. The contractor is advised to visit the site before quoting their rates.
 31. The releasing of final payment to the Contractor as per GFR (General Financial Rules) a satisfactory completion/installation certificate may be obtained from the user/client and submitted to CPWD.

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OPERATION & MAINTENENCE OF RO WATER SYSTEM

1. The work including complete cleaning of the panel checking thoroughly the system, tanks, piping.
2. The contractors are advised to get familiarized with site conditions before tendering for this work.
3. All the solar panels shall have to be cleaned twice weekly as per pre decided schedule. Otherwise, recovery @1000/- Per Visit from the contractor bill.
4. No extra labour will be given for the installation of heater, thermostat, PT-100 and pipe accessories like Tee, Union, Nipple etc.
5. No extra payment shall be given for regular maintenance item Tee, Union, Nipple & other all accessories etc.
6. Contractor should maintain a register signed by authority for the confirmation of hot water service to the client department.
7. The contractor shall make his own arrangement at his own cost for electrical/general tools and plants required for the work and nothing extra shall be paid for rewinding of pump.
8. Labour:

02 Nos. – R.O. cum Pump Operator

Staff

The contractor has to depute the minimum staff for maintenance and upkeepment of RO water system as per BOQ Details.

9. Recovery shall be made from the bill contractor bill if the deputed staff is found absent from duty:
 - a) Fitter / Operator / Wireman @ 2016/-
10. The staff deployed by the contractor shall wear uniform, Navy blue trouser, light blue shirt, grey sweater/Jacket with CPWD and contractor name in 75 mm fonts in English/Hindi on back of shirt/sweater/jacket and name and designation badge on front side of shirt, failing which recovery @ Rs. 100/- per person per day shall be affected from the bill.

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**TERMS & CONDITIONS FOR OPERATION AND MAINTENANCE OF WATER
COOLER AND RO SYSTEM**

- 1 Work shall be carried out as per C.P.W.D Specifications & as per direction of Engineer-in-charge.
- 2 No T&P shall be issued to the Agency.
- 3 Any damage to the Unit & the building shall be made good by the Agency at his own cost otherwise necessary recovery shall be made decession of Engr-in-Charge shall be full & final in this regard.
- 4 Rates shall be inclusive of GST & nothing extra shall be paid on this account.
- 5 Routine Maintenance of RO / UF system, UV plant, Commercial Filtration plant as decided by Engineer-in-Charge. All complaint received shall be attended on the same day otherwise recovery @ Rs. 1500/- per complaint per day of delay shall be made from the contractor.
- 6 Filter of all the units shall be cleaned on monthly basis or when found dirty which ever is earlier failing which recovery @ Rs.1500/- per unit per day for not cleaning of filter shall be made from the agency.
- 7 Agency has to ensure that all the units shall be in good working condition during the period. If cleaning of coils of any unit is required during the season same shall be done by the agency under scope of routine maintenance and nothing extra shall be paid on this account. However, reservicing during the season not included in scope of routine maintenance.
- 8 Workmen of the Agency shall take the complaints from the AC Workshop and shall report back the work done in the units. Record of complaints & preventive maintenance shall be maintained and same shall be produce to the departmental officer for checking as and when required.
- 9 The number of the units to be maintained intimated in Item of work are indicative and so same may vary in the numbers as per actual requirement at site for which nothing extra shall be paid on this account.
- 10 Replacement of worn-out compressors, new blower / cooling fan motor, Thermostate, Refrigerant timer, Refrigerator overload relay, Membrane, RO pump, Micron filter, Anti Scalent chemical, float valve, PTMT push cock, PTMT stop cock, condenser fan motor, gas charging of refrigerant, painting work, cleaning of drip trays and other new work not directly associated with the routine maintenance are also included in scope of routine maintenance.
- 11 Workmen of the Agency shall bear good moral character at site. Agency shall submit the list of staff deployed at site and issue suitable identity card to their staff. If any of the staff found misconducting at site, same shall be removed from site and suitable substitute shall be arranged.
- 12 Since the work involve inherent professional hazard, so contractor has to deploy experienced staff and take all safety precautions during execution of work. Any type of loss i/c human life at site shall be the responsibility of the contractor. Department shall not entertain any claim in this regard and if any claim arises same shall be born by the Contractor.
- 13 Workmen shall be purely on the roll of the Contractor and shall pay fair minimum wages to their workmen. Department shall not entertain any claim in this regard from workmen side what so ever and if any claim arises same shall be born by the Contractor.
- 14 Work shall be started with complete staff from the date as decided by the Engr-in-Charge failing which recovery @ Rs.2500/- per day shall be made from the contractor.
- 15 The contractor shall submit the proof of new material (Bill / voucher / challan) and submit the dismantle material to JE (E) store with a proof of client on complaint register. The contractor can take out his buy back dismantle material from JE (E) through proper gate pass.

- 16 All material to be used on this work by the contractor shall be got approved from the Engineer-in-Charge before installation at site.
- 17 The contractor shall maintain a complaint register and attendance register at its own cost. It will be the responsibility of the contractor to record the complaint & maintain the register without any extra cost. The contractor shall submit the attendance register at time of submission of bill.
- 18 For carrying out the maintenance work, following staff will be deputed by the contractor who will report to the enquiry office. Their attendance will be recorded on Aadhar based biometric system.

Sub Head VIII- Item No. 1					
Shift	9 AM to 5.00 PM	6 AM to 2 PM	2 PM to 10 PM	10 PM to 6 AM	Total
Skilled	-	1	1	-	02

- 19 The minimum qualification of staff is as below:
a) RO Operator – (Having ITI in RAC / Electrical or equivalent & 5 years experience in RO)
- 21 The contractor shall submit the all documents related to his staff like identity card with photo, qualification & experience etc.
- 22 In the event of contractor fails to maintain suitable arrangement of any staff being absent, the recovery will be made at the following rates:
Operator @ Rs. 2016/- per day.
- 23 The staff shall be deputed as per direction of Engineer-in-charge.
- 24 The contractor shall have to pay to their worker according Minimum Wages as per **Delhi Govt. Labour Act / Central Government which ever is higher** through ECS or by Cheque and aquitance roll shall be submit at the time of bill as a proof of payment. If the contractor failed to pay the salary to his worker in time, he himself shall be held responsible for the same and without prior notice to him the contract shall be rejected without assigning any reason
- 25 The firm must have ESIC and EPF registration Nos. i/c deputed staff at site and submitted within 15 days after award of work.
- 26 No running bill will be paid to the contractor unless he produces the proof of paid receipt of ESI / EPF contribution and other document as required in Agreement to the concerned authority.
- 27 The firm / contractor will be provided the 30% material at site in advance before start the work, otherwise the penalty @ Rs. 2500/- per day shall be recovered from the contractor.

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Annexure – B

SI No	Staff	Qualifications
1	Skilled Staff (Sub Head II :- Sub Station, DG Set)	Should have passed ITI diploma in electrician trade with 3 years experience.
2	Skilled Staff (Sub Head I:- Operation and Maintenance of EI & Fan)	Should have passed ITI diploma or possessed electrical workman's lineman licenses (Certificate of competency) with at least 3 years experience in the line.
3	Skilled Staff (SH III:- Lift)	Should have 12 th passed Should have at least 3 years experience in rescuing of a person entrapped in the lift car.
4	Skilled Staff (Sub Head IV:- Fire Alarm system & Fire Fighting system)	Should have passed ITI / diploma in electrician trade with 3 years experience. OR Fire Diploma certificate with 3 years experience.
5	Skilled Staff (Sub Head-V:- RMO Parking Manually & EV Charing)	Should have passed ITI diploma in electrician trade with 3 years experience.
6	Skilled Staff (Sub Head VI:- RMO CCTV & EPABX System)	Should have passed ITI diploma in electrician trade with 3 years experience.
7	Khallasi (Unskilled)	Should have 8 th passed Should be physically fit for work.

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Ground Floor

BOQ Item	DESCRIPTION OF POINT	1		1.2	1.3		1.4			1.5	1.7	1.8	1.12	2	3	4.1,4.2	4.3	6	7	9	14	14.2	14.3	14.4	14.5	Extra								
S.No.	Area/Room/description	VRV Outdoor	VRV HI Wall Indoor (1.5HP)	VRV HI Wall Indoor (2HP)	VRV CassetteIndoor (5 HP)	VRV Hideway Duct Indoor (1.5 HP)	VRV Hideway Duct Indoor (8 HP)	VRV Hideway Duct Indoor (10 HP)	VRV Hideway Duct Indoor (2 HP)	VRV Indoor High Static Duct Type	Indoor Remote	Central Controller	Thermostate	Air Washer Unit (5200 CFM)	Scrubber (6000CFM)	Ventilation Fans Tube Axial (6600CFM)	Ventilation Fans Centrifugal	Fire Damper	Volume Control Dampers	Grilles	Air Conditioning Panel	Distribution Panel	Starter paenl 2/3 HP	Starter paenl 5/7.5 HP	Starter paenl 10 HP	Fan Toilet Exhaust with Grill (70CFM)	Inline Fan (800CFM)	Inline Fan (900CFM)	Inline Fan (600CFM)	Inline Fan (100CFM)	Inline Fan (650CFM)	Inline Fan (450CFM)	Inline Fan (300CFM)	Toilet Ventilation Fans Centrifugal
1	Ground floor				12		4		1		17			1	1	3		1	4	57					6		2		2	2	2			
2	1st floor																																	
3	A-Wing			1		14		4			19		15						4	34						15		1				1	1	
4	B-Wing																																	
5	C-Wing			1		14					15		14								28					14								
6	2nd floor																																	
7	A-Wing					14					14		14								30					14								
8	B-Wing		8			10					18		10								22					18								
9	C-Wing					14					14		14								28					14								
10	3rd floor																																	
11	A-Wing					14					14		14								30					14								
12	B-Wing		8			10					18		10								22					18								
13	C-Wing					14					14		14								28					14								
14	4th floor																																	
15	A-Wing					14					14		14								30					14								
16	B-Wing		8			10					18		10								22					18								
17	C-Wing					14					14		14								28					14								
18	5th floor																																	
19	A-Wing					14					14		14								30					14								
20	B-Wing		8			10					18		10								22					18								
21	C-Wing					14					14		14								28					14								
22	6th floor																																	
23	A-Wing					14					14		14								30					14								
24	B-Wing		8			10					18		10								22					18								
25	C-Wing					14					14		14								28					14								
26	7th floor																																	
27	A-Wing					14					14		14								30					14								
28	B-Wing		8			10					18		10								22					18								
29	C-Wing					14					14		14								28					14								

Inventory- VRRV

Name of work: Const. of Hostel Block, for Resident Doctors, RML Hospital, New Delhi.

Ground Floor

BOQ Item	DESCRIPTION OF POINT	1		1.2	1.3		1.4			1.5	1.7	1.8	1.12	2	3	4.1,4.2	4.3	6	7	9	14	14.2	14.3	14.4	14.5	Extra									
S.No.	Area/Room/description	VRV Outdoor	VRV HI Wall Indoor (1.5HP)	VRV HI Wall Indoor (2HP)	VRV CassetteIndoor (5 HP)	VRV Hideway Duct Indoor (1.5 HP)	VRV Hideway Duct Indoor (8 HP)	VRV Hideway Duct Indoor (10 HP)	VRV Hideway Duct Indoor (2 HP)	VRV Indoor High Static Duct Type	Indoor Remote	Central Controller	Thermostate	Air Washer Unit (5200 CFMD)	Scrubber (6000CFM)	Ventilation Fans Tube Axial (6600CFM)	Ventilation Fans Centrifugal	Fire Damper	Volume Control Dampers	Grilles	Air Conditioning Panel	Distribution Panel	Starter paenl 2/3 HP	Starter paenl 5/7.5 HP	Starter paenl 10 HP	Fan Toilet Exhaust with Grill (70CFM)	Inline Fan (800CFM)	Inline Fan (900CFM)	Inline Fan (600CFM)	Inline Fan (100CFM)	Inline Fan (650CFM)	Inline Fan (450CFM)	Inline Fan (300CFM)	Toilet Ventilation Fans Centrifugal	
30	8th floor																																		
31	A-Wing					14					14		14							30						14									
32	B-Wing		8			10					18		10							22						18									
33	C-Wing					14					14		14							28						14									
34	9th floor																																		
35	A-Wing					14					14		14							30						14									
36	B-Wing		8			10					18		10							22						18									
37	C-Wing					14					14		14							28						14									
38	10th floor																																		
39	A-Wing					14					14		14							30						14									
40	B-Wing		8			10					18		10							22						18									
41	C-Wing					14					14		14							28						14									
42	11th floor																																		
43	A-Wing					14					14		14							30						14									
44	B-Wing		8			10					18		10							22						20									
45	C-Wing					14					14		14							28						14									
46	12th floor																																		
47	A-Wing					14					14		14							30						14									
48	B-Wing					18					18		18							38						18									
49	C-Wing					14					14		14							28						14									
50	13th floor																																		
51	A-Wing					14					14		14							30						14									
52	B-Wing					18					18		18							38						18									
53	C-Wing					14					14		14							28						14									
54	14th floor																																		
55	A-Wing					14					14		14							30						14									
56	B-Wing					18					18		18							38						18									
57	C-Wing					14					14		14							28						14									
58	15th floor																																		

Inventory- VRV

Name of work: Const. of Hostel Block, for Resident Doctors, RML Hospital, New Delhi.

Ground Floor

BOQ Item	DESCRIPTION OF POINT	1		1.2	1.3		1.4			1.5	1.7	1.8	1.12	2	3	4.1,4.2	4.3	6	7	9	14	14.2	14.3	14.4	14.5	Extra								
S.No.	Area/Room/description	VRV Outdoor	VRV HI Wall Indoor (1.5HP)	VRV HI Wall Indoor (2HP)	VRV CassetteIndoor (5 HP)	VRV Hideway Duct Indoor (1.5 HP)	VRV Hideway Duct Indoor (8 HP)	VRV Hideway Duct Indoor (10 HP)	VRV Hideway Duct Indoor (2 HP)	VRV Indoor High Static Duct Type	Indoor Remote	Central Controller	Thermostate	Air Washer Unit (5200 CFM)	Scrubber (6000CFM)	Ventilation Fans Tube Axial (6600CFM)	Ventilation Fans Centrifugal	Fire Damper	Volume Control Dampers	Grilles	Air Conditioning Panel	Distribution Panel	Starter paenl 2/3 HP	Starter paenl 5/7.5 HP	Starter paenl 10 HP	Fan Toilet Exhaust with Grill (70CFM)	Inline Fan (800CFM)	Inline Fan (900CFM)	Inline Fan (600CFM)	Inline Fan (100CFM)	Inline Fan (650CFM)	Inline Fan (450CFM)	Inline Fan (300CFM)	Toilet Ventilation Fans Centrifugal
59	A-Wing					14					14		14							30						14								
60	B-Wing					18					18		18							38						18								
61	C-Wing					14					14		14							28						14								
62	16th floor																																	
63	A-Wing					14					14		14							30						14								
64	B-Wing					18					18		18							38						18								
65	C-Wing					14					14		14							28						14								
66	17th floor																																	
67	A-Wing					14					14		14							30						14								
68	B-Wing					18					18		18							38						18								
69	C-Wing					14					14		14							28						14								
70	18th floor																																	
71	A-Wing					14					14		14							30						14								
72	B-Wing					18					18		18							38						18								
73	C-Wing					14					14		14							28						14								
74	19th floor																																	
75	A-Wing					14					14		14							30						14								
76	B-Wing					18					18		18							38						18								
77	C-Wing					14					14		14							28						14								
78	20th floor																																	
79	A-Wing					14					14		14							30						14								
80	B-Wing					18					18		18							38						18								
81	C-Wing					14					14		14							28						14								
	Total	0	80	2	12	822	4	4	1	0	925	0	823	1	1	3	0	1	8	1783	0	0	0	0	6	905	2	1	2	2	2	1	1	0

Inventory- Sanitary Fixtures**Name of work: Const. of Hostel Block, for Resident Doctors, RML Hospital, New Delhi.**

S.No.	Fixtures	Unit	Water Heater (Gyser) 25 Ltr	Water Storage Cooler	R.O. Plant 25 Ltr
1	Ground Floor				
2	A-Wing	Nos	3	1	1
3	B-Wing	Nos	1	1	1
4	C-Wing	Nos		1	1
5	1st Floor	Nos			
6	A-Wing	Nos	14		
7	B-Wing	Nos	2	2	2
8	C-Wing	Nos	14		
9	2nd Floor	Nos			
10	A-Wing	Nos	14	1	1
11	B-Wing	Nos	10		
12	C-Wing	Nos	14	1	1
13	3rd Floor	Nos			
14	A-Wing	Nos	14	1	1
15	B-Wing	Nos	10		
16	C-Wing	Nos	14	1	1
17	4th Floor	Nos			
18	A-Wing	Nos	14	1	1
19	B-Wing	Nos	10		
20	C-Wing	Nos	14	1	1
21	5th Floor	Nos			
22	A-Wing	Nos	14	1	1
23	B-Wing	Nos	10		
24	C-Wing	Nos	14	1	1
25	6th Floor	Nos			
26	A-Wing	Nos	14	1	1
27	B-Wing	Nos	10		
28	C-Wing	Nos	14	1	1
29	7th Floor	Nos			
30	A-Wing	Nos	14	1	1
31	B-Wing	Nos	10		
32	C-Wing	Nos	14	1	1
33	8th Floor	Nos			
34	A-Wing	Nos	14	1	1
35	B-Wing	Nos	10		
36	C-Wing	Nos	14	1	1
37	9th Floor	Nos			
38	A-Wing	Nos	14	1	1

Inventory- Sanitary Fixtures
Name of work: Const. of Hostel Block, for Resident Doctors, RML Hospital, New Delhi.

S.No.	Fixtures	Unit	Water Heater (Gyser) 25 Ltr	Water Storage Cooler	R.O. Plant 25 Ltr
39	B-Wing	Nos	10		
40	C-Wing	Nos	14	1	1
41	10th Floor	Nos			
42	A-Wing	Nos	14	1	1
43	B-Wing	Nos	10		
44	C-Wing	Nos	14	1	1
45	11th Floor	Nos			
46	A-Wing	Nos	14	1	1
47	B-Wing	Nos	10		
48	C-Wing	Nos	14	1	1
49	12th Floor	Nos			
50	A-Wing	Nos	14	1	1
51	B-Wing	Nos	18		
52	C-Wing	Nos	14	1	1
53	13th Floor	Nos			
54	A-Wing	Nos	14	1	1
55	B-Wing	Nos	18		
56	C-Wing	Nos	14	1	1
57	14th Floor	Nos			
58	A-Wing	Nos	14	1	1
59	B-Wing	Nos	18		
60	C-Wing	Nos	14	1	1
61	15th Floor	Nos			
62	A-Wing	Nos	14	1	1
63	B-Wing	Nos	18		
64	C-Wing	Nos	14	1	1
65	16th Floor	Nos			
66	A-Wing	Nos	14	1	1
67	B-Wing	Nos	18		
68	C-Wing	Nos	14	1	1
69	17th Floor	Nos			
70	A-Wing	Nos	14	1	1
71	B-Wing	Nos	18		
72	C-Wing	Nos	14	1	1
73	18th Floor	Nos			
74	A-Wing	Nos	14	1	1
75	B-Wing	Nos	18		
76	C-Wing	Nos	14	1	1

Inventory- Sanitary Fixtures
Name of work: Const. of Hostel Block, for Resident Doctors, RML Hospital, New Delhi.

S.No.	Fixtures	Unit	Water Heater (Gyser) 25 Ltr	Water Storage Cooler	R.O. Plant 25 Ltr
77	19th Floor	Nos			
78	A-Wing	Nos	14	1	1
79	B-Wing	Nos	18		
80	C-Wing	Nos	14	1	1
81	20th Floor	Nos			
82	A-Wing	Nos	14	1	1
83	B-Wing	Nos	18		
84	C-Wing	Nos	14	1	1
	Total		828	43	43

Inventory- Equipment FAS, PA work
Name of work: Const. of Hostel Block, for Resident Doctors, RML Hospital, New Delhi.

BQ Item	DESCRIPTION OF POINT	Ground Floor																	
		11.05	11.11	11.06	11.05	11.07	11.12	11.11	11.09	11.10	11.01	11.02	11.16	11.17	11.15	11.01	11.10	11.07	11.09
S.No.	Locations	Smoke detector	Repeater Indicator	Heat detector	Ceiling Speaker	Wall mounted speaker	MCP	Hoster	Control module	Monitor Module	FACP	Repeater Panel	Telephone Jack	Telephone Handset	Talk Back	Door Camera	Door Camera indoor	6U Rack	16 Port Switch
1	Ground Floor																		
2	A-wing	21	8	1	4		2	2	2	3			1	1		4	4		1
3	B-wing	33	13	3	8		1	1	1	1	4	1			1	3	1	1	1
4	C-wing	20	9	1	6		2	2	2	3						4	3		
5	1st Floor																		
6	A-wing	28	14	2	5		2	2		3			1	1					
7	B-wing	29	14		9														
8	C-wing	28	14	2	5		2	2		3									
9	2nd Floor																		
10	A-wing	31	14	2	5		2	2	2	3			1	1					1
11	B-wing	28	10		2													8	8
12	C-wing	31	14	2	5		2	2	2	3									
13	3rd Floor																		
14	A-wing	31	14	2	5		2	2	2	3			1	1					1
15	B-wing	28	10		2													8	8
16	C-wing	31	14	2	5		2	2	2	3									
17	4th Floor																		
18	A-wing	31	14	2	5		2	2		3			1	1					1
19	B-wing	28	10		2													8	8
20	C-wing	31	14	2	5		2	2		3									
21	5th Floor																		
22	A-wing	31	14	2	5		2	2		3			1	1					1
23	B-wing	28	10		2													8	8
24	C-wing	31	14	2	5		2	2		3									
25	6th Floor																		
26	A-wing	31	14	2	5		2	2		3			1	1					1
27	B-wing	28	10		2													8	8
28	C-wing	31	14	2	5		2	2		3									
29	7th Floor																		
30	A-wing	31	14	2	5		2	2		3			1	1					1
31	B-wing	28	10		2													8	8
32	C-wing	31	14	2	5		2	2		3									
33	8th Floor																		
34	A-wing	31	14	2	5		2	2		3			1	1					1
35	B-wing	28	10		2													8	8
36	C-wing	31	14	2	5		2	2		3									
37	9th Floor																		
38	A-wing	31	14	2	5		2	2		3			1	1					1
39	B-wing	28	10		2													8	8
40	C-wing	31	14	2	5		2	2		3									
41	10th Floor																		
42	A-wing	31	14	2	5		2	2		3			1	1					1
43	B-wing	28	10		2													8	8
44	C-wing	31	14	2	5		2	2		3									
45	11th Floor																		
46	A-wing	31	14	2	5		2	2		3			1	1					1
47	B-wing	28	10		2													8	8
48	C-wing	31	14	2	5		2	2		3									
49	12th Floor																		
50	A-wing	31	14	2	5		2	2		3			1	1					1
51	B-wing	28	10		2														
52	C-wing	31	14	2	5		2	2		3									
53	13th Floor																		
54	A-wing	31	14	2	5		2	2		3			1	1					
55	B-wing	28	10		2														
56	C-wing	31	14	2	5		2	2		3									
57	14th Floor																		
58	A-wing	31	14	2	5		2	2		3			1	1					
59	B-wing	28	10		2														
60	C-wing	31	14	2	5		2	2		3									
61	15th Floor																		

Inventory- Equipment FAS, PA work
Name of work: Const. of Hostel Block, for Resident Doctors, RML Hospital, New Delhi.

BQ Item	DESCRIPTION OF POINT	Ground Floor																	
		11.05	11.11	11.06	11.05	11.07	11.12	11.11	11.09	11.10	11.01	11.02	11.16	11.17	11.15	11.01	11.10	11.07	11.09
S.No.	Locations	Smoke detector	Repeater Indicator	Heat detector	Ceiling Speaker	Wall mounted speaker	MCP	Hoster	Control module	Monitor Module	FACP	Repeater Panel	Telephone Jack	Telephone Handset	Talk Back	Door Camera	Door Camera indoor	6U Rack	16 Port Switch
62	A-wing	31	14	2	5		2	2		3			1	1					
63	B-wing	28	10		2														
64	C-wing	31	14	2	5		2	2		3									
65	16th Floor																		
66	A-wing	31	14	2	5		2	2		3			1	1					
67	B-wing	28	10		2														
68	C-wing	31	14	2	5		2	2		3									
69	17th Floor																		
70	A-wing	31	14	2	5		2	2		3			1	1					
71	B-wing	28	10		2														
72	C-wing	31	14	2	5		2	2		3									
73	18th Floor																		
74	A-wing	31	14	2	5		2	2		3			1	1					
75	B-wing	28	10		2														
76	C-wing	31	14	2	5		2	2		3									
77	19th Floor																		
78	A-wing	31	14	2	5		2	2		3			1	1					
79	B-wing	28	10		2														
80	C-wing	31	14	2	5		2	2		3									
81	20th Floor																		
82	A-wing	31	14	2	5		2	2		3			1	1					
83	B-wing	28	10		2														
84	C-wing	31	14	2	5		2	2		3									
	Total	1869	794	87	263	0	85	85	13	127	4	1	21	21	1	11	7	1	1
																		82	82
																			0
																			11

Addition : NIL

Overwriting : NIL

Deletion : NIL

AE (E)-(P)

AE(C)-(P)

Inventory- Capital Equipment Electrical work
Name of work: Const. of Hostel Block, for Resident Doctors, RML Hospital, New Delhi.

		Ground Floor																		
BOQ Item	DESCRIPTION OF POINT	8.04		8.06	11.02	10.03	8.05		9.02(D)	9.02(V)			9.02 (D)	9.02 (V(D)	9.02 (V)	60x60 LED Recessed Flush light	9.02 (V)	8 Way Power DB	6 Way Lighting DB	12 Way Double Door
S.No.	Locations	5/6A Switch & Socket	5/6A Switch	5/6A Switch & Socket data	Data Jack	Telephone Jack	15/16A Switch & Socket	TV Outlet Connection	Ceiling Fan	1x10W LED Recessed flush down	1x10W LED Tube Light	Mirror Light	Wall Bracket Light Lamp	1x15W LED Surface mounted						
	Ground Floor																			
1	A wing	10	36				16		2	18	1	2			44		2	2	1	
2	B Wing	8	38				19		2	7	10	6			40					
3	C-Wing	3	11				6			2	1			11	34		2	2	1	
4	1st Floor																			
5	A wing	81		14	14		44		14	28	15	14	14	14	15		2	2	1	
6	B Wing	43		6	2		23		2	16	5	2	2	2	45					
7	C-Wing	87		14	14		44		16	28	14	14	14	14	19		2	2	1	
8	2nd Floor																			
9	A wing																			
10	B Wing	45		5	5	4	40	4	9	10	9	5	17	9	19				4	
11	C-Wing	70		15	14		46		14	29	15	14	14	16	15		2	2	1	
12	3rd Floor																			
13	A wing	70		15	14		46		28	28	15	14	14	11	15		2			
14	B Wing	90		10	10	8	79	8	20	20	18	10	33	18	19				8	
15	C-Wing	70		15	14		46		28	29	14	14	14	15	15		2	2	1	
16	4th Floor																			
17	A wing	70		15	14		46		14	28	15	14	14	16	15		2	2	1	
18	B Wing	90		10	10	8	79	8	18	20	18	10	34	18	19				2	
19	C-Wing	70		15	14		46		14	28	15	14	14	17	15		2	2	1	
20	5th Floor																			
21	A wing	70		15	14		46		14	28	15	14	14	15	15		2	2	1	
22	B Wing	90		10	10	8	79	8	18	20	18	10	34	18	19				8	
23	C-Wing	70		15	14		46		14	29	15	14	14	16	15		2	2	1	
24	6th Floor																			
25	A wing	70		15	14		46		15	28	15	14	14	16	15		2	2	1	
26	B Wing	90		10	10	8	79	8	18	20	18	10	34	18	19				8	
27	C-Wing	70		15	14		46		14	29	14	14	14	16	15		2	2	1	
28	7th Floor																			
29	A wing	70		15	14		46		14	28	15	14	14	16	15		2	2	1	
30	B Wing	90		10	10	8	79	8	18	20	18	10	34	16	19				8	
31	C-Wing	70		14	14		46		14	28	15	14	14	15	15		2	2	1	
32	8th Floor																			
33	A wing	70		15	14		46		14	28	15	14	14	15	15		2	2	1	
34	B Wing	90		10	10	8	79	8	18	20	18	10	34	18	19				8	
35	C-Wing	70		15	14		46		14	29	15	14	14	16	15		2	2	1	
36	9th Floor																			
37	A wing	70		15	14		46		14	28	14	14	14	16	15		2	2	1	
38	B Wing	90		10	10	8	46	8	18	20	18	10	34	18	19				8	
39	C-Wing	70		15	14		46		14	29	15	14	14	16	15		2	2	1	
40	10th Floor																			
41	A wing	70		15	14		46		14	28	15	14	14	16	15		2	2	1	
42	B Wing	90		10	10	8	46		18	20	18	10	34	18	19				8	
43	C-Wing	70		15	14		46		14	29	15	14	14	16	15		2	2	1	
44	11th Floor																			
45	A wing	70		15	14		46		14	28	15	14	14	16	15		2	2	1	
46	B Wing	90		10	10	8	79	8	18	20	18	10	34	18	19				8	
47	C-Wing	70		15	14		46		14	29	15	14	14	16	15		2	2	1	
48	12th Floor																			
49	A wing																			
50	B Wing																			
51	C-Wing																			
52	13th Floor																			
53	A wing	70		15	14		46		14	28	15	14	14	16	15		2	2	1	
54	B Wing	90		18	18		55		18	32	18	18	18	20	19					
55	C-Wing	70		15	14		46		14	29	15	14	14	16	15		2	2	1	
56	14th Floor																			
57	A wing	70		15	14		46		14	28	15	14	14	16	15		2	2	1	
58	B Wing	90		18	18		55		18	36	18	18	18	19	19					
59	C-Wing	70		15	14		46		14	29	15	14	14	16	15		2	2	1	
60	15th Floor																			
61	A wing	70		15	14		46		14	28	15	14	14	16	15		2	2	1	
62	B Wing	90		18	18		55		18	36	18	18	18	19	19					
63	C-Wing	70		15	14		46		14	29	15	14	14	16	15		2	2	1	
64	16th Floor																			
65	A wing	70		15	14		46		14	28	15	14	14	16	15		2	2	1	
66	B Wing	90		18	18		55		18	36	18	18	18	19	19					
67	C-Wing	70		15	14		46		14	29	15	14	14	16	15		2	2	1	
68	17th Floor																			
69	A wing	70		15	14		46		14	28	15	14	14	16	15		2	2	1	
70	B Wing	90		18	18		55		18	36	18	18	18	19	19					
71	C-Wing	70		15	14		46		14	29	15	14	14	16	15		2	2	1	
68	18th Floor																			
69	A wing	70		15	14		46		14	28	15	14	14	16	15		2	2	1	
70	B Wing	90		18	18		55		18	36	18	18	18	19	19					
71	C-Wing	70		15	14		46		14	29	15	14	14	16	15		2	2	1	
68	19th Floor																			
69	A wing	70		15	14		46		14	28	15	14	14	16	15		2	2	1	
70	B Wing	90		18	18		55		18	36	18	18	18	19	19					
71	C-Wing	70		15	14		46		14	29	15	14	14	16	15		2	2	1	
68	20th Floor																			
69	A wing	70		15	14		46		14	28	15	14	14	16	15		2	2	1	
70	B Wing	90		18	18		55		18	36	18	18	18	19	19					
71	C-Wing	70		15	14		46		14	29	15	14	14	16	15		2	2	1	
	Total	4257	85	797	759	76	2887	68	872	1569	883	767	986	915	1064	0	78	76	108	

Addition : NIL

Overwriting : NIL

Deletion : NIL

AE (E)-(P)

AE(C)-(P)

Inventory- Control Room
Name of work: Const. of Hostel Block, for Resident Doctors, RML Hospital, New Delhi.
Ground Floor

BOQ Item	DESCRIPTION OF POINT	15	15	15.1	15.1	14	14	14	10.1	10.1	15.1	13	13	13.2		
S.No.	Locations	NVR (Set)	HP PC	CCTV Switch 24 Port	32 LED Monitor	Power Amplifier	P.A Controller	Gooseack Microphone	EPBAX Switch 24 Port	EPABX	EPDAX Handset	Krone Box	42 U Rack	FAS Panel	Repeater Panel	Talk Back Panel
1	Control Room	1	1	1	2	2	1	1	1	1	1	1	1	2	1	1

Inventory- Equipment AHU work
Name of work: Const. of Hostel Block, for Resident Doctors, RML Hospital, New Delhi.
Academic block

S.No.	Locations	AHU No.	Motor HP/Puli	CFM	Belt No	Motor Company
2	Ground Floor	7	10 HP/3Puli			
3	1st Floor	12	10 HP/3Puli			
4	2st Floor	13	10 HP/3Puli			
5	3st Floor	19	7.5 HP/2Puli			
6	4st Floor	07	10 HP/3Puli			
7	5st Floor	26	7.5 HP/3Puli			
9	2nd Floor					
10	A-wing	31	14	2	5	
11	B-wing	28	10		2	
12	C-wing	31	14	2	5	
13	3rd Floor					
14	A-wing	31	14	2	5	
15	B-wing	28	10	2		
16	C-wing	31	14	2	5	
17	4th Floor					
18	A-wing	31	14	2	5	
19	B-wing	28	10		2	
20	C-wing	31	14	2	5	
21	5th Floor					
22	A-wing	31	14	2	5	
23	B-wing	28	10		2	
24	C-wing	31	14	2	5	
25	6th Floor					
26	A-wing	31	14	2	5	
27	B-wing	28	10		2	
28	C-wing	31	14	2	5	
29	7th Floor					
30	A-wing	31	14	2	5	
31	B-wing	28	10		2	
32	C-wing	31	14	2	5	
33	8th Floor					
34	A-wing	31	14	2	5	
35	B-wing	28	10		2	
36	C-wing	31	14	2	5	
37	9th Floor					
38	A-wing	31	14	2	5	
39	B-wing	28	10		2	
40	C-wing	31	14	2	5	
41	10th Floor					

Inventory- Equipment AHU work**Name of work: Const. of Hostel Block, for Resident Doctors, RML Hospital, New Delhi.****Academic block**

S.No.	Locations	AHU No.	Motor HP/Pull	CFM	Belt No	Motor Company
42	A-wing	31	14	2	5	
43	B-wing	28	10		2	
44	C-wing	31	14	2	5	
45	11th Floor					
46	A-wing	31	14	2	5	
47	B-wing	28	10		2	
48	C-wing	31	14	2	5	
49	12th Floor					
50	A-wing	31	14	2	5	
51	B-wing	28	10		2	
52	C-wing	31	14	2	5	
53	13th Floor					
54	A-wing	31	14	2	5	
55	B-wing	28	10		2	
56	C-wing	31	14	2	5	
57	14th Floor					
58	A-wing	31	14	2	5	
59	B-wing	28	10		2	
60	C-wing	31	14	2	5	
61	15th Floor					
62	A-wing	31	14	2	5	
63	B-wing	28	10		2	
64	C-wing	31	14	2	5	
65	16th Floor					
66	A-wing	31	14	2	5	
67	B-wing	28	10		2	
68	C-wing	31	14	2	5	
69	17th Floor					
70	A-wing	31	14	2	5	
71	B-wing	28	10		2	
72	C-wing	31	14	2	5	
73	18th Floor					
74	A-wing	31	14	2	5	
75	B-wing	28	10		2	
76	C-wing	31	14	2	5	
77	19th Floor					
78	A-wing	31	14	2	5	
79	B-wing	28	10		2	
80	C-wing	31	14	2	5	

Inventory- Equipment AHU work

Name of work: Const. of Hostel Block, for Resident Doctors, RML Hospital, New Delhi.

Academic block

S.No.	Locations	AHU No.	Motor HP/Puli	CFM	Belt No	Motor Company
81	20th Floor					
82	A-wing	31	14	2	5	
83	B-wing	28	10		2	
84	C-wing	31	14	2	5	
	Total	1787	722	78	226	0

Inventory (Sub-Station equipments)																				
S.No.	Locations	ACB, FP				MCCB, FP								MCCB, TP		MCB, DB				MCB
		3200A	1600A	1000A	800A	630A 50KA	400A 50KA	250A 50KA	160A 50KA	160A 35KA	100A 35KA	100A 50KA	500A 50KA	200A 50KA	100A 50KA	4 Way (8+12)	6 Way (8+12)	8 Way (8+12)	12 Way (8+12)	
1	Main Panel Incomer	4	7	3	3	2	2	2	4	-	-	-	-	-	-	24	75	75	164	5400
2	Emergency	-	-	4	4	3	1	5	2	-	-	-	2	-	-	-	-	-	-	-
3	Capacitor	-	2	-	-	-	-	-	-	-	-	-	-	8	16	-	-	-	-	-
4	Rising Main	-	2	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Tap off	-	-	-	-	-	-	-	-	48	67	-	-	-	-	164	54	-	-	-
6	MU Panel Emergency	-	-	-	-	-	-	-	-	48	72	-	-	-	-	-	-	-	-	-
7	Lift	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
8	Ventilation	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total	4	11	7	10	5	4	9	6	96	139	0	2	8	16	188	129	75	164	5400
		32				261								24		556				5400

LIST OF PREFERRED MAKE OF ELECTRICAL MATERIALS/ FITTINGS

EI & FANS

S.No.	Items	MAKE
1.	PVC conduit with ISI Marked	PRECISON/MODI/AKG/FINOLEX/MK/ Polycab/ Rallison
2.	M.S Conduit Pipe (ISIMarked)– Junction Box, Bend, Coupler	AKG/BEG/Polycab/SETIA/Finolex/RM-Con / Rallison /Steel Craft Note : All MS conduit pipe accessories shall confirm & complying with IS / 4768 part 2 2003.
3.	Steel Conduit with ISI Marked	AKG/BEC/MK/NIC
4.	PVC Insulated FRLS Copper Wire/ Telephone Cable/ TV Cable (ISIMark)	Havells / Polycab / Finolex / KEI / RR Kabel / Lapp Kabel/ Batra Henlay/ RHINO/ Paramount / Rallison / Pi Square/ Plaza Cable/ Bonton.
5.	FRLS P VC Insulated single core copper conductor cable/ XLPE Power Aluminum. Copper conductor Armoured/ unarmored Cable's	Havells / Polycab / Finolex / KEI / RR Kabel / LappKabel/ Batra Henlay /RHINO/ Paramount / Pi Square/ Plaza Cable / Grandlay Cables / Rallison/Bonton.
6.	XLPE Insulated, PVC Sheathed, Armoured/ Unarmoured 1.1 Kv Grade LT Cable/ Control Cable ISI Mark	Legrand / Havells/ Polycab/ Finolex/ KEI/ RR Kabel/ Lapp Kabel / Batra Henlay / Pi Square /Plaza Cable / Grandlay Cables / Rallison/Bonton.
7.	Telephone Cable	Denton/ Finolex/ Havells/ Polycab/ RRCable / Rallison
8.	Telephone Cable / Cat 6 LAN cable	Denton/ Finolex/ Havells/ Polycab/ RRCable/D-Link / Rallison
9.	Recess/Surface mounting LED 2x2 luminaire, Downlighter, LED Battan	Wipro/ Philips / Havells/ Lighting Technology/ Trilex / Orient / Regent
10.	Cable Gland	Jainson/ Braco /Comet /Gripwell
11.	Cable Lugs/ Thimble	Dowells/ Jainson/ Braco/ Comet
12.	DWC Pipes, HDPE Pipes i/c Accessories	Rex / Duraline/ Dutron
13.	Modular switch, Socket, Plates, GIbox, RJ11 socket, RJ45 socket and all other modular accessories, Foot light, Step type fan regulator, Shaver socket outlet point, card switch, Courtesy Panel, USB point, Blanking Plate/ Modular MCB DP	MK (Wraparound Plus) / Legrand (Myline) / Schneider(Opale)/ Anchor(Woods) / Crabtree (Athena) / North west (Stylish) / Roma Plus (Wood) / Crabtree (Athena).
14.	Junction Boxes, Accessories of MS Conduit	Legrand /Cost iron with threaded sockets.
15.	PianoType Switch Socket/ Regulator	Anchor/ Antax/ Cona
16.	MCB DB, MCCB'S(ICS=100%ICU), Isolators, Industrial Socket, etc i/c accessories	Legrand/ Hager/Siemens/ Schneider/ ABB / L & T / HPL

17.	Ceiling Fans/ Wall Fans/ Sweep Exhaust Fans/ Fresh Air	Usha/ Crompton/ Havells / Orient/ Khaitan
18.	Gyser	Record/ Crompton/ Havells / V-Guard/Usha
19.	Insect Killer	Avro /Mitashi/Mitzvab/Cohe/Euronics
20.	BLDC Ceiling Fan/ Exhaust fan/ Wall fan/fresh air fan	Crompton/ Havells/ Orient/ Usha/Atomberg
21.	10–12-watt LED type Down Lighter/ BulkHead	Philips / Wipro (Helix) / LT / Trilex/ Havells/ Crompton/ Regent / Hallonix /Syska
22.	30-36W Recess/Surface mounting LED 2x2 luminaire	Philips / Wipro (Helix) / LT / Trilex/ Havells/ Crompton / Regent / Hallonix/Syska
23.	LED tube Fitting 4' 18-20W poly carbonate housing	Jaquar, Glaze LED Batten (PC)/ Havells, Philips
24.	LED Street Light/ Flood Light/ Post Top Lantern	Philips /Wipro/ LT/ Trilex/ Havells/ Crompton/HPL/Bjaj/Havells/Jaquar
25.	LED Fitting	Philips/ Crompton/ Havells/ Wipro
26.	UPVC Integral cable management system	Legrand/ M.K./ Syemens
27.	Cable Trays (Factory Fabricated/ RACEWAYS:	Profab/ OBO/ Swift/ CTM Engg. / Indiana
28.	HDPE, DWC, Pipes, CPVC Pipe	REX / JAIN PIPES / DURALITE / Gemini / Tirupathi
29.	LT Panel / Meter panel board / Outdoor Feer Phillar / APFC Panels / Bus Dutcs	Tricolite Electrical Industries / Control & Switchgears Pvt. Ltd. / Sterling & Wilson / Milestone / Adlec Control System Pvt. Ltd. / Advance Panels & Switchgear Pvt. Ltd. / Indo Asian / Allied Engineers/ L&T / ABB / HPL / Siemens/ Schneider / Legrand / Precision System control /Associated switchgears & project LTd/ SPC Electrotech/Neptune Engineering Pvt. Ltd. / RP Control / Advance Power Controls Ltd. Noida
30.	Battery	Exide/quanta/Amaraja/Amron/ Panasonic/Eveready
31.	3 Pole Power Contactor/ Timer/ Under Voltage/ Over Voltage Relay/ Protective Relays/ DOL Starter/ Star Delta Starter	Legrand / L&T/ ABB/ Schneider/ Siemens/ ABB/ Schneider/ Siemens / HPL
32.	Timers	Legrand /L&T/ ABB/ Schneider/ Siemens
33.	Single Phase Preventer	L&T/ Minilac/ Technica
34.	Ammeter/Voltmeter (Digital)	Legrand / AE/ L&T/ Enersol/ Enercon/ Rishabh/ Neptune India/ Elmeasure/ HPL
35.	Selector Switches	L&T-Salzer/ Kaycee/ Siemens
36.	CTs	A.E. / Kappa/ C&S/ BCH/ L&T / HPL
37.	LED Indication Lamps & Push Buttons	BCH/ L&T/ Telemecanique/ Siemens/ C&S/ Rishabh
38.	Rubber Mat	Jyoti/ Padmani/ Premier
39.	Air Circuit Breaker	Legrand / L&T(U-Power) /ABBTMAX/ Schneider (Master Pact NW) / Siemens / HPL
40.	Enamel Paint	Berger/ Asian/ Dulux

PUMP WORK

1.	GI/ MS C-Class Pipe	Jindal(Hisar)/ Tata/ Prakash Surya
2.	Butterfly/ Balancing/ Ball valve/ NRV/ Sluice Valve/ GM Valve	Audco / Sant / Advance / Castle /Zoloto/ Kartar
3.	Self-priming centrifugal/ Monoblock type water pump set/ Gun Metal Valve	Crompton / Greaves / ABB /Kirloskar/ KDS/ WILO/ Grundfos
4.	Steel-Rope for submersible pump	Usha/ Martin or equivalent
5.	Pressure Switch	IndFos/ DanFos
6.	Pressure Gauge	H-Guru/ FieBig/ HD
7.	3 Phase Induction Motor/Pump set /Electric Motor IE- 3 rated	Kirloskar/ ABB/ Mather & Platt/ KSB
8.	PU Paints, Primer, thinner, hardener, putties	MRF Paints/ Asian paint
9.	Pipe Supporter	HITECH/ HILTI
10.	Pipe protection Pipe coat	IWL/ Taxa/ Mac-polycoat

FIRE ALARM SYSTEM & FIRE FIGHTING SYSTEM

Sl.	Item	Make
1.	M S Pipe	Jindal/Tata/Prakash
2.	Hose Reel	NewAge/Omex /Vilas/ Minimax/ Padmini
3.	Hydrant Valve	Winco/NewAge/ Arihant/Minimax/Padmini
4.	R R L Hose	CRC/Padmini /NewAge
5.	Fire Bridge Connection	Winco / New Age / Arihant/ Padmini /Minimax/Kalpna/ Kartar
6.	GM Branch Pipe 63Mm. X 20	Winco/ NewAge/ Arihant/CRC /Padmini
7.	Air Vessel	NewAge/Omex /Vilas/ Minimax/ Padmini
8.	Sprinkler	NewAge/Minimax/ SANT/HD/TYCO
9.	Hose Box	NewAge/Omex /Vilas/ Minimax/ Padmini
10.	Butterfly Valve	Intervalve/Audco/Kalpna/Zoloto/Kartar
11.	Fire Extinguisher	Lifeguard/Safex/Ceasfire/Padmini
12.	Pressure Switch/ Pressure Gauge	NewAge/Omex /Vilas/ Minimax/ Padmini/Minimax
13.	LED Signage's Board	Mr. Lite/Lifeguard /Bajaj
14.	Addressable photo thermal Detector	Bosch/Notifier/Edward
15.	Addressable type Sounder	Bosch/Notifier/Edward
16.	Addressable type Manual Call Point	Bosch/Notifier/Edward
17.	Fire Alarm armoured Copper Conductor Cable	Polycab/Havell's/R.R. Cable/Finolex / Rallison
18.	Conventional Type Smoke/ Heat Detector	Apollo/ Honeywell/Agni/Siemens
19.	Conventional Type Sounder	Apollo/ Honeywell/Agni/Siemens
20.	Conventional Type Response Indicator	Apollo/ Honeywell/Agni/Siemens
21.	Conventional Type Manual Call Point	Apollo/ Honeywell/Agni/Siemens
22.	Talk Back Slave station	Apollo/ Honeywell/Agni/Siemens
23.	Fire Alarm Sounder with facility to make Announcement	Apollo/ Honeywell/Agni/Siemens
24.	Conventional Type Fire Alarm Panel	Apollo/ Honeywell/Agni/Siemens
25.	ABC Type Fire Extinguishers	LifeGuard/Safex/Palex/Exflame
26.	CO2 Type Fire Extinguishers	LifeGuard/Safex/Palex/Exflame

CCTV & PA SYSTEM

Sl.	Item	Make
1	NVR/VMS	As per OEM
3	Camera (IP)	Honeywell Impact / Panasonic / Samsung / Matrix / CP Plus
4	Camera (Analog)	Honeywell Impact / Panasonic / Samsung / Matrix / CP Plus

LIST OF ACCEPTABLE MAKE OF RO SYSTEM

S.No.	Material	Make
1	RO Membrane	Eureka Forbes/ Kent/ IonExchange/ Kemflow
2	Refrigerator	LG/ Samsung/ Whirlpool/ Godrej
3	Water Dispenser	Usha/ Voltas/ Bluestar
4	Compressor	LG/ Hitachi/ Copeland/ Whirlpool
5	RO Pump	Kemflow/ IonExchange/ Eureka Forbes /Kentorequivalent
6	RO Filter and accessories	Eureka Forbes/ Kent/ IonExchange/ Kem flow or equivalent

All the materials shall be used confirm to relevant Indian Standard Specification and where ever available material with ISI Certification Mark shall be used.

Note :- The decision of Engineer-in-charge regarding the model of make shall be final and binding based on the prevailing model at the time of execution.

NOTE:

1. In addition to above preferred makes any equivalent make of above mentioned items shall be allowed as approved from ADG (Delhi), CPWD, New Delhi with recommendation of Engineer-in-charge.
2. The weight and thickness of the material should be as per CPWD Specification/ relevant IS code/ manufacturer specification.

कार्यपालक अभियंता (वै.)
राम मनोहर लोहिया वैद्युत मंडल,
के.लो.नि.वि., नई दिल्ली |

Schedule of work (Electrical)						
Name of work: - A/R & M/O Various Electrical and mechanical service of New Doctor's Hostel at ABVIMS at Dr. RML Hospital New Delhi during 2026-27. (Electrical Work & Civil Work).						
Sl. No.	Description of work	Qty.		Rate	Unit	Amount
	Sub Head -I (Operation and Maintenance of EI & Fan)					
1	Maintenance of electrical installation of Doctor Hostel at Dr. RML Hospital, New Delhi as per tern & conditions and scope of work to attend day to day complaints of EI and fans, geysers including panel boards, DBs, rising mains, switches, power and light outlets, cables & wire etc. as regd.	12	Month	236980.00	P/Month	2843760.00
	Skilled Staff- 4 Nos. (Round the clock on all working days i/c Sundays & Holidays)					
	Unskilled Staff - 2 Nos. (As per requirement)					
2	Supply of Following Electrical Materials at JE(E) Store for day-to-day maintenance of EI & Fans, Street Light etc (Modular accessories required as per existing make installed at site)					
2.1	6 Amps to 32 amps SP MCB "C" curve, 10 KA breaking capacity	250	Nos	173.00	Each	43250.00
2.2	Ceiling rose, 3 plate, 5 amps. bakelite	50	Nos	26.00	Each	1300.00
2.3	5/6 amps, one way Modular switch, ISI marked	400	Nos	44.00	Each	17600.00
2.4	5/6 amps, two way Modular switch, ISI marked	100	Nos	87.00	Each	8700.00
2.5	15/16 amps, one way Modular switch, ISI marked	400	Nos	95.00	Each	38000.00
2.6	3 pin 5/6 amps, Modular socket outlet, ISI marked	200	Nos	81.00	Each	16200.00
2.7	6 pin 15/16 amps, Modular socket outlet, ISI marked	250	Nos	135.00	Each	33750.00
2.8	Modular bell push, ISI marked	10	Nos	79.00	Each	790.00
2.9	Step type Modular Fan regulator 1/2 module, 100 Watt 240 Volts (As per requirement)	100	Nos	282.00	Each	28200.00
2.10	Telephone Socket outlet modular type	2	Nos	87.00	Each	174.00
2.11	1/2 module base and cover plate	10	Nos	54.00	Each	540.00
2.12	3 module base and cover plate	40	Nos	72.00	Each	2880.00
2.13	6 module base and cover plate	50	Nos	101.00	Each	5050.00
2.14	8 module base and cover plate	5	Nos	129.00	Each	645.00
2.15	12 module base and cover plate	5	Nos	188.00	Each	940.00
2.16	1/2 Module GI Box	10	Nos	42.00	Each	420.00
2.17	3 Module GI Box	40	Nos	53.00	Each	2120.00
2.18	6 Module GI Box	50	Nos	95.00	Each	4750.00
2.19	8 Module GI Box	5	Nos	115.00	Each	575.00
2.20	12 Module GI Box	5	Nos	146.00	Each	730.00
2.21	Call bell/buzzer	5	Nos	56.00	Each	280.00
2.22	3 Pole MCCB, 125 A, 16KA	5	Nos	4360.00	Each	21800.00
2.23	3 Pole MCCB, 250 A, 25KA	4	Nos	12199.00	Each	48796.00
2.24	3 Pole MCCB, 400 A, 35 KA	1	Nos	20481.00	Each	20481.00
2.25	3 Pole MCCB, 630 A, 50 KA	1	Nos	26456.00	Each	26456.00
2.26	4 Pole MCCB, 125 A, 16KA	1	Nos	7637.00	Each	7637.00
2.27	4 Pole MCCB, 250 A, 25KA	1	Nos	16595.00	Each	16595.00
2.28	4 Pole MCCB, 400 A, 35 KA	1	Nos	40906.00	Each	40906.00

2.29	4 Pole MCCB, 630 A, 50 KA	1	Nos	41318.00	Each	41318.00
2.30	40A 2 pole isolator	8	Nos	346.00	Each	2768.00
2.31	63A 2 pole isolator	8	Nos	436.00	Each	3488.00
2.32	40A4 pole isolator	8	Nos	789.00	Each	6312.00
2.33	63A 4 pole isolator	8	Nos	851.00	Each	6808.00
2.34	1.5 Sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	3000	Mtrs	23.00	P/Mtr.	69000.00
2.35	2.5 Sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	1500	Mtr	36.00	P/Mtr.	54000.00
2.36	4.0 Sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	3000	Mtrs	54.00	P/Mtr.	162000.00
2.37	6.0 Sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	250	Mtrs	81.00	P/Mtr.	20250.00
2.38	10 Sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	50	Mtrs	136.00	P/Mtr.	6800.00
2.39	Supply of ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal(Aluminum alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al bodyPower Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, suitable for operation with regulator for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Ceiling Fan compliant to IS 374:2019 fan Supply, earthing etc. complete as req.					
2.39.1	1200mm, service value ≥ 6.0 CM/Min/Watt, air delivery 210 CM/Min (Minimum)	160	Nos	2421.00	Each	387360.00
2.40	25ltres Capacity water heaters five star rating glass line and, 2KW heating element with protecting against overheating and dry heating, thermal cut-out and semi non-return device ABS body with LED indication lights	90	Nos	11567.00	Each	1041030.00
2.41	3 Ltrs Capacity Geyser, five star rating glass line and, 3KW heating element with protecting against overheating and dry heating, thermal cut-out and semi non-return device ABS outer body with LED indication lights	1	Nos	5321.00	Each	5321.00
2.42	Fresh Air Fan 250 mm	3	Nos	1621.00	Each	4863.00
2.43	300 mm sweep Metal Exhaust Fan (900 RPM)	3	Nos	4019.00	Each	12057.00
2.44	450 mm sweep Metal Exhaust Fan (900 RPM)	2	Nos	5815.00	Each	11630.00
2.45	LED Batten light (System lumen efficacy $\geq 120 < 135$ lm/Watt)					

2.45.1	Supplying of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD< 10% , P. F. ≥0.95, IP20, CRI >80 , Flicker free (flicker should be below 5%), life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends,CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. OEM must have its own in house NABL lab setup for all testing facilities for LED fixtures. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc.as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).					
2.45.1.1	CRCA Sheet Body (Thickness > 0.50 mm)					
2.45.1.1	18- 22 watt	200	Nos.	440.00	Each	88000.00
2.46	LED Panel light 2x2 ft. (System lumen efficacy ≥120 <135 lm/Watt)					
2.46.1	Supplying of Panel light 2x2 ft., of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency>85%, Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD < 10% , P. F. ≥0.95, IP20, CRI >80, UGR (Unified Glare Rating) < 19, Flicker free, (flicker should be below 5 %), life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends,CCT 3000°K / 4000°K / 5700°K / 6000°K / 6500°K (As per ANSI Bin),SDCM(Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥120 <135 lm/Watt output . LM79 & LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal					

	anagement: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).					
2.46.1.1	CRCA Sheet Body (Thickness > 0.50 mm)					
2.46.1.1	36 watt	30	No.	2502.00	Each	75060.00
2.47	LED Down lighter (COB Type) (System lumen efficacy $\geq 105 < 120$ lm/Watt) Supplying of LED Recessed/ surface Down lighter (Round/ square/ Rectangular) COB Type of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV ith Short & Open circuit protection ,THD < 10% , P. F. ≥ 0.95 , IP20, CRI >80 , UGR (Unified Glare Rating) < 19, Flicker free (flicker should be below 5%), life time (LED,Driver & electrical circuitary), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends , CT 3000°K / 4000°K / 5700°K / 6000°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥ 105 and <120 lm/Watt output . LM79 & LM80 Test report from NABL lab for all esting required for LED fixtures as per BIS shall be submitted. Shape size nd CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C)					
2.47.1	Powder coated die cast /Extruded aluminium Body including trim with Aluminium Reflector					
2.47.1.1	18 watt	300	Nos	854.00	Each	256200.00
2.48	2 x 20 watt UV tube insect killer in stainless steel body, single side open, wall mounted with tubes complete with catch tray capacitor, choke, safety grid etc. operated on 220 volts, 50 HZ.	5	Nos	5535.00	Each	27675.00
3	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required					
3.1	Group C	20	Points	2101.00	P/Point	42020.00
4	Rewiring for light point/ fan point/ exhaust fan point/call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable and 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel/PVC conduit including dismantling as required					
4.1	Group A	450	Points	687.00	P/Point	309150.00
5	Supplying and drawing following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required					

5.1	3 x 1.5 sq. mm	600	Mtrs	104.00	P/Mtr	62400.00
5.2	3x 2.5 sq.mm	400	Mtrs	148.00	P/Mtr	59200.00
5.3	3 x 4 sq. mm	600	Mtrs	222.00	P/Mtr	133200.00
5.4	3 x 6 sq. mm	100	Mtrs	326.00	P/Mtr	32600.00
6	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	100	Nos	545.00	Each	54500.00
7	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	100	Nos	659.00	Each	65900.00
8	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed steel conduit as required.					
8.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	50	Mtrs	370.00	P/Mtr	18500.00
8.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	50	Mtrs	414.00	P/Mtr	20700.00
8.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	150	Mtrs	476.00	P/Mtr	71400.00
8.4	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	40	Mtrs	652.00	P/Mtr	26080.00
8.5	4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire	100	Mtrs	621.00	P/Mtr	62100.00
8.6	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	100	Mtrs	744.00	P/Mtr	74400.00
8.7	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	25	Mtrs	1001.00	P/Mtr	25025.00
9	Supplying and drawing following pair 0.5 mm dia FRLS/HFFR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.					
9.1	2 pair	200	Mtrs	39.00	P/Mtr	7800.00
9.2	4 Pair	20	Mtrs	53.00	P/Mtr	1060.00
10	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.					
10.1	25 mm	200	Mtrs	168.00	P/Mtr	33600.00
11	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.					
11.1	1 or 2 Module (75mm X 75 mm)	10	Nos	354.00	Each	3540.00
11.2	3 Module (100mmX75mm)	15	Nos	384.00	Each	5760.00
11.3	6 Module (200mmX75mm)	15	Nos	462.00	Each	6930.00
11.4	8 Module (125mmX125mm)	10	Nos	517.00	Each	5170.00
11.5	12 Module (200mmX150mm)	2	Nos	614.00	Each	1228.00
12	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
12.1	5/6 A switch	70	Nos	121.00	Each	8470.00
12.2	15/16 A switch	50	Nos	176.00	Each	8800.00
12.3	3 pin 5/6 A socket outlet	50	Nos	136.00	Each	6800.00
12.4	6 pin 15/16 A socket outlet	50	Nos	219.00	Each	10950.00
12.5	Telephone socket outlet	100	Nos.	168.00	Each	16800.00
13	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.					
13.1	3 Module (100mmX75mm)	5	Nos	175.00	Each	875.00
13.2	6 Module (200mmX75mm)	5	Nos	207.00	Each	1035.00
13.3	8 Module (125mmX125mm)	5	Nos	238.00	Each	1190.00
13.4	12 Module (200mmX150mm)	5	Nos	301.00	Each	1505.00

14	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	15	Nos	104.00	Each	1560.00
15	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
15.1	4 way (4 + 12), Double door	5	Nos	4377.00	Each	21885.00
15.2	6 way (4 + 18), Double door	8	Nos	5299.00	Each	42392.00
15.3	8 way (4 + 24), Double door	8	Nos	6337.00	Each	50696.00
16	Supplying and fixing Cable End Box (Loose Wire Box) suitable for triple pole and neutral, sheet steel, Vertical MCB distribution board, 415 Volts, on surface/ recess, complete with testing and commissioning etc. as required.	1	Nos	1271.00	Each	1271.00
17	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
17.1	12-way , Double door	12	Nos	2871.00	Each	34452.00
18	Supplying and fixing Cable End Box (Loose Wire Box) suitable for following single pole and neutral, sheet steel, MCB distribution board, 240 Volts, on surface/ recess, complete with testing and commissioning etc. as required.					
18.1	For 8-way, Double door SPN MCBDB	1	Nos	918.00	Each	918.00
18.2	For 6-way, Double door SPN MCBDB	1	Nos	834.00	Each	834.00
19	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, Ics=100% Icu and Operational Voltage 690V etc. as required					
19.1	100 A, 16 KA,TPMCCB	1	Nos	4003.00	Each	4003.00
19.2	200 A, 25 KA,TPMCCB	1	Nos	11586.00	Each	11586.00
19.3	125 A,36KA,FPMCCB	10	Nos	8644.00	Each	86440.00
19.4	200 A,36KA,FPMCCB	7	Nos	15956.00	Each	111692.00
19.5	250 A,50KA,FPMCCB	2	Nos	19313.00	Each	38626.00
19.6	400 A,50KA,FPMCCB	1	Nos	44663.00	Each	44663.00
19.7	630 A,50KA,FPMCCB	1	Nos	45108.00	Each	45108.00
20	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
20.1	40 A	10	Nos	1049.00	Each	10490.00
20.2	63 A	10	Nos	1115.00	Each	11150.00
21	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
21.1	Single pole	100	Nos	285.00	Each	28500.00
22	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/cable as required.	400	Mtr	50.00	P/Mtr.	20000.00

23	Supply, installation testing & commissioning of 300 mm, 1400 RPM sweep, heavy Duty exhaust fan with louvres in the existing opening i/c connection with 1.5 sq mm FRLS PVC insulated copper conductor s/c cable etc. as required.	5	Nos	4856.00	Each	24280.00
24	Supply, Installation, Testing and Commissioning of ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal(Aluminium alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body. Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, remote (preferably mobile app based) for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 0C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC supply Ceiling Fan compliant to IS 374:2019 fan i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required.					
24.1	1400mm, service value ≥ 6.0 CM/Min/Watt, air delivery 245 CM/Min (Minimum)	5	Nos	2913.00	Each	14565.00
25	Supply, installation testing & commissioning of 10 watt wall mounted Bulkhead fitting on the existing Lift Shaft with Environmental friendly, ultra modern, energy saving, surface mounted, decorative bulk head Back-lit LED luminaire comprising of high brightness LEDs suitable for operation on single phase A.C. supply with polycarbonate diffuser & integrated electronic driver, connection with 1.5 sqmm PVC insulated copper conductor i/c dismantling the existing fitting etc. complete as required.	20	Nos	997.00	Each	19940.00
26	Supplying, Installation, Testing and Commissioning of Ceiling Exhaust fan 100mm having cutout size 204mm x 204 mm or as per existing size, 1250-1500 cooper winding, dust protective shutter, overload thermal protection etc. including connection with 1.5 Sq.mm FRLS PVC insulated copper conductor single core cable on the existing wall ceiling/false ceiling including fixing the same with hole fasteners etc as required i/c credit the cost of existing dismantled material with labour charges.(the size as per existing of different make)	200	Nos	3442.00	Each	688400.00
SUB HEAD-I						8007404.00
Sub Head II (Sub Station, DG Set)						
1	Running operation and routine maintenance of one no. 11/0.433 KV sub station, D.G. sets, pump sets, submersible pumps of New Doctor Hostel building etc as required.	12	Month	160484.00	P/Month	1925808.00
	Skilled Staff- 3 Nos. (Round the clock on all working days i/c Sundays & Holidays)					
	Unskilled Staff - 1 Nos. (General shift i/c Sundays & Holidays)					
2	Supply of HSD Diesel Oil for various DG Sets at Dr. RML Hospital Buildings	2000	Ltr	98.00	P/Ltr	196000.00
3	Routine/preventive maintenance of 2 x 500 KVA capacity DG Sets of kirloskar make alongwith AMF panel in New Doctor Hostel building as per maintenance schedule, scope of work and condition attached i/c attending faults / breakdown, repairing,	2 job	Month	10856.00	P/Month	260544.00
		For				
		12				

	servicing as and when required but excluding spare parts as per recommendation of OEM etc. complete as reqd.					
4	Carryout 'B' check servicing of 2 x 500 KVA Kirloskar make DG Setas per terms and conditions attached i/c credit the cost of dismantled material from OEM .					
4.1	Element, Lub Oil Filter	4	Nos	6183.00	Each	24732
4.2	Fuel Filter	4	Nos	5368.00	Each	21472
4.3	Fuel Filter	4	Nos	7165.00	Each	28660
4.4	Air Filter	4	Nos	37364.00	Each	149456
4.5	Oil	100	Ltrs	432.00	P/Ltrs	43200
4.6	Coolant	100	Ltrs	461.00	P/Ltrs	46100
5	Supply and replacementg of SMF/VRLA battery of capacity of 12 Volt 180 AH, 25 plate or as required i/c credit the cost of dismantled material etc commplete as required as per OEM of DG set.	2	Nos.	15052.00	Each	30104.0
6	Servicing and overhauling of 4 pole 415/50volt LT ACB 800/1000/1250/1600/2000/3200 amps rating L&T make comprising drawout ,cleaning with CTC cleaner , checking and repairing of fixed and moving contacts, de carbonization with silver cleaner, insulation testing , testing and repairing of trip circuit electrically and mechanically . indicator. wiring , oiling , greasing re fixing testing as reqd .	22	Nos	5756.00	Each	126632.00
7	Checking/ testing & calibration of IDMT relays set having over current and earth fault relay with secondary injection method.	28	Nos	4797.00	Each	134316.00
8	Overhauling, servicing and testing of HT 11 KV. VCB, 3phase, 630 A ABB make comprising draw out trolley, disconnection of power supply, cleaning of spout, with CTC, testing of VCB against leakage current with 5000V megger, checking of lowering & raising mechanism, oiling, greasing, cleaning of CT chamber & body of H.T. breaker & removing all dust & dirt with appropriate cleaner, chacking of bus bar & its connection / nut bolt & sealing the same with H.T. compound, tapping, checking & rectification of all control wiring, tripping arrangement, annuciation circuit, heater & its wiring, indicating lamps fuse & replacing the defective one etc. as reqd.	6	Job	5948.00	P/Job	35688.00
9	Dehydration & filtration of transformer oil to achive di-electric strength up to 50 KV BDV at a standard gap etc. as reqd.	3000	Ltr	25.0	P/Ltr	75000.00
10	Supply and replacement of silica gel for transformer breather	5	Kg	1077.0	P/Kg	5385.00
11	Supplying & topping up of transformer oil up to the level as reqd.	100	Ltr	193.0	P/Ltr	19300.00
12	Location of cable fault (Pin-Pointing) in the existing power cables of size 3.50 x 185/240/300 sq.mm of 1.1 KV grade by fault locating machine etc complete as required.	2	Job	14249.00	P/Job	28498
13	Supplying and Laying following size PVC insulated and PVC sheathed XLPE power aluminium conductor armoured cable of 1.1 KV grade on wall surface by suitable size saddling / cable tray/ existing RCC/ Hume/Stoneware/Metal pipe etc complete as reqd.					
13.1	3.5 Core 25 Sqmm	100	Mtr	489.00	P/Mtr	48900.00
13.2	3.5 Core 70 Sqmm	50	Mtr	1121.00	P/Mtr	56050.00
13.3	3.5 Core 120 Sqmm	100	Mtr	1767.00	P/Mtr	176700.00

13.4	3.5 Core 185 Sqmm	40	Mtr	2570.00	P/Mtr	102800.00
13.5	3.5 Core 240 Sqmm.	40	Mtr	3320.00	P/Mtr	132800.00
13.6	3.5 Core 300 Sqmm.	30	Mtr	4082.00	P/Mtr	122460.00
14	Supplying and making end termination with brass compression gland and aluminum lugs for following size of PVC insulated and PVC sheathed / XLPE aluminum conductor cable of 1.1 KV grade as required.					
14.1	3½ X 25 sq. mm (28mm)	4	Nos.	371.00	Each	1484.00
14.2	3½ X 70 sq. mm (38mm)	2	Nos.	542.00	Each	1084.00
14.3	3½ X 120 sq. mm (45mm)	4	Nos.	710.00	Each	2840.00
14.4	3½ X 185 sq. mm (57mm)	2	Nos.	1001.00	Each	2002.00
14.5	3½ X 240 sq. mm (62mm)	2	Nos.	1160.00	Each	2320.00
14.6	3½ X 300 sq. mm (70mm)	5	Nos.	1336.00	Each	6680.00
15	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.					
15.1	3½ X 185 sq. mm	2	Nos	4886.00	Each	9772.00
15.2	3½ X 300 sq. mm	2	Nos	6599.00	Each	13198.00
16	Supplying and making indoor cable end jointing with cast resin compound, including lugs and other jointing materials, for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :					
16.1	240 sq. mm	1	No.	4144.00	Each	4144.00
17	Supplying and making straight through cable jointing with cast resin compound, including ferrule and other jointing materials, for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required:					
17.1	240 sq. mm	1	No.	8392.00	Each	8392.00
18	supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required:					
18.1	240 sq. mm	1	No.	17414.00	Each	17414.00
19	Supplying, installation, testing and commissioning of following accessories in the existing cubicle panel board i/c connection, interconnection et c. as reqd.					
19.1	CTs 400/5 (1 set = 3 Nos)	15	Nos	2963.00	Each	44445.00
19.2	3 Ph Digital Ammeter CL-1.0 with selector switch	20	Nos	2023.00	Each	40460.00
19.3	3 Ph Digital Voltmeter CL-1.0 with selector switch	20	Nos	2023.00	Each	40460.00
19.4	Phase Indicating Lamps (RBY) (1 set = 3 Nos)	50	Nos	500.00	Each	25000.00
19.5	6A SP MCB C-Series	10	Nos	285.00	Each	2850.00
20	SITC of Multi-Functional Meter of size 96mm X 96mm is showing the KW, KVA, Overpower Factor & Frequency with class-I accuracy with RS485 port along with Suitable CT's - 1 Set and 3 Sets of SPMCB's etc., fixed in the existing panel i/c cutting and Connections and Interconnections etc., complete as required.,	5	Nos	6462.00	Each	32310.0
21	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, fastner etc as required					
21.1	100 mm width X 50 mm depth X 1.6 mm thickness	20	Mtrs	754.00	P/Mtr	15080.00

21.2	150 mm width X 50 mm depth X 1.6 mm thickness	40	Mtrs	803.00	P/Mtr	32120.00
21.3	225 mm width X 50 mm depth X 1.6 mm thickness	20	Mtrs	991.00	P/Mtr	19820.00
21.4	300 mm width X 50 mm depth X 1.6 mm thickness	40	Mtrs	1062.00	P/Mtr	42480.00
22	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	6	Set	15004.00	P/Set	90024.00
23	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	75	Mtr	1638.00	P/Mtr	122850.00
24	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	50	Mtr	1246.00	P/Mtr	62300.00
TOTAL SUB HEAD-II						4430134.00
	Sub Head III (Lifts)					
1	Providing services for manual operation, maintenance and cleaning of the following lifts in round the clock on block A & C as per shift mentioned and terms & conditions attached on all working day i/c Sunday & Holiday etc. complete as required	12	Month	286465.00	P/Month	3437580.00
	Skilled Staff- 6 Nos. (2 Nos in the Round the clock on all working days i/c Sundays & Holidays)					
	Unskilled Staff - 1 Nos. (General shift i/c Sundays & Holidays)					
2	Comprehensive maintenance of 6 Nos. 13 passenger 24 opening MITSUBISHI ELEVATOR INDIA PVT LTD make lift i/c installed parts with ARD system and battery, microprocessor based AVVVF simplex collective selective operation as per manufacturer standard practice and terms & condition attached etc complete as reqd. (6 Nos)	6	Nos.			
		12	Month	30912.00	P/Month	2225664.00
TOTAL SUB HEAD-III						5663244.00
Sub Head -IV (Fire Alarm system & Fire Fighting system)						
1	Providing services for operation and routine maintenance of fire fighting system i.e. wet riser system, sprinkler system complete with all its associated equipments & machineries installed at New Dr. Hostel in Dr. RML Hospital, New Delhi all the day round the clock i/c Saturday, Sunday & Holiday etc. complete as required.	12	Month	160484.00	P/Month	1925808.00
	Skilled Staff- 3 Nos. (Round the clock on all working days i/c Sundays & Holidays)					
	Unskilled Staff - 1 Nos. (General shift i/c Sundays & Holidays)					
2	Providing services for Operation of Addressable & intelligent type fire alarm system of in three shift (round the clock) on all working days i/c Sundays and holidays that includes fire alarm panel, voice announcement system, detector, fire fighter system, fire fighter handset, fire fighter jack, sounder, monitor, module complete etc. as reqd.	12	Months	160484.00	P/Month	1925808.00
	Skilled Staff- 3 Nos. (Round the clock on all working days i/c Sundays & Holidays)					
	Unskilled Staff - 1 Nos. (General shift i/c Sundays & Holidays)					

3	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 1239/Class -II of IS: 3589 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required					
3.1	25 mm	40	Mtr	920.00	P/Mtr	36800.00
3.2	80 mm	30	Mtr	2277.00	P/Mtr	68310.00
3.3	100 mm	30	Mtr	3077.00	P/Mtr	92310.00
3.4	150 mm	36	Mtr	4299.00	P/Mtr	154764.00
3.5	200 mm dia (wall thickness 6.3 mm)	6	Mtr	6620.00	P/Mtr	39720.00
4	Supplying and fixing single headed internal hydrant valve with instantaneous Gunmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required					
4.1	Single headed Stainless steel	15	Set	6632.00	P/Set	99480.00
5	Supplying and fixing Single headed external yard hydrant valve with 1 No. 63 mm dia instantaneous FM Gunmetal/Stainless Steel coupling and cast iron wheel, ISI marked, conforming to IS 5290 (type A) with blank Gunmetal/Stainless Steel cap and chain as required					
5.1	Single headed Stainless steel	1	Set	6632.00	P/Set	6632.00
6	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :					
6.1	80 mm dia	4	Set	5406.00	P/Set	21624.00
6.2	100 mm dia	4	Set	7271.00	P/Set	29084.00
6.3	150 mm dia	8	Set	9737.00	P/Set	77896.00
7	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required :					
7.1	40 mm	5	Set	6257.00	P/Set	31285
7.2	50 mm	2	Set	6257.00	P/Set	12514
7.3	65 mm	1	Set	6913.00	P/Set	6913
7.4	80 mm	2	Set	8255.00	P/Set	16510
7.5	100 mm	5	Set	11853.00	P/Set	59265
7.6	150 mm	3	Set	18884.00	P/Set	56652
7.7	200 mm	2	Set	30896.00	P/Set	61792
8	Supplying and fixing 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) as required :					
8.1	Stainless Steel (Grade 304)	10	Set	4667.00	P/Set	46670.00
9	Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required.	16	Set	9440.00	P/Set	151040.00
	20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type - 2 as per IS: 12585					
	20 mm nominal internal dia gun metal globe valve & nozzle.					
	Drum and brackets for fixing the equipments on wall.					

	Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket.					
9.1	30 m					
10	Supplying & fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required :					
10.1	Stainless Steel (Grade 304)	10	Nos	1756.00	Each	17560.00
11	Supplying and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia gun metal wheel valve with required accessories, pressure gauge and painting with synthetic enamel paint of approved shade as required.	1	Set	19402.00	P/Set	19402.00
12	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 0C with required accessories :					
12.1	Pendent Sprinkler	120	Nos	599.00	Each	71880.00
12.2	Upright Sprinkler	40	Nos	599.00	Each	23960.00
13	Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required	2	Nos	1670.00	Each	3340.00
14	Providing & fixing flow switch in following sizes M.S. pipe including connection etc as required					
14.1	100mm dia	3	Nos	8069.00	Each	24207.00
14.2	150mm dia	3	Nos	9644.00	Each	28932.00
15	Supplying, installation, testing & commissioning of sprinkler flexible pipe (UL Listed) of stainless steel complete with 15 NPT on reducer thread with maximum working pressure of 175 PSI test pressure of 875 PSI (Burst) with branch line (Inlet) 25mm NPT male thread to sprinkler head (Outlet) 15mm NPT female thread with reducer, nipple, 2 side brackets, center bracket, stockbar of following sizes complete as required.					
15.1	1000mm	120	Set	1703.00	P/Set	204360.00
16	Supplying & laying of 2x1.5 sqmm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armouring & FRLS/HFFR outer sheath complete as required	200	Mtr	192.00	P/Mtr.	38400.00
17	Supply and fixing of duly painted Hose box in postal red colour of size (900 mm x 600 mm x 450) 16 gauge suitable for 2 no. 15 mtr. Hose and 1 no short branch pipe and 1 no hydrant. Complete as reqd	1	No	9619.00	Each	9619.00
18	Supply and fixing of duly painted Hose box in postal red colour of size (750 mm x 600 mm x 250) 16 gauge suitable for 2 no. 15 mtr. Hose and 1 no short branch pipe Complete as reqd	1	No	5153.00	Each	5153.00
19	Providing and fixing in position the industrial type pressure gauges with gun metal / brass valves i/c dismantling the old material etc complete as required.	4	Nos	1466.00	Each	5864.00
20	Supplying, installation, testing & commissioning of intelligent addressable thermal detector with rate of rise cum fixed temperature thermistor complete with base as required.	10	Nos	2866.00	Each	28660.00
21	Supplying, installation, testing & commissioning of intelligent addressable programmable sounder complete as required.	10	Nos	2787.00	Each	27870.00

22	Supplying, installation, testing & commissioning of intelligent analog addressable photothermal detector complete with mounting base complete as required.	200	Nos	3004.00	Each	600800.00
23	Supplying, installation, testing & commissioning of response indicator on surface/recessed MS Box having two LED, metallic cover complete with all connections etc as required	20	Nos	306.00	Each	6120.00
24	Supplying, installation, testing & commissioning of addressable manual call point complete as required.	15	Nos	4063.00	Each	60945.00
25	Supplying, installation, testing & commissioning of 1.5/3/6W ceiling speaker complete as required	1	No	1025.00	Each	1025.00
26	Taking out of following type of fire extinguisher cylinder from various Buildings at Dr. RML Hospital from the existing stands / hooks & making cylinder empty in the presence of A.E. (E) / J.E. (E) & getting the empty certification report from the A.E. (E) / J.E. (E) & refilling the same from the authorized refilling station & refixing the same place with to & fro from the RML Hospital etc complete as required.					
26.1	ABC Fire Extinguisher of 5/6 Kg.	42	Nos.	790.00	Each	33180.00
26.2	CO2 Fire Extinguisher of 4.5 Kg.	74	Nos.	694.00	Each	51356.00
	Total Sub Head IV					6183510.00
	Sub Head-V (RMO Parking Manually & EV Charing)					
1	Providing services for operation and routine maintenance of parking manually & EV charging system complete with all its associated equipments & machineries on all working days i/c Saturday, Sunday & Holiday etc. complete as required.	12	Months	160484.00	P/Months	1925808.00
	Skilled Staff- 3 Nos. (Round the clock on all working days i/c Sundays & Holidays)					
	Unskilled Staff - 1 Nos. (General shift i/c Sundays & Holidays)					
2	AMC of WOHR make parking system complete with repairing all its associated equipments & machineries complete etc as required as intruction of Engineer in charge -52 Nos	12	Months	44390	P/Months	532680.00
3	CMC of the entire Parkplus make hardware and softwar of parking management system i/c preventive maintenace , repair/replacement of defective parts, software support and other supportive parts i.e UHF reader, Sensor, LED display ,interface modules etc installed at the site, ensuring complete operational support and maintenance of all devices.	12	Months	47580	P/Months	570960.00
	Total of Sub Head - V					3029448.00
	Sub Head-VI (RMO CCTV & EPABX System)					
1	Providing services for operation and routine maintenance of CCTV & EPABX System complete with all its associated equipments & machineries installed on all working days i/c Saturday, Sunday & Holiday etc. complete as required.	12	Months	76907.00	P/Months	922884.00
	Skilled Staff- 1 Nos. (Round the clock on all working days i/c Sundays & Holidays)					
	Unskilled Staff - 1 Nos. (General shift i/c Sundays & Holidays)					

2	Comprehensive Maintenance Contract (CMC) of Honeywell Impact Make CCTV System installed at New Doctor Hostel Building, RML Hospital, New Delhi, comprising approximately 53 Nos. Honeywell Impact Dome/Bullet Cameras, 2 Nos. 32 Channel NVR, SATA HDD, Network Switches, PC System, Cable & Wiring System and other associated accessories, including Preventive Maintenance, Breakdown Maintenance, Software/Firmware Support and Comprehensive Service Support.	12	Month	52386.00	P/Month	628632.00
3	Supplying Installation Testing and Commissioning of 5/6MP IP IR Dome Camera having following specifications and features etc :- 1) Type of Camera: Dome Camera 2) Image Sensor: 1/2.8" or better progressive Scan CMOS get color image even at night condition 3) Signal System: PAL/NTSC 4) Minimum Illumination: 0.008Lux@ F1.4, AGC ON, 0 lux with IR or better 5) Imaging: 1/3s to 1/30000s Shutter Support, Auto Gain Control, White Balance- Auto, Back Light Compensation, Multi zone Privacy Masking, HLC, Digital Watermarking 6) On Screen Display: Camera should display Camera title, Date & Time in live & recorded video both 7) Signal to Noise Ratio: > 50 dB 8) Day & Night: True Day & Night High Performance Mechanical IR cut filter with auto switch, IR SourceInbuilt IR LED's with effective distance upto 50 Mtrs integrated IR 30 Mtrs for colour view in night 9) Video Compression (Minimum): H.265 or better, Audio:- G.711U/A, G.711Mu, G.726, AAC, G.723 10) Wide Dynamic Range: WDR (120dB or more) 11) Digital Noise Reduction: DNR (2D/3D) On/Off 12) Streaming: Triple streaming, configurable 13) Video Streaming & Frame Rates: Triple streaming, configurable Main stream: 5/6MP @25/30 fps, Sub streams: D1@25/30 fps or better 14) Image Setting: Rotate Mode, saturation, brightness, contrast, sharpness adjustable through client software or web browser					
	15) Profile Management: User configuration import, export 16) Security: User Authentication, Water Marking 17) Onboard Storage: Camera should support built-in Micro SD/SDHC/SDXC Card slot upto 512 GB. It should be supplied with minimum 128GB memory Card 18) Recording Management: Format SD, overwrite, storage management, video to NAS device, 19) Edge Analytics : Tripwire, Intrusion, Motion Detection 20) Alarm Trigger : Motion/tampering detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection 21) Alarm Support: It should have 1/1 Alarm In/ Out Port 22) Audio Support: It should have 1x Built-In Mic and 1/1 Audio In/ Out Port for external Mic. and Speaker (As per site requirement) with G.711U/A/ G.711Mu/ AAC/ G.726 audio compression 23) Network Protocol: SFTP, IPv6, IPv4, DNS, RTCP, NTP, RTP, HTTP, HTTPS, SNMP TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, unicast 24) System Capability: ONVIF					

	25) VMS: Camera shall support open source VMS 26) Cyber Security: trusted boot, AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, , account lockout, video encryption, IP/MAC filtering, HTTPS, trusted upgrade 27) Ethernet: 1 RJ 45 10/100 Ethernet port 28) Power Input: The camera should support simultaneous dual power input—12 VDC (via power adapter) and PoE—to ensure continuous operation in the event of a failure in one power source. 29) Power Requirement: 12VDC/24VDC/PoE (802.3af)/ePoE 30) Enclosure: IP67 weather proof, IK10 31) Operating Condition: Ambient Temperature:- (-) 05°C to 50°C, humidity 95% (max) (non-condensing) 32) IR life: 40000 hours or higher 33) Video Bit rate: 32 KBPS - 8 MBPS or better 34) Standards: BIS with ER, STQC Certified, CE, FCC and RoHS					
3.1	5MP/6MP IP IR 2.8/ 3.6/6/8/12 mm fixed lens (as per site requirement) Dome Camera	10	Nos	12800.00	Each	128000.00
4	Supplying Installation Testing and Commissioning of 5MP/6 MP IP IR Bullet Camera having following specifications, type of lens and features etc :- 1) Type of Camera: Bullet Camera 2) Image Sensor: 1/2.8" or better progressive Scan CMOS get color image even at night condition 3) Signal System: PAL/NTSC 4) Minimum Illumination: 0.006Lux@ F1.4, AGC ON, 0 lux with IR or better 5) Imaging: 1/3s to 1/30000s, Auto Gain Control , White Balance- Auto, Back Light Compensation, Multi zone Privacy Masking, HLC, Digital Watermarking 6) On Screen Display: Camera should display Camera title, Date & Time in live & recorded video both 7) Signal to Noise Ratio: > 50 dB 8) Lens Type & Focus: as given below. 9) Day & Night: True Day & Night High Performance Mechanical IR cut filter with auto switch, IR SourceInbuilt IR LED's with effective distance upto 50 Mtrs integrated IR and 30 Mtrs for colour view in night					

	10) Video Compression (Minimum): H.265 or better, Audio:- G.711U/A, G.711Mu, G.726, AAC, G.72311) Wide Dynamic Range: WDR (120dB or more)12) Digital Noise Reduction: DNR (2D/3D) On/Off13) Streaming: Triple streaming, configurable14) Video Streaming & Frame Rates: Triple streaming , configurable Main stream: 5MP/6MP @25/30 fps, Sub streams: D1@25/30 fps or better15) Image Setting: Rotate Mode, saturation, brightness, contrast, sharpness adjustable through client software or web browser16) Profile Management: User configuration import, export17) Security: User Authentication, Digital Water Marking18) Onboard Storage: Camera should support built-in Micro SD/SDHC/SDXC Card slot upto 512 GB. It should be supplied with minimum 128GB memory Card.19) Recording Management: Format SD, overwrite, storage management, video to NAS device20) Edge Analytics: Tripwire, Intrusion, Motion Detection21) Alarm Trigger : Motion/tampering detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection22) Alarm Support: It should have 1/1 Alarm In/ Out Port23) Audio Support: It should have 1x Built-In Mic and 1/1 Audio In/ Out Port for external Mic. and Speaker (As per site requirement) with G.711U/A / G.711Mu/ AAC/ G.726 audio compression					
	24) Network Protocol: SFTP, IPv6, IPv4, DNS,RTCP, NTP, RTP, HTTP, HTTPS, SNMP TCP/IP, PPPoE, NFS, UDP, ICMP, SSL, DHCP, SMTP, RTSPS, unicast, 25) System Capability: ONVIF 26) VMS: Camera shall support open source VMS 27) Cyber Security: trusted boot, AES 256-bit Encryption, Configuration encryption, trusted execution, Digest, security logs, account lockout, video encryption, IP/MAC filtering, HTTPS, trusted upgrade 28) Ethernet: 1 RJ 45 10/100 Ethernet port 29) Power Input: The camera should support simultaneous dual power input—12 VDC (via power adapter) and PoE—to ensure continuous operation in the event of a failure in one power source 30) Power Requirement: 12VDC/24V DC/PoE (802.3af)/ePoE 31) Enclosure: IP67 weather proof, IK10 32) Operating Condition: Ambient Temperature:- (-)05°C to 50°C, humidity 95% (max) (non-condensing) 33) IR life: 40000 hours or higher 34) Video Bit rate: 32 KBPS - 8 MBPS or better 35) Standards: BIS with ER, STQC Certified, CE, FCC and RoHS					
4.1	5MP/6MP IP IR 2.8/ 3.6/6/8/12 mm fixed lens (as per site requirement) outdoor bullet Camera	5	Nos	12525.00	Each	62625.00

5	Supplying Installation Testing and Commissioning of PTZ (Pan,Tilt and Zoom) IP IR Camera having following specifications and features etc :- 1) IP IR PTZ Camera: Motorized PAN TILT ZOOM with IR 2) Image Sensor: 1/2.8" or better progressive Scan CMOS 3)Signal System: PAL/NTSC 4) Minimum Illumination: 0.008 Lux@ F1.6, AGC ON, 0 lux with IR, or better 5) Imaging: 1/1s to 1/30000s, Auto Gain Control , White Balance- Auto, Back Light Compensation, Image Rotation, Multi zone Privacy Masking (Upto 24 Area), HLC, Defog, Region Of Interest and EIS features. 6) On Screen Display: Camera should display Camera title, Date & Time in live & recorded video both. 7) Signal to Noise Ratio: > 50 dB 8) Event Notification: Through Relays, E-Mails or FTP					
	9) Day & Night: True Day & Night High Performance Mechanical IR cut filter with auto switch, IR SourceInbuilt IR LED's with effective distance. The camera should have IR LED's and cover distance up to 300 meter or above 10) Auto Tracking: The camera should be equipped with Deep-learning-based auto tracking function using simultaneously all of the panning, tilting and zooming should be available. When a motion is detected in a registered monitoring area, the camera should track the motion (object) and capture it.					
	11) Pre/Post Event Buffering: The camera should support atleast of 5 seconds of pre & post event buffering. 12) Presets: 300 Presets 13) Video Compression (Minimum): H.265 or better, H.264, Audio:- G.711U/A, G.711Mu, G.726, AAC, G.723 14) Wide Dynamic Range: WDR (120dB or more), HLC & BLC 15) Digital Noise Reduction: DNR (2D+3D) On/Off 16) Image Setting: Rotate Mode, ROI ,EIS, Defog, saturation, brightness, contrast, sharpness adjustable through client software or web browser 17) Profile Management: User configuration import, export					
	18) Cyber Security: Configuration encryption, AES 256-bit Encryption, Digest, account lockout, video encryption, IP/MAC filtering, trusted boot, trusted upgrade, trusted execution 19) Onboard Storage: Camera should support built in Micro SD/SDHC/SDXC Card slot upto 512 GB . It should be supplied with minimum 128GB Memory. 20) Recording Management: Format SD, overwrite, storage management, video to NAS device, remote archive access via FTP login 21) Edge based Video Analytics & Alarm Trigger: Motion/tampering detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection, Tripwire, Intrusion, Object Abandon/ Missing, SMD, Face Detection					

	22) Network Protocol: SFTP, IPv6, IPv4, DNS, NTP, HTTP, HTTPS, SNMP, TCP/IP, PPPoE, NFS, ICMP, DHCP, SMTP, RTSPS. 23) System Capability: ONVIF Profile S, G & T. CCTV Camera OEM should be fulltime member of ONVIF and quoted models should be listed on ONVIF official website (All the certifications & Credentials should be valid on the date of technical evaluation). 24) VMS: Camera shall support open source VMS 25) Connectivity: 1x LAN RJ-45 (10/100Base-T) 26) Audio Support: Audio Interface : The camera should have 1/1 Audio In/Out to connect External Mic and Speaker Audio Compression : PCM, G.711U/A, G.711MU, G.726, MPEG2-Layer2, G.722.1 27) Alarm In/Out : Alarm In/out- 7/2 Ch In/Out					
	28) Power Input: The camera should support simultaneous dual power input—DC/ AC (via power adapter) and PoE (802.3af)—to ensure continuous operation in the event of a failure in one power source. 29) Power Requirement: 24 VDC, 2.5 A (± 25%), PoE+ (802.3at) 30) Enclosure & Weather Proof Standard: IP67 weather proof and IK10, TVS 8000V lightning proof, surge protection, voltage transient protection 31) Operating Condition:- Ambient Temperature:- (-)05°C to 50°C, humidity 95% (max) (non-condensing) 32) IR life: 40000 hours or higher 33) Video Bit rate: 32 KBPS - 8 MBPS or better 34) Standards: BIS with ER, STQC Certified, CE, FCC and RoHS					
5.1	5MP IP IR motorized PTZ @25/30fps or better camera, Triple streaming , configurable on resolution:- Main stream: 5MP@25/30 fps Sub streams:1080p@25/30 fps, varifocal lens 3.95mm (±5mm) ~ 177.75mm (±5mm) or better with Automatic & manual Focus Adjustment provisions, 32x Optical zoom and 12x Digital zoom with angle of view H: 65.7°–1.9°V: 39.4°–1.1°D: 73.1°–2.1, PAN Travel: Pan: 0° ~ 360° endless, Manual Pan: 260° /s, Preset : 300° /s, Tilt Travel: Tilt: -20° ~ 90°, auto flip 180°, Manual Tilt: 120° /s, Preset : 200° /s	1.00	Nos.	107974.0 0	Each	107974.00
Total of Sub Head - VI						1850115.00
SH-VII (RO System and water supply pump)						
1	Providing services for operation and routine maintenance of RO/ chiller unit, water cooler of different capacity, Operation of mud pump/sewage pump set, operation of water supply pump, motor set, submersible complete with all its associated equipments & machineries installed at New doctor hostel, New Delhi (Pump operator cum RO operator- 2 No. (6.00 AM to 10.00 PM) on all working days i/c Sunday & Holiday etc. complete as required.	12	Month	84125.00	P/Month	1009500.00
2	Comprehensive annual maintenance of Eureka Forbes R.O. Plant of capacity (25 LPH) including repair/replacement of all electrical/electronic/consumable parts like membrane, all pre and post filters, RO pump, uv system etc. for OEM. (42 Nos)	12	Month	697.00	Per RO Per Month	351288.00

3	Supply & replacement of following spare parts in existing water cooler i/c dismantling connection, testing & commissioning and buyback of the same etc. complete as required.(material required as per site requirement of different make)					
3.1	Refrigerant Gas charging R-134a/R-22 in 80/120 RO+UV (1 No. water cooler) with defection of leakage in pipe line, vacuuming.	15	Job	3412.00	Each	51180.00
3.2	Push Type PVC coated metal tap for water cooler/R.O. water line	20	Nos.	599.00	Each	11980.00
3.3	Push Type Chrome plated Brass Tap for water cooler/R.O. water line	20	Nos.	879.00	Each	17580.00
4	Providing and fixing of following size Chlorinated Polyvinyl Chloride (CPVC) Pipe having pressure rating of 10kg, including all CPVC plain fittings i/c including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.and cutting the wall and making good the same upto 50 ft. Height etc. complete as required.					
4.1	25mm dia	35	Mtr.	456.00	P/Mtr.	15960.00
4.2	32mm dia	20	Mtr.	757.00	P/Mtr.	15140.00
4.3	50mm dia	10	Mtr.	1757.00	P/Mtr.	17570.00
5	Providing and fixing of following size chlorinated Polyvinyl Chloride (CPVC) Ball valve in the existing pipe line with suitable solvent and testing of joints complete as per direction of Engineer in Charge.					
5.1	25mm dia	5	Nos.	308.00	Each	1540.00
5.2	32mm dia	5	Nos.	458.00	Each	2290.00
5.3	50mm dia	2	Nos.	1481.00	Each	2962.00
	Total Sub Head VII					1496990.00
	SH-VIII (Less Dismantled Items)					
1	Credit the cost of dismantled unserviceable materials received from this work with labour charge of dismantling					
1.1	6-32A MCB/Isolator	500	Nos.	5.00	Each	2500.00
1.2	5/6 amps/15/16 amps/3 pin 5/6 amps/6 pin 15/16 amps/bell push/Fan regulator/Telephone Socket /Modular switch/Socket/Piano Type/Ceiling rose	2100	Nos.	0.50	Each	1050.00
1.3	1/2 module/3 module/G.I Box	100	Nos.	5.00	Each	500.00
1.4	6 module/8 module//12 module/G.I Box	120	Nos.	6.00	Each	720.00
1.5	3/4 Pole MCCB 125/250/400/630	15	Nos.	50.00	Each	750.00
1.6	40A/63A 2 pole isolator/40A/63A/4 pole isolator	50	Nos.	5.00	Each	250.00
1.7	Different size Cu/Al wire	20	Kg	200.00	P/Kg	4000.00
1.8	Different size ceiling fan/Matel exhaust Fan	100	Nos.	200.00	Each	20000.00
1.9	Different size water heaters/Geyser	100	Nos.	500.00	Each	50000.00
1.10	Different size PVC body/Exhaust Fan/Wall fan	70	Nos.	200.00	Each	14000.00
1.11	LED Batten light/Down lighter/Bulk head	400	Nos.	20.00	Each	8000.00
1.12	2x2 Panel light	50	Nos.	25.00	Each	1250.00
1.13	Insect killer	10	Nos.	250.00	Each	2500.00
1.14	Different size DB horizontal SPN	5	Nos.	50.00	Each	250.00
1.15	Different size TPN DB	10	Nos.	60.00	Each	600.00

1.16	Different size MS/GI Pipe	50	Kg	35.00	P/Kg	1750.00
1.17	Internal/external hydrant/branch	15	Nos.	500.00	Each	7500.00
1.18	Different size type valve	40	Nos.	100.00	Each	4000.00
1.19	Sprinkler	200	Nos.	5.00	Each	1000.00
1.20	Pressure gauges/switch/detector/call box	250	Nos.	5.00	Each	1250.00
	Total Sub Head VIII					-1,21,870.00
	Total of All Sub Head (Annexure-A) (I to VII) - (SH:VIII)					3,05,38,975/-

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Executive Engineer (E)
RML Hospital Electrical Division,
CPWD, New Delhi.

Assistant Engineer (P) (E)
DC-9, CPWD,
IP Bhawan, New Delhi.

Superintending Engineer
DC-9, CPWD,
IP Bhawan, New Delhi.

PART - C

(CIVIL WORK)

PROFORMA OF SCHEDULES

(Separate Performa for Civil, Elect. & Hort. Works in case of Composite Tenders)

PROFORMA OF SCHEDULES FOR CIVIL WORKS (Minor Component)

SCHEDULE 'A'				
Schedule of Quantities		CIVIL		Attached
SCHEDULE - B				
Schedule of materials to be issued to the contractor:			NIL	
SCHEDULE - C				
Tools and plants to be hired to the contractor:			NIL	
SCHEDULE 'D'				
Extra schedule for specific requirements/documents for the work, if any:			NIL	
SCHEDULE 'E'				
Reference to General Conditions of contract: -		General Conditions of Contract (GCC)- Maintenance Work - 2023 (as amended/modified upto the previous day to last date of submission of bid)		
Name of Work:		A/R & M/O Various Electrical and mechanical service of New Doctor's Hostel at ABVIMS at Dr. RML Hospital New Delhi during 2026-27. (Electrical Work & Civil Work).		
Estimated cost of work:		As per Schedule A to F of Part-A		
(i)	Earnest money:	As per Schedule A to F of Part-A		
(ii)	Performance Guarantee:	As per Schedule A to F of Part-A		
(iii)	Security Deposit:	As per Schedule A to F of Part-A		
SCHEDULE 'F'				
General Rules & Directions:				
Officer inviting tender:		As per Schedule A to F of Part-A		
Definitions:				
2 (vi)	Engineer-in-Charge	(i)	E&M work	As per Schedule A to F of Part-A
		(ii)	Civil work	As per Schedule A to F of Part-A
2 (viii)	Accepting Authority	As per Schedule A to F of Part-A		
2 (x)	Percentage on cost of materials and labour to cover all overheads and profits.	As per Schedule A to F of Part-A		
2 (xi)	Standard Schedule of Rates	(A) Delhi Schedule of Rates 2023 (as amended/modified upto the previous day to last date of submission of bid) (B) Applicable Minimum Wages Rate w.e.f. 01.04.2026		

2 (xii)	Department	As per Schedule A to F of Part-A	
8 (ii)a	Standard CPWD contract form	As per Schedule A to F of Part-A	
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, in days.		As per Schedule A to F of Part-A	
Maximum allowable extension with late fee @ 0.1% per day of performance guarantee amount beyond the period as provided in (i) above.		As per Schedule A to F of Part-A	
Clause 2			
Authority for fixing compensation under clause - 2		As per Schedule A to F of Part-A	
Clause 2A			
Whether Clause 2A shall be applicable		As per Schedule A to F of Part-A	
Clause 5			
Number of days from the date of issue of letter of acceptance for reckoning date of start:		As per Schedule A to F of Part-A	
Milestone(s) as per table given below:			
Sl. No.	Description of Milestone (Physical)	Time allowed in days (From date of start)	Amount to be with-held in case of non-achievement of milestone.
----- Not applicable -----			
Time allowed for execution of work:		As per Schedule A to F of Part-A	
Authority to decide:			
(i)	Authority to convey the decision of shifting of milestone and extension of time	As per Schedule A to F of Part-A	
(ii)	Authority to decide rescheduling of milestone and extension of time	As per Schedule A to F of Part-A	
(iii)	Shifting of date of start in case of delay in handing over of site	As per Schedule A to F of Part-A	
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 (LOI)

Part A	Portion without any hindrance	All	As per LOI
Part B	Portions with encumbrances	Nil	Not applicable
Part C	Portions dependent on work of other agencies	Nil	Not applicable
Clause 5A			
Whether Clause 5A shall be applicable		As per Schedule A to F of Part-A	
Clause 6			
Computerised Measurement Book (CMB) / Electronic Measurement Book (EMB)		As per Schedule A to F of Part-A	
Clause 7			
Gross work to be done together with net payment /adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment		(i) 1st RA Bill- 10 Lakh (ii) Subsequent RA Bill - 10 Lakh (iii) Final Bill - Any Amount (iv) For other then as mentioned above with prior approval of Engineer-in-Charge	
Clause 7A			
Whether Clause 7A shall be applicable		As per Schedule A to F of Part-A	
Clause 7B			
Whether Clause 7B shall be applicable		As per Schedule A to F of Part-A	
Clause 8			
Competent Authorities to inspect and issue completion certificate		As per Schedule A to F of Part-A	
Clause 10A		Yes	
List of testing equipment to be provided by the contractor at site lab.		As per Schedule A to F of Part-A	
Clause 10C Component of labour expressed as percent of value of work	For SOQ Item Nos. ** to **	75%	
	For Other Remaining Items of SOQ	25%	
Clause 10CC			
Whether Clause 10CC shall be applicable		As per Schedule A to F of Part-A	
Clause 11		Specifications to be followed for execution of work	
		CPWD Specifications 2019 – Vol 1 & 2 (as amended/modified upto the previous day to last date of submission of bid)	

Clause 12	
Type of work	As per Schedule A to F of Part-A
Authority to decide	
Deviation in tendered amount up to 1.25 times of tendered amount.	As per Schedule A to F of Part-A
Deviation in tendered amount beyond 1.25 times upto 1.50 times of tendered amount	As per Schedule A to F of Part-A
Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for building work	As per Schedule A to F of Part-A
Clause 16	
Competent Authority for deciding reduced rates.	As per Schedule A to F of Part-A
Clause 18	
List of mandatory machinery, tools & plants to be deployed by the contractor at site	As per Schedule A to F of Part-A
Clause 19C	
Authority to decide penalty for each default	As per Schedule A to F of Part-A
Clause 19D	
Authority to decide penalty for each default	As per Schedule A to F of Part-A
Clause 19G	
Authority to decide penalty for each default	As per Schedule A to F of Part-A
Clause 19K	
Authority to decide penalty for each default	As per Schedule A to F of Part-A
Clause 25	
(i) Conciliator	As per Schedule A to F of Part-A
(ii) Arbitrator Appointing Authority	As per Schedule A to F of Part-A
(iii) Place of Arbitration	As per Schedule A to F of Part-A
Clause 32	
Requirement of Technical Representative(s) & recovery Rate:	As per Schedule A to F of Part-A
Clause 38	As per Schedule A to F of Part-A

GENERAL CONDITIONS

1. The work shall be carried out as per CPWD Specifications 2019 Vol I & II with upto date correction slip to the date of receipt of tender. Where CPWD Specifications are silent, relevant B.I.S. Codes shall be applicable. If the item is not available in the relevant B.I.S. Codes, then the decision of the Engineer-in-charge shall be final.
2. The contractor has to make his own arrangement for all the materials required for the work and get them approved from the Engineer-in-charge before using the same in the work.
3. The dismantling wherever required shall be done in a manner that no other portions of the building or its fixtures are damaged. If any damage is done to the building it will be made good by the contractor at his own cost and no claim what so ever will be entertained on the work.
4. **The contractor must get himself acquainted with the proposed site for the works and study specifications and conditions carefully before tendering, no claim whatsoever on this account shall be entertained later on.**
5. The work shall be carried out complying in all respects with the requirement of relevant bylaws of the N.D.M.C. or any other local body.
6. All incidental charges of any kind for the materials to be arranged by the contractor whatsoever including cartage, storage, cutting and wastage etc. shall be borne by the contractor himself and nothing extra will be paid to him on this account.
7. The contractor shall have to carry out the work according to the programme mutually decided between him and the Engineer-in-charge of the work. No claim for idle-labour on any account shall be entertained.
8. Necessary recoveries such as water charges, Income Tax, GST, Labour Welfare Cess etc. as per applicable rate shall be made from the any amount due to the contractor.
9. **The quantities of items should not be executed beyond the agreement quantities without prior permission of the Engineer-in-Charge.**
10. Contractor will have to make his own arrangement for tools and plant & machinery required for the work and department will not supply any tools and plants.
11. The contractor should study the General Conditions of Contract before tendering. This shall be the part of the agreement. It is available in the office of EE/AE & in market.
12. Testing charges shall be borne by the contractor in all cases. All expenditure to be incurred for testing of samples e.g. packing, sealing, transportation, loading, unloading etc. including testing charges shall be borne by the contractor, for the testing from the laboratories approved by ADG/SDG time to time.
13. Any damages done to the electric fittings, installations, while using them shall be made good by him at his own cost.
14. **Dr. RML Hospital is facing space crunch as of now due to some big construction activities going on and also due to heavy patient rush. Accordingly, agency has to make their own arrangements for stay of their workers and for the construction of the store also, outside the Hospital complex. Agency shall quote their rates keeping in mind the said situation. Nothing extra shall be paid over and above the quoted rates.**
15. The rates include all leads, lifts, heights etc. No extra payment shall be made on any account.
16. **If contractor uses electricity of department, a recovery @ 0.5% shall be made on gross bill amount from each bill. If no electricity is required, then no recovery shall be made on this account.**
17. Site may be made available in parts. The contractor shall start the work within 72 hours from the time the instructions to execute the work are given through site order book/letter/ or otherwise.

18. Agency shall be fully responsible for watch and ward of site, fittings etc. till the work is completed and accepted/taken over by the department. Nothing extra shall be paid for same.
19. The contractor shall make his own arrangement of water required for the work as per clause 31 of the general conditions of the contract for CPWD works and clause 31A of the said conditions stands deleted. However, 1% (one percent) water charges shall be recovered on the gross amount of bill from the contractor, if government water is used.
20. Other agencies working at site may also simultaneously execute the work entrusted to them and the contractor shall offer necessary co-operation wherever required to other agencies.
21. The Contractor's Engineers should present at the site on all working days or as working hours allowed by Engineer-in-charge shall carry mobile phones to enable the Engineer-in-charge to have proper communication with them. Nothing extra shall be paid to the contractor on this account and his quoted rates for various items under this contract will be inclusive of this obligation.
22. The contractor shall make all safety arrangement required for the labour engaged by him at his own cost. All consequences due to negligence or due to lapse of security/safety or otherwise shall remain with the contractor. The department shall not be responsible for any mishap, injury, accident or death of the contractor's staff and/or labour. The contractor shall adhere to CPWD Safety Code as given in GCC 2020 for Maintenance Works. No claim whatsoever in this regard shall be entertained/accepted by the department.
23. It shall be deemed that contractor has satisfied himself about the nature and location of the work, general and local conditions, particularly those pertaining to transport, handling and storage of materials, general ground conditions and highest flood level etc. before Biding. The department shall not be responsible for lack of such knowledge and also the consequences thereof. The information and site data shown in the drawings and mentioned herein and elsewhere in the bid document are being furnished for general information and guidance only. The Engineer-in-Charge shall in no case be responsible for the accuracy there of or any interpretations/or conclusions drawn there from by the contractor and nothing extra shall be paid even if the site conditions/information are different or otherwise incorrect at it is presumed that the contractor has satisfied himself for all possible contingencies, situations, bottlenecks and acts of coordination which may be required between different agencies.
24. The contractor must study the specifications and conditions carefully before Biding. If there are varying or conflicting provisions made in any documents forming part of the contract, the Engineer-in-charge shall be the deciding authority with regard to the intention/interpretation of the documents and it will be binding on the contractor without any reservation whatsoever and nothing extra shall be paid. Any error in description, quantity or rate in schedule of work bills of quantities/item of any omissions there from shall not vitiate the contract or release the contractor from the execution of the whole work or any part of the work comprised there in according to drawing and specifications or from any of his obligations under the contract.
25. All materials, T & P, consumable and contingent articles required for the work shall be arranged by the contractor. Materials used shall be in preference as per the nomenclature of the item / as per approved list / CPWD Specifications and as per directions of Engineer-in-Charge. Replaced materials used shall have same or richer specifications to the original materials and compatible to the work. If any of the accessories available in the market is not ISI marked then decision of Engineer-in-charge is final and will be binding to the contractor.
26. All the malba /rubbish /silt /waste / garden waste etc. generated due to any operation / execution of the work shall be brought down through the stair case and shall not be thrown to the ground directly from the upper floors etc. Malba rubbish generated due to any operation from premises and their open spaces whatsoever shall be disposed off on daily basis by the Contractor to the specified common dumping point at site which shall be disposed off on same day by the

Contractor to the authorized municipal dhalao / dumping ground and nothing extra shall be paid on this account. The dumping point should be properly barricaded at all the time and should not give ugly look. The Malba/rubbish kept inside the dumping point should be covered with sheet or any other suitable material to avoid dust pollution. In case of non-removal/disposal in the specified period, a recovery of Rs. 1000/- (Rupees One Thousand) per day shall be recovered from the Contractor after issuing notice in writing by the Engineer in charge of work. If the malba is not removed within three days of notice, the same shall be got removed by the department at the risk and cost of the Contractor and the amount shall be recovered from the bill of Contractor. This is in addition to the recovery of Rs. 1000/- per day for delay in removal of malba.

27. The contractor or his authorized representative should always be available at the site of work to take instructions from the departmental officers, and ensure proper execution of work.
28. Chases, holes & drilling works etc. shall be done by using power operated tools.
29. The contractor shall have to carry out the work other than day to day maintenance according to program given by the Executive Engineer / Assistant Engineer / Junior Engineer-in-charge. The contractor shall not carry out any work in any building without permission of Engineer-in-charge or his authorized representatives. The contractor shall have to adhere to this program failing which he shall be wholly responsible for any inconvenience caused to the occupants. No claim for idle labour on any account shall be entertained. The contractor shall depute his representative daily to the site of work. His name and signature shall be attested by the contractor for record in the department.
30. The site of work is located in the ABVIMS Bldg. under RML Hospital Complex and the Bidders are advised to carefully examine the same from the view point of storage of material, steel yard, labour huts movement of labours etc. before Bidding as no space is available for storing material and labour huts inside the campus.
31. The site for the collection and stacking of the material shall be got approved from the Engineer-in-charge.
32. The sample of all the items shall have to be got approved by the contractor from the Engineer-in-charge before the supply commences and shall be without prejudiced to the right of the Engineer-in-Charge to get random samples tested out of the actual lot received.
33. The Engineer-in-Charge will be at liberty to take respective sample(s) of each item of Schedule of Quantity in any approved laboratory as decided by him. The sample for testing will be provided by the contractor. All expenditure required to be incurred for taking sample, conveyance, packing and testing charges etc. will be borne by the contractor himself. In case any sample particular lot fails in testing, the contractor will be bound to replace the entire lot with fresh removal of prescribed specification and the rejected lot will be returned to the contractor only after fresh lot is supplied.
34. Removal of rejected materials: In case any materials/Substandard work are rejected by the Engineer- in-Charge, the same shall be removed from the site within 48 hours, failing which the same may be got removed by the Engineer-in-charge at the risk and cost of the contractor. The decision of the Engineer-in-charge shall be final and binding in this regard.
35. In case of any dispute regarding rejection of quality of materials, the decision of the Engineer-in-Charge will be final and binding upon the contractor.
36. Other agencies may also be simultaneously executing some other work entrusted to them by the Engineer-in-charge and the Contractor shall offer necessary co-operation wherever required to these agencies so as not to interfere with or hinder the progress or completion of the work being performed by other Contractor (s). He shall as far as possibly arrange his work and shall place and dispose off the materials being used or removed, so as not to interfere with the operations of other Contractors, or he shall arrange his work with that of the others in an acceptable and

coordinated manner. The contractor shall leave such recesses, holes, openings etc. as may be required for the wet risers, air conditioning lift and other related works etc and shall perform it in proper sequence to the complete satisfaction of Engineer-in-charge.

37. Operations in which assistance shall be provided by the agency to the CPWD:

- a) Informing to the CPWD engineers regarding the failure in any service being provided by other departments, in so far as they affect the assets being maintained under this contract, so that they can be taken up with the concerned local body / department for rectification.
- b) Assisting the department in detection of unauthorized encroachments in the area being maintained.

38. All taxes applicable at prevalent rates shall have to be paid by the contractor himself and the rates quoted by him shall include these taxes and nothing extra on this account shall be payable.

39. The rates for different items of work shall apply for all heights and depths, leads and lifts including all labour & materials and other aspects involved in the execution of work unless otherwise specified in the agreement or specifications applicable to the agreement.

40. Any damage done by the contractor to any existing work during the course of execution of the work shall be made good by him at his own cost.

41. Articles manufactured by the reputed firms and approved by Engineer-in-Charge shall only be used. Only articles classified, as 'first quality' by the manufacturer shall be used unless otherwise specified. In case articles bearing ISI certification are not available in the market, quality of samples brought by the contractor shall be judged by standards laid down in the relevant CPWD specifications. For the items not covered by CPWD specifications relevant BIS standards shall apply. The sample of materials to be brought to site for use in work shall be got approved from the Engineer-in-Charge before actual execution of work.

42. The quantities of any item shall not be exceeded beyond the agreement quantities without prior permission of Engineer-in-Charge.

43. Statutory applicable recoveries such as on account of GST, Income tax, Construction Worker's Welfare cess etc. as applicable from time to time shall be made from the gross amount of Running A/c Bill and Final Bill of the contractor.

44. The contractor shall make his own arrangement for getting the permission for entry of trucks carrying materials for the site from the traffic police.

45. No payment shall be made to the contractor for any damage caused by rain, snow fall, floods or any other natural causes whatsoever during the execution of work. The damage caused to work shall have to be made good by the contractor at his own cost and no claim on this account shall be entertained.

46. The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards / signages, warning boards, red flags, red lights and providing necessary barriers / barricading of the construction, work area and all other measures required from time to time. He shall be responsible for all damages and accidents caused due to negligence on his part. No hindrance shall be caused to traffic during the execution of the work by storing materials on the road.

47. The contractor shall be fully responsible for the safe custody of the material issued or brought by him to site for doing the work.

48. If due to exigency of work, the work is required to be carried out in more than one shift or during night then Contractor will be bound to execute the work accordingly and arrange the T & P and labour etc. No extra claim on this account shall be entertained.

49. Any reference made to any Indian Standard Specifications in these documents, 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 of relevant Indian Standards applicable to the work at site.

- 50 The contractor will not have any claim for extra in case of any delay by the Engineer-in-Charge in removal of trees or shifting, removing of telegraph, telephone or electric lines (overhead or underground), water and sewer lines and other structure etc., if any which may come in the way of the work. However, suitable extension of time can be granted to cover such delay.
- 51 The contractor shall clean the site thoroughly of scaffolding materials, rubbish, equipment's left out of his work and dress the site around the building to the complete satisfaction of the Engineer-in-charge before the work is treated as completed.
- 52 The contractor shall comply with proper and legal orders and directions of the local or public authority or municipality and abide by their rules and regulations and pay all fee and charges which may be liable. The contractor shall give due notices to municipality police and /or other authorities that may be required under the law/rules in force the area and obtain all requisites licenses for temporary obstructions/enclosures and pay all charges which may be leviable on account of his execution of the work under the Agreement. Nothing shall be payable on this account.
- 53 Contractor has to provide drinking water facility in enquiry office by providing necessary filter (RO) with water cooler for staff.
- 54 The Contractor shall give due notices to Municipality, Police and/ or other authorities that may be required under the law/ rules under force and obtain all requisite licenses for temporary obstructions/ enclosures and pay all charges which may be leviable on account of his execution of the work under the agreement. Nothing extra shall be payable on this account.
- 55 The work shall be carried out in a manner complying in all respects with the requirements of relevant bye laws of the local bodies, labour laws, minimum wages act, workmen compensation act and other statutory laws enacted by Central Govt. as well as State Govt.
- 56 The contractor shall depute Engineers for Civil and Electrical Works as per the provision mentioned in schedule F.
- 57 The Contractor shall depute required Technical Staff each for civil and electrical works as per Clause 32 of Schedule 'F'. The agency shall submit the credential of proposed staff & shall be taken on roll only after approval of Engineer-in-charge. The attendance shall be accepted through Face Recognition Biometric Attendance System.
- 58 The contractor shall provide necessary barriers, warning signals and other safety measures while executing the work or wherever necessary so as to avoid accidents. He shall also indemnify CPWD against claims for compensation arising out of negligence in this respect. Contractor shall be liable, in accordance with the Indian law and Regulations for any accidents occurring due to any cause. The contractor shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the contractor due to the above provisions thereof.
- 59 Any damage caused due to negligence of contractor during the routine maintenance shall be of firm's responsibility. The firm has to make good the same at his own risk and cost.
- 60 The contractor will arrange & store all the materials at Enquiry office required for attending day to day maintenance complaints as decided by Engineer-in-Charge, throughout agreement period. A material at site (MAS) Account Register shall be maintained by the contractor for materials brought at site & used in day-to-day maintenance work. The MAS Account Register shall be kept at service centre along with relevant bill / invoices of materials brought at site so that officers of CPWD can review the quantity and quality of material present in store. This MAS Account Register shall be the property of Engineer-in-Charge after the completion of work.
- 61 This contract includes providing the Emergency Services whenever required after normal working hours; no extra charge will be entertained for attending such complaints.

- 62 The Contractor will carry out preventive maintenance / Checks as per CPWD Specifications / respective Standard trade practice and as per direction of Engineer-in-Charge. The result of such tests will be recorded in proforma as decided by the Engineer-in-Charge.
- 63 No vegetation shall be allowed to grow on walls, roofs, staircase, chajjas etc.
- 64 The labour deployed for attending complaints should carry necessary tool kit for civil work, container (Tasla), required for mixing any cement sand or other material and should carry with them water bottle and waste bag for collection of minor rubbish material if received during attending the complaints, so that the site of work shall remain neat and clean.
- 65 The Contractor shall submit measurement of work section wise to each Junior Engineer (Civil). However, the measurement shall be compiled by the Nodal Assistant Engineer (Civil) for preparation of running Account Bill.
- 66 In order to adhere to the Committed Program and requirement of client department, the work shall be carried out in more than one shift and Contractor will deploy the resources accordingly. No extra claim on this account shall be entertained. Contractor should give advance notice in writing to Engineer-in-charge for doing any work in odd hours and arrange permission accordingly
- 67 All the complaint registers, log books, MAS, Task Register, workers diary, test result registers or any other record shall be supplied by the contractor, maintained by the staff of the contractor and handed over to the department on the completion/ termination of the contract or duly filled up the register.
- 68 The contractor or his representative is bound to sign the site order book as and when required by the Engineer-in-Charge and to comply with the remarks therein.
- 69 It shall be the responsibility of the agency to transport all the items required for comprehensive maintenance from store and to carry dismantled material from site to store and nothing extra shall be paid on this account.
- 70 The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants of adjacent properties and to the public in general and to prevent any damage to such properties and any pollution of smoke, streams and waterways. He shall make good at his cost and to the satisfaction of the Engineer-in-Charge, any damage to roads, paths, cross drainage works or public or private property whatsoever caused by the execution of the work or by traffic brought thereon by the contractor. 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.
- 71 If for any reason, any part of the site is not available temporarily for some time for part of the work under the contract, the agreed construction schedule shall be suitably modified and contractor shall diligently divert his men and materials to utilize them profitably and no claim of damages whatsoever shall be entertained on this account. However, the contractor shall be allowed extension of time for completion the work as deemed fit by the competent authority.
- 72 The contractor shall be responsible for the watch and ward of the building, 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 installation and thereafter till the building is physical completed and handed over. **NO EXTRA PAYMENT SHALL BE MADE ON THIS ACCOUNT.**
- 73 Contractor shall ensure the availability of materials at site duly tested as per specifications and approved by the Engineer-in-Charge. In no case the dismantling etc. should be carried out before approved materials is brought to site. If contractor fails to follow instructions a penalty of Rs. 200/- per day for this fault shall be recovered. The decision of Engineer-in-Charge shall be final and binding.

- 74 The contractor shall at his risk and cost, make all arrangements and provide all facilities as per Engineer-in-Charge may require for collecting and preparing the require number of samples for such test at such time and to such place or places as may be directed by the Engineer in charge and bear all charge.
- 75 It shall be duty of the contractor to ensure the disbursement of wages through bank account of labour and obtain from the JE or any other authorized representatives of the Engineer-in-Charge as case may be certificate under his signature at the end of the entries in “Register of Wages” or Wages cum Muster Roll”.**
- 76 It is mandatory to maintain the pictorial video graphical record before commencement of the work during the execution of work and after completion of the work. The pictorial evidence of the sequence of the work to be submitted along with the running bill and final bill.**

Executive Engineer
Dr. RML Hospital Division
CPWD, New Delhi

ADDITIONAL CONDITIONS

1. **Inspection of materials and work:** All the materials brought to the site by the contractor for use in the work as well as fabricated work shall be subject to inspection and approval by the Engineer-in-charge.
2. **Removal of rejected materials:** In case any materials are rejected by the Engineer-in-Charge, the same shall be removed from the site within 48 hours, failing which the same may be got removed by the Engineer-in-charge at the risk and cost of the contractor.
3. **Manufacturer's Test Certificate:** The contractor shall produce Manufacturer's Test Certificate for material supplied by him & for use in work at site. The test(s) shall be carried out as per relevant specifications/ BIS Code as directed by Engineer-in-charge.
4. Contractor should ensure the availability of material at site duly tested as per specifications and approved by the Engineer-in-charge. Dismantling etc. shall not be carried out before the availability of approved material at site. The decision of Engineer-in-Charge shall be final and binding.
5. Area such as corridor, rooms etc. are to be should be cleaned every day. Wherever the malba / rubbish occurs on account of work at upper floors / roof, the same shall be brought down through stair case or with some mechanical arrangement only and shall not be thrown to the ground directly from upper floors and has to be disposed off at specified dumping point in the area. In no case malba / rubbish / unserviceable material or Construction material shall be stacked or dumped near the staircase / path /road berms / road / lawn / outside premises even for temporarily purpose. **The contractor shall have to make all the arrangement for Carriage, stacking and disposal of malba/dismantled unserviceable at the specific location in the hospital campus at his own cost. Nothing extra shall be paid for placing the malba at specific approved point, even for lead exceeding 50 metre & lift exceeding 1.5 Metre, as specified in the item.**
6. If the contractor fails to comply the above conditions for removal / disposal of malba, a fine of Rs.500/- for each fault per day shall be recovered from the contractor. The department may remove the malba so generated and dumped, by issue a notice or instruction through site order book at the risk and cost of the contractor. (In this case, item for disposal of malba at approved municipal ground shall not be paid).
7. No claim / dispute shall be entertained on the conditions at any stage either during execution of work or after completion of work and decision of the Engineer-in-charge shall be final and binding.
8. Unless and until specified in the item the contractor shall make his own arrangement for lifting / hoisting / placing of steel girders / steel sections by suitable arrangement either manually or by mechanical crane etc. as approved by the Engineer-in-charge upto all heights in the building at no extra cost.
9. The contractor shall stack the building materials away from the building at site as approved by the Engineer-in-charge and nothing extra for lead / lift of material for bringing the materials manually in the premises shall be paid.
10. During execution of work the agency may have to dismantle certain existing items of the work other than taken in schedule of quantity. This dismantled material received during demolition, if not taken back by the Department, shall be recovered at the rates as follows: -
 - a) Wooden window/doors/shutters with or without frames shall be recovered @ Rs.200/- per Sqm except M.S. bars.
 - b) Sectional windows / steel door windows / C.I / G.I. Pipes etc. at Rs. 30/- per Kg.
Old C.I. flushing cistern including fittings at Rs. 250/- per cistern & CP Brass/Brass etc. & the like similar material @ 350/-.

- c) Aluminium sections, tees, angles, channels etc. at Rs. 160/- per kg.
 d) Plyboards / flushing cistern & other PVC materials etc. Rs. 12/- per kg by weight.
 The decision of Engineer in charge for dismantled materials to be taken back & for mode of payment & for recovery etc. shall be final and binding.
11. The contractor shall at his own cost make arrangement for weighing of the dismantled materials at site of work.
12. The dismantled bricks, brick tile and red sand stone shall be accounted for recovery from the contractor at rate described below:-

S. No.	Item	Cement mortar	Mud mortar	Recovery rate
1	Bricks	297 nos. or actual quantity whichever is more in one cum of brick work dismantled	371 nos. or actual quantity which ever more in one cum of brick work dismantled	Rs. 3500/- per thousand.
2	Brick tiles	228 nos. or actual quantity whichever is more per ten sqm area dismantled		Rs. 3500/- per thousand.
3	Red sand stone of any thickness	60% of area dismantled or actual quantity which ever more		Rs. 150/- per sqm.

13. Before starting the work the contractor shall chalk out a programme in consultation with the Junior Engineer /Assistant Engineer-In-charge as to inform the occupants at least one week ahead. The contractor shall have to adhere to this programme failing which contractor shall be responsible for any inconvenience caused to the occupants. In order to ensure that the work is carried out according to the programme drawn up the contractor shall ensure adequate supply of the material and employ required labour strength for execution of work. In case contractor fails to arrange / employ adequate labour to stick the programme, the Engineer-in-charge may supplement the labour and cost of the labour shall be recovered from the contractor after issue of one day's notice to the contractor. No claim for idle labour shall be entertained. The contractor shall depute his representatives daily at site of work for the record of the department.
14. The contractor shall prepare one sample of all items which should be got approved from the Engineer-in-charge. Only on acceptance of sample work, contractor will be allowed to commence the work and sample is to be preserved by contractor till the whole work is completed. The quality of work should be confirmed to the approved samples.
15. The contractor shall note that the items of work in any room shall be undertaken at one time, one after the other and completed at one stretch in time allowed for the same by the Engineer-in-charge.
16. The contractor and/or his authorized representative should see the site order book every day and get the compliance noted by the J.E. /A.E. / Engineer-in-charge.
17. The rooms/sites where the work is to be executed on any day shall be got approved from the representatives of the Engineer-in-charge at the site of work. No work shall be carried out in any room/site without the approval of the representative of the Engineer at the site of work. Such work carried out without the approval of the representative of the work shall be rejected and will not be measured and paid for.
18. The substandard work shall be rejected out-rightly. The decision of the Engineer-in-charge shall be final and binding in this regard.
19. Nothing extra shall be paid to the contractor for excess consumption of materials in case of material arranged by him.
20. Any damages done to the existing structure shall be made good by the contractor at his own risk and cost.

21. The rates of all items of work shall unless clearly specified include the cost of all labour, material and other aspects involved in the execution of work.
22. Due to security reason the contractor shall have to arrange timetable of labour according to the security staff and Engineer-in-charge instructions. The contractor should see the site before the execution of work.
23. The contractor shall make his own arrangement for getting the permission to ply the trucks from the traffic police.
24. Passes shall be arranged by the department for inside the building only.
25. The contractor shall be responsible for behavior and conduct of his workers. No worker with doubtful integrity or having a bad record shall be engaged by the contractor.
26. The contractor shall have to remove all splashes after completing the work. In case the splashes are not removed by the contractor the same shall be got removed by the Engineer-in-charge and necessary recovery for the cost of removal of splashes shall be made from the contractor.
27. The work shall be carried out in the manner complying in all respects with the requirement of relevant bye-laws of the local bodies under the jurisdiction of which the work is to be executed and nothing extra shall be paid on this account.
28. For completing the work in time, the contractor might be required to work in two or more shifts including night shifts and no claim 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 regulation and the agreement entered upon and/or extra amount for any other reason.
29. The contractor must take adequate precautions to ensure that no spillage of construction material/malba/building rubbish takes place on to the carriageway. Failure to observe this will make the contractor liable to pay compensation @ Rs. 100/- (Rs. One Hundred only) per day, per metre length of each carriage way as affected by spillover of any construction material, subject to a maximum of 5% (Five percent) of the estimated cost of the work put to the tender. The decision of Engineer-in-charge in this regard, shall be final and binding on the contractor.
30. The temporary warning lamps shall be installed at all barricades during the hours of darkness and kept lit at all times during these hours.
31. The malba/rubbish shall be disposed of by mechanical transport to the approved municipal dumping ground for which payment shall be made as per item in the agreement. The lead specified in the agreement is indicative only. The rate to be quoted by the agency /contractor for disposal upto the approved municipal dumping ground shall be inclusive of all and nothing extra over and above the agreement item(s) shall be paid. If the quantum, of malba, so generated from the work is less than one truck load, the same shall have to be collected in wheel barrow /Trolley and shall be dumped at the specified dumping point, approved by the Engineer in-charge, in the area and the same should be lifted as soon the one truck load is collected or within three days whichever is earlier. **Malba is to be disposed at nearest approved MCD dumping ground by mechanical transport as per direction of Engineer-in-charge. Payment will be made on production of MCD receipt.**
32. **Water Proofing Work:**
The tenderer shall associate specialized agencies for water proofing work, who have satisfactorily completed three water proofing works of similar nature of each costing not less than 40% of tendered amount of corresponding water proofing item, or two water proofing works of similar nature each costing not less than 60% of tendered amount of corresponding water proofing item or one similar work costing not less than 80% of tendered amount of corresponding water proofing item; during the last seven years ending last day of the month previous to the one in which tenders are invited. The value of executed works shall be brought to

current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to previous day of last day of submission of tenders.

However, the main contractor shall also be eligible to carry out himself the water proofing works without associating any specialized agency provided they fulfil the above prescribed eligibility criteria.

GUARANTEE BOND: Five years guarantee bond in prescribed proforma for water proofing item, herewith shall be submitted by the contractor which shall also be signed by the contractor to meet their liability/liabilities under the guarantee bond.

10% of total cost of water proofing item (excluding cost of external plaster on masonry, if water proofing compound added in external plaster also) shall be retained as additional security deposit and the amount so withheld would be released after ten years from the date of completion of the entire work under the agreement. If the performance of the work done is found unsatisfactory and any defects noticed during the guarantee period, they shall be rectified by the agency within 10 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 the agency. However, the security deposit deducted may be released in full against bank guarantee of equivalent amount in favour of Engineer in charge, if so, decided by the Engineer-in-charge. The security deposit against this item of work shall be in addition to the security deposit mentioned elsewhere in contract form.

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SPECIAL CONDITIONS OF PAINT

1. Scrapping shall be shown to the Assistant Engineer and got approved and test checked by him, prior to application of priming and putty on surface.
2. The contractor shall have to remove all splashes after completing each day's work. In case the splashes are not removed by the contractor the same shall be got removed by the Engineer-in-charge at contractor's risk & cost.
3. Material of following make/brand shall be used by the contractor and sample shall be got approved from the Engineer-in-charge.

a) **Synthetic Enamel Paint having VOC (Volatile Organic Compound) content less than 150 gm/litre**

	Name of the firm	Brand Name
(i)	Asian Paint	Apcolite Enamel
(ii)	Berger Paints	Luxol Hi – Gloss
(iii)	Kansai Nerolac Paint Ltd	Nerolac Synthetic Enamel High Gloss Finish
(iv)	ICI Paints	Dulux Gloss
(v)	Shalimar Paint	Superlac Hi-Gloss Enamel
(vi)	Aditya Birla	Opus Birla

b) **Premium Acrylic Smooth Exterior with Silicone additives paint.**

	Name of the firm	Brand Name
(i)	Asian Paint	Ultima Paint
(ii)	Berger Paints	Weather coat all guard
(iii)	Kansai Nerolac Paint Ltd	Excel Total
(iv)	ICI Paints	Weather Shield Max
(v)	Shalimar Paint	Xtra Maxima/Weather Pro ⁺
(vi)	Aditya Birla	Opus Birla

c) **Acrylic Distemper 1st Quality having VOC (Volatile Organic Compound) content less than 50 gm / litre**

	Name of the firm	Brand Name
(i)	Asian Paint	Premium Acrylic Distemper, Tractor
(ii)	Berger Paints	Berger Acrylic Distemper
(iii)	ICI Paints	Maxolite
(iv)	Kansa Nerolac Paints	Nerolac Beauty Acrylic Distemper
(v)	Shalimar Paint	No.1 Premium Acrylic Distemper
(vi)	Aditya Birla	Opus Birla

d) **Cement Primer**

	Name of the firm	Brand Name
(i)	ICI	Dulex Cement Primer

(ii)	Nerolac Cement Primer	Nerolac Cement Primer
(iii)	Asian	Deco Cement Primer
(iv)	Berger	Berger cement Primer
(v)	Aditya Birla	Opus Birla

e) **Water Proofing cement Paint**

	Name of the firm	Brand Name
(i)	M/s Berger Paints	Durocem
(ii)	M/s Asian Paints	Gattucem
(iii)	M/s Snowcem India Ltd.	Snowcem Plus
(iv)	M/s Jenson & Nickolsen	Robbiacem
(v)	Aditya Birla	Opus Birla

f) **Premium acrylic Emulsion paint Interior grade having VOC (Volatile organic Compound) less than 50gm/ltr.**

	Name of the firm	Brand Name
(i)	Asian	Premium Acrylic Emulsion
(ii)	Berger	Rangoli Acrylic Emulsion
(iii)	Nerolac	Beauty Gold Acrylic Emulsion
(iv)	ICI	Super Smooth
(v)	Shalimar Paint	Superlac Premium Acrylic Emulsion
(vi)	Aditya Birla	Opus Birla

g) **Luxury/ Superior acrylic Emulsion paint Interior grade having VOC (Volatile organic Compound) less than 50gm/ltr**

	Name of the firm	Brand Name
(i)	ICI	Velvet Touch
(ii)	Nerolac	24 Carot
(iii)	Asian Paint	Royal Shine
(iv)	Berger	Silk Luxury emulsion
(v)	Shalimar Paint	Hussain Collections/Signature/stay clean
(vi)	Aditya Birla	Opus Birla

h) **Cement Based Putty**

	Name of the firm	Brand Name
(i)	Birla	Birla Putty
(ii)	JK	JK Wall Putty
(iii)	Burger	Burger wall putty
(iv)	Aditya Birla	Opus Birla

Make/ Brand of any other material/ fitting not mentioned above shall also be got approved from Engineer-in-charge in advance before starting the work.

In case of material/fittings of make/brand other than mentioned above is to be used due to non-availability or any other reason permission will have to be obtained from Engineer-in-charge in writing.

The date of manufacturing and batch no. will be inscribed or printed on pack/containers by manufacturers are acceptable for all the above said materials. Fresh material shall be brought at site as far as possible and materials more than 6 months old from the date of manufacturing will be rejected.

The contractor shall have to get the shades/brands of all types of paints, distempers, water proofing cement paint etc. Approved from the Engineer-in-charge before procurement of materials.

4. The Co-efficient for working out theoretical consumption of paint items are as below (If it is not mentioned in items): -

(a) **Textured exterior paint.**

- (i) One or more coats on old work applied @ 1.82 ltr per 10 sqm.
- (ii) Two or more coats on new work applied @ 3.28 ltr per 10 sqm.

(b) **Water proofing cement paint.**

- (i) One or more coats on old work @ 2.20 kg per 10 sqm.
- (ii) Two or more coats on old work @ 3.84 kg. per 10 sqm.

(c) **Acrylic Emulsion having VOC (Volatile Organic Compound) less than 50gm/litre.**

- (i) One coat @ 0.53 ltrs. Per 10 sqm.
- (ii) Two coats @ 0.84 ltr. Per 10 sqm.

(d) **Premium Acrylic Emulsion having VOC (Volatile Organic Compound) less than 50gm/litre.**

- (i) One coat @ 0.38 ltrs. Per 10 sqm.
- (ii) Two coats @ 0.60 ltr. Per 10 sqm.

(e) **Acrylic Distemper 1st Quality having VOC (Volatile Organic Compound) content less than 50 gm / litre**

- (i) One coat @ 0.62 ltrs. Per 10 sqm.
- (ii) Two coats @ 0.99 ltr. Per 10 sqm.

(f) **Synthetic enamel paint having VOC (Volatile Organic Compound) content less than 150 gm/litre.**

- (i) One coat @ 0.53 ltrs. Per 10 sqm.
- (ii) Two coats @ 0.84 ltr. Per 10 sqm.

(g) Premium Acrylic Exterior paint

- (i) Two or more coats on old work applied @ 1.43 ltr per 10 sqm.
- (ii) One or more coats on old work applied @ 0.83 ltr per 10 sqm.

(h) Melamine paint

- (i) One or more coat on wooden doors/window @ 0.65 ltr per 10 sqm.
- (ii) Plastic Emulsion Paint One or more coat @ 0.73 ltr per 10 sqm.

(i) Groove painting with plastic emulsion paint

- (i) Plastic emulsion paint @ 0.027 ltr per 15 m.

(j) Painting with fire retardant paint

- (i) Painting with fire retardant paint @ 0.70 ltr. per 10 sqm.

5. Nothing extra shall be paid for excess consumption of material in case of material arranged by the contractor. In case of less consumption of material than theoretical requirement, the payment shall be restricted for the area covered theoretically with the quantity actually consumed provided the quality of work is acceptable.

70% quantity of the material like paint, distemper, Plastic emulsion paint, water proofing cement paint shall be brought in sealed containers & deposited with JE in charge before start of the painting work along with **original invoices of material**.

All empty containers received after use of Paints, distemper etc. in the work shall be kept at site store till completion of the work and shall not be allowed to be removed without permission of the Engineer-in-charge.

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PARTICULAR SPECIFICATIONS

1. The work, in general, shall be executed as per description of item, specifications attached, updated CPWD Specifications, MoRTH Specification with correction slips issued up to the date of receipt of tender and relevant BIS Codes, BSEN codes, ISO Codes & ASTM Codes.
2. All the works unless otherwise specified hereinafter or permitted by Engineer-in-charge shall be done in accordance with the latest editions of CPWD specification and relevant BIS Codes, BSEN codes, ISO Codes & ASTM Codes as on the date of receipt of tenders or any other specified code. Any additional standard specifications or criteria published by the BIS or other foreign standard and in practice upto the date of receipt of tenders shall also take into account. In the absence of any definite provisions on any particular issue in the above-mentioned specifications / relevant BIS Codes, BS, EN codes, ISO Codes & ASTM Codes, the design and construction shall be in conformity with the Sound Engineering Practice and in all such matters the decision of the Engineer-in-charge shall be final and binding on the contractor and nothing shall be paid extra.
3. In case of any discrepancy or contradiction amongst the specified standards the following order of preferences shall generally prevail.
 - i. Nomenclature of items etc. given in Schedule of Quantities.
 - ii. Particular Specifications, Special conditions and additional specifications if any.
 - iii. Drawings attached with the tender.
 - iv. CPWD Specifications, 2019 Vol. I & II with up-to-date correction slips.
 - v. MoRTH Specifications for Roads & Bridge works (Fifth revision) published by IRC.
 - vi. Relevant BIS Codes with the latest revisions.
 - vii. Relevant IRC Codes with the latest revisions.
 - viii. International standards such as BS, EN, ASTM etc. and accepted international practice as approved by Engineer-in-Charge.
 - ix. Sound Engineering Practice as per directions of the Engineer-in-Charge.

If there are varying or conflicting provision made in any document forming part of the contract, the Engineer-in-charge shall be the deciding authority with regard to the Intention / interpretation of the document and his decision shall be binding without any reservations.

4. The contractor shall ensure quality control measures on different aspects of construction materials, workmanship and correct construction methodologies to be adopted. He shall have to submit quality assurance programme within two weeks of the award of the work. The quality assurance programme should include method statement for various items of work to be executed along with check list to enforce quality control.
- 4.1 The contractor shall submit samples of brand / make of various materials to be used for the approval of the Engineer-in-Charge along with samples. All approved samples shall be displayed at the site office along with copy of the approvals.

- 4.2 The contractor shall submit shop drawings of staging and formwork arrangement etc. for the approval of Engineer-in-Charge. Unless stated otherwise, the rate for concrete in plain concrete or reinforced concrete or prestressed concrete, shall be deemed to include all formwork required in accordance with this Section, which shall not be measured separately. The contractor shall also submit bar bending schedule for approval of Engineer-in-charge before execution.

5. CONDITIONS FOR STEEL

- 5.1 The contractor shall procure steel reinforcement bars conforming to relevant BIS codes from main producers as approved by the ministry of Steel and secondary producers or re-rollers having valid BIS license. For TMT bars conforming to relevant BIS code, procurement shall be made from main producers and secondary producers having valid BIS license. The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work. Samples shall also be taken and got tested by the Engineer-in-charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to BIS codes, the same shall stand rejected and shall be removed from the site of work by the contractor at his cost within a week's time from written order from the Engineer-in-charge to do so.
- 5.2 The contractor will produce original challan / voucher for purchase of steel reinforcement from approved manufacturer as a proof of having the steel reinforcement purchased from approved manufacturer.
- 5.3 The steel reinforcement shall be brought to the site in bulk supply of 10 tonnes or more or as decided by the Engineer-in-Charge. Every consignment of steel brought to site shall be accompanied with test certificate issued by the manufacturer.
- 5.4 The steel reinforcement shall be stored by the contractor at site of work in such a way as to prevent distortion and corrosion by applying coating of corrosion inhibitor slurry as per nomenclature of the item and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
- 5.5 For checking nominal mass, tensile strength, bend test, rebend test etc. specimen of sufficient length shall be cut from each size of the bar at random at frequency not less than that specified below:

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

- 5.6 The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in Clause-10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. No payment for excess consumption of steel shall be allowed. However, for consumption lesser upto the permissible theoretical variation, recovery shall be made in accordance with conditions of contract at schedule 'F' (CPWD-8), without prejudice to action for acceptance of work / item at reduced rate or rejection as the case may be.
- 5.7 Steel brought to site and steel remaining unused shall not be removed from site without the written permission of the Engineer-in -Charge.

- 5.8 The mild steel and medium tensile steel bars to be used shall conform to IS: 432 and cold twisted bars and TMT bars shall conform to IS: 1786.
- 5.9 (i) Reinforcement including authorised spacer bars and lappings shall be measured in length of different diameters as actually (not more than as specified in the drawings) used in the work nearest to a centimetre. Wastage and unauthorized overlaps shall not be measured.
- (ii) Records of actual sectional weights shall also be kept dia wise and lotwise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The decision of the Engineer - in - Charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of steel received at site of work each day will constitute one single lot for the purpose. The weight of steel by conversion of length of various sizes of bars based on the actual weighted average sectional weight shall be termed as Derived Actual Weight.
- (iii) (a) If the Derived Weight as in sub - para (ii) above is lesser than the Standards weight then the Derived Actual Weight shall be taken for payment.
- (b) If the Derived Actual Weight is found more than the Standard Weight, then the Standard Weight as worked out in sub - para (ii) above shall be taken for payment. In such case nothing extra shall be paid for the difference between the Derived Actual Weight and the standard weight.

5.10 SPECIFICATIONS OF THERMO-MECHANICALLY TREATED BARS (TMT BARS)

- 5.10.1 Thermo Mechanically Treated Bars (TMT Bars) shall be used in all R.C.C. works. TMT Bars of Fe 415 grade conforming to IS - 1786 Specifications shall be procured from Main producers as approved by Min. of Steel and secondary producers having valid BIS licence.
- 5.10.2 Every care should be taken to avoid mixing different types of grades of bars in the same structural members as main reinforcement to satisfy clause 25.1 of IS: 456.
- 5.10.3 The point of change over shall be planned at any one particular level and shall be done through columns only. At the point of change over, it shall be necessary to increase the area of main steel in columns by 10% and the length of lap of bars by 50%.

6. CONDITIONS FOR CEMENT

- (i) The contractor shall procure 43 grade (conforming to IS 8112) ordinary Portland cement / PPC cement, as required in the work, from reputed manufacturers of cement, having a production capacity of one million tonnes or more per annum, such as A.C.C., Ultratech, Jaypee Cement, Birla, J.K. Cement, Century Cement etc. as approved by Ministry of Industry, Government of India, and holding licence to use ISI certification mark for their product whose name shall be got approved from Engineer-in-charge. Supply of cement shall be taken in 50 kg. Bags bearing manufacturer's name and ISI marking.
- (ii) The contractor shall assess theoretical requirement of cement to be used in the work. The cement shall be brought at site in supply of approximately 50% of the total assessed requirement or 100 bags whichever is more. In case assessed requirement is less than 100 bags, then agency has to bring whole quantity in one lot. However, decision of the Engineer-in-Charge shall be final.
- (iii) The cement godown of the capacity to store a minimum of 200 bags of cement shall be constructed by the contractor at site of work for which no extra payment shall be made. Double lock provision shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer-in-Charge or his authorized representative and the 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 at any time.

- (iv) **The contractor shall produce manufacturer's test certificate for cement for each lot of cement, which the contractor has brought at site. The contractor shall also produce bill of purchase from manufacturer or their authorized dealer in addition.**
- (v) The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in Clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in Clause 42 of the contract and shall be governed by conditions laid therein.
- (vi) 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.
- (vii) Damaged cement shall be removed from site immediately by the contractor on receipt of a notice in writing from the Engineer-in-Charge. If he does not do so within three days of the receipt of such notice, the-Engineer-in-charge shall get it removed at the cost of the contractor.

7. READY MIXED CONCRETE

7.1 The contractor shall procure RMC from the reputed manufacturers mentioned in "LIST OF PREFERRED MAKES OF MATERIALS". In case, the RMC is procured by the contractor from the agency other than preferred make, approval of NIT approving authority shall be essential. Contractor should, however, note that no reason for delay on account of time taken in deciding Job Mix Formula shall be accepted. If the contractor decides to procure ready –mixed-concrete from RMC plants, he shall, within a week of award of the work, submit a list of at least three R.M.C. plant companies of repute along with the details of such plants indicating name of owner/company, its location, capacity, technical establishment, past experience and text of Memorandum of Understanding (MOU) proposed to be entered between purchaser and supplier to the satisfaction of Engineer-in-charge, who, after satisfying himself about quality/capability of the company, shall give approval in writing (subject to drawl of MOU). The MOU shall be drawn with RMC plant owner/company and submitted to Engineer-in-charge within a week of such approval. The contractor will not be allowed to purchase ready-mixed-concrete without completion of above stated formalities for use in this project.

7.2 Notwithstanding the approval granted by Engineer-in-charge in aforesaid manner, the contractor shall be fully responsible for quality of concrete including input control, production control, transportation and placement etc. The Engineer-in-charge will reserve right to deploy his representative to inspect plant site at any stage and reject the material / concrete if he is not satisfied about quality of material/ product. The contractor should, therefore, draw MOU / agreement with RMC owner / company very carefully keeping all terms and conditions / specifications forming a part of this tender document.

7.3 Where ready mix concrete is stipulated to be used from an approved source / manufacture, the computerized dispatch slips that are sent with each dispatch of RMC shall be kept on record.

7.4 DESIGN MIX FROM LABORATORIES

The contractor, at his own cost, shall engage outside / independent laboratories of any Government Institutes, Indian Institutes of Technology, National Institutes of Technology, Central and State Research Centres, Centrally and State funded laboratories for design mix of

concrete and testing of materials connected therewith in accordance with relevant Specifications. The various ingredients for mix design and laboratory tests connected therewith shall be sent to the lab / test houses through the Engineer-in-Charge and the samples of such aggregates sent shall be preserved at site by the department.

In the event, if all the above laboratories are unable to carry out the requisite design / testing connected therewith, the contractor may have it done from any other laboratory with prior approval of the NIT approving authority.

The contractor may be allowed, by the Engineer-in-Charge, to use design mix of RMC plant if request is made in this regard. However, the responsibility of quality of concrete as per specifications shall rest with the contractor.

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Minimum Quality Assurance Plan

1. Tests as per CPWD Specification 2019 Vol I & II are to be carried out by the contractor. While deciding these criteria CPWD Specifications & Provisions of BIS Code and Standard Practices may be referred.
2. Machinery and other Tool & Plants required to be deployed at site by the contractor as per Annexure requirement of Entire Machinery and T&P may not be required at the start of work, therefore, a proper time schedule by which each Machinery & T&P is to be brought at site should be submitted by the contractor to the site staff before start of the work.
3. Field laboratory is not required to be setup.
4. Maintenance of Register of Tests –
 - (a) All the registers of tests carried out at Construction Site or in outside laboratories shall be maintained by the contractor which shall be issued to the contractor by Engineer-in-charge at the time of issue of award letter.
 - (b) All Samples of materials including Cement Concrete Cubes shall be taken by Contractor jointly with JE in charge of work and out of this at least 50% samples shall be taken in presence of AE in charge. If there is no JE, all Samples of materials including Cement Concrete Cubes shall be taken by contractor in presence of AE in charge of work. All the necessary assistance shall be provided by the contractor. Cost of sample materials is to be borne by the contractor and he shall be responsible for safe custody of samples to be tested at site.
 - (c) All the entries in the registers will be made by the designated Engineering Staff of the contractor and same should be presented before JE/AE/Divisional Engineer for their review. Contractor shall be responsible for safe custody of all the test registers.
 - (d) It shall be mandatory for the field staff to retain the self-attested (by agencies / contractors) copies of Tax paid bills of the materials entered in the MAS Register viz. Steel, Cement, Bitumen, Paint, Primer, Distemper, Varnishes, Tile Adhesive, Admixture, Anti Termite Chemicals, Water Proofing Compound material and any other item by the NIT approving authority.
 - (e) Self-attested copies of Tax paid bills of materials taken in MAS Register shall be obtained by the field staff from the agencies / contractors before settling the payments. In case of any doubt the same can be verified by the field staff. However, onus of genuineness of Tax paid bills rests with the agencies / contractors.
5. It is mandatory to the contractor to submit copy of all test registers, Material at Site Register and hindrance register along with each alternate Running Account Bill and Final Bill. These registers shall further be checked by AE(P) in Division Office and receipts of registers should also be acknowledged by Accounts Officer by signing the copies and register to confirm receipt in Division office all the test registers and hindrance register is not submitted by contractor along with each alternate R/A Bill & Final Bill, no payment shall be released to the contractor.
6. Maintenance of Material at Site (MAS) Register –
 - (a) All the MAS Registers including Cement and Steel Registers shall be maintained by Contractor which shall be issued to the contractor by Engineer-in-charge along with the award letter.

- (b) The contractor shall get 100% test checked by JE or by AE if there is no JE after each entry of receipt of material at site in MAS register.
- (c) The contractor shall get MAS Register test checked by JE at least once a week and at least once a week by AE. If JE is not available then MAS register must be checked by AE at least once a week.
- (d) Cement register shall be got reviewed by divisional engineer at least once in a month.

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**GUARANTEE BOND TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECTS
AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS**

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

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

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

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

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 Obligor and by and for and on behalf of the PRESIDENT OF INDIA on the day, month and year first above written.

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

- 1.
- 2.

Signed for and on behalf of THE PRESIDENT OF INDIA by in the presence of

- 1.

**GUARANTEE TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECTS AFTER
COMPLETION IN RESPECT OF STRUCTURAL REPAIRS WORKS**

This agreement made this day of two thousand and between Son of(hereinafter called the GUARANTOR of the one part) and the PRESIDENT OF INDIA (hereinafter called the GOVERNMENT of the other part).

WHEREAS THIS AGREEMENT is supplementary to a contract (hereinafter called for contract) dated and made between the GUARANTOR of the one part and the GOVERNMENT of the other part, hereby the contractor interalia, under took to render the buildings and structures on the said contract completely structurally sound.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said structures will remain sound and strong **for five years** from the date of completion of work.

NOW THE GUARANTOR hereby guarantee that structural repairs done by him will render the structures completely steady & strong and the minimum life of such repairs shall be five years to be reckoned from the date of the completion of works.

Provided that the guarantor will not be responsible for damage caused due to earthquake or misuse of buildings or alteration and for such purpose. The decision of the Engineer-in-charge with regard to cause of damage shall be final and binding.

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

That if the guarantor fails to make good the defects or commits breach there under then the guarantor will indemnify the principal and his successors against all loss, damage, cost, expense or otherwise which may be incurred by him by reason of any default 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 and the decision of the Engineer-in-Charge will be final and binding on both the parties.

An amount equivalent to 2 % of **item No.....** will be deducted as from Bills as security and the same will be refunded after five years from the date of completion of work.

IN WITNESS WHEREOF THESE PRESENTS HAVE BEEN EXECUTED BY THE OBLIGATOR THE DAY, MONTH, AND YEAR FIRST ABOVE WRITTEN.

Signed, sealed and delivered by OBLIGATOR in presence of:

- 1.
- 2.

Signed for and on behalf of THE PRESIDENT OF INDIA BY----- in the presence of:

- 1.
- 2.

LIST OF PREFERRED MAKES OF MATERIALS

Specification/brands names of materials (Refer materials, whichever are applicable for the scope of work) and finishes approved by the Engineer-in-Charge are listed below. However, approved equivalent materials and finishes of any other specialized firms may be used, in case it is established that the brands specified below are not available in the market and subject to approval of the alternate brand by the Engineer-in-Charge, (See also conditions of contract).

Sl. No.	Materials	Approved make
1.	Poly-Sulphide Sealant	Pidilite, Tuffseal, DURABUILD, Makphalt
2.	Damp Proof Material	Impermo, Dura Build, Acco-Proof, Makphalt
3.	Structural Steel, Sections	Tata, Sail, RINL, Jindal, Apollo, JSW, JSPL
4.	Admixture	Fosroc, MC BAUCHEMIE, CICO/Dura Build, BASF, SIKA
5.	White Cement	J.K. White, Birla White
6.	Water Proofing Compound	Tap Crete, CICO, Dura Build, Accoproof, Impermo (BySnowcemIndiaLtd.), Pidilite, Dura Build/Fosroc
7.	Bitumen	Indian Oil, Hindustan Petroleum, Bharat Petroleum
8.	Injection Grouting	Pidilite (DrFixit), Sika, Fosroc, DURABUILD
9.	Non-metallic Surface Hardener	MC Deritop F.H.
10.	Locks/Latch	Godrej, Harrison, Dorma, Dorset, YALE, Hafele, Geze
11.	Laminates, Veneer	Formica, Merino, Decolam, Greenlam, Kitlam, Century, Greenply, Archid, Coastto Coast, Timex, Natural Decowood, Alu-Tech
12.	Wire Mesh	Sterling Enterprises, Trimurty Welded Mesh
13.	Prelaminated Particle Board	Action TESA, Bhutan Boards, Greenlam, Kitlam, Century, Green Panel
14.	Adhesive	Pidilite, Dura Build, Dunlop, Asian Paint
15.	Epoxy Mortar/Floor/ GROUT	Fosroc, Dura Build, Sika, BASF
16.	Dash Fasteners	Hilti, Fischer, Bosch, Wurth, Canon
17.	Flush Door shutters Decorative/ Non-Decorative)	Green Ply, Duro, Merino, Century, Greenlam, Centuryply, Europly, Merino, Green Panel
18.	Board & Plywood	Duro, Kitply, Century, Greenlam, Archid, Bhutan Tuff, Green Panel
19.	Hydraulic Door Closer/Floor Spring	Hardwyn, Godrej, Dorset, Dorma, Hafele, Assa Abloy
20.	Wooden Door Fittings of Brushed Steel	Dorma, Godrej, Dorset, Hafele, Geze
21.	S.S. Staircase Railing	Jindal Stainless Steel Ltd., Hardwyn, Geze, Dorma, Kitch
22.	Smoke Seal Strip	Imported Promat/Astro Flame, Sehgal Doors
23.	Door Closer Lock	Ingerboll Rand / Dorma, Hardwyn, Everest, Hafele, Assa Abloy
24.	Anodized Aluminium Hardware (Heavy Duty)	Hardima, Everite, Sigma (ISI Marked), Earl Bihari, Dorma
25.	Tempered Glass	Modi Float & Saint Gobain, ASAHI, Glaverbel
26.	Polyester Powder Coating Shades	Nerolac, Berger, J & N

27.	Aluminium Sections	Jindal, Hindalco, Indalco, KALCO, Global, Bhoruka
28.	Friction Stay Hinges	Earl-Bihari, Godrej, Hettich, Haffele
29.	Nuts, Bolts and Screws, Steel	Kundan, Priya, Atul, Puja
30.	EPDM Gasket	Hanu/Anand
31.	Structural Silicone	Dow Corning/Wacker
32.	Weather Silicone	Dow Corning/Wacker, Dura Build,
33.	Adhesive Tape	Norton, 3M, Avery Denisson
34.	Glazed Ceramic Tiles	KAJARIA, NITCO, ASIAN, RAK, Oasis, Varmora, MOZIO, ORIENT BELL
35.	Vitrified Tiles (all types)	GRANITO, NAVIN DIAMOND, KAJARIA, ASIAN, RAK, NITCO, RESTILE, ORIENT BELL
36.	Tile Adhesive 70.	CICO, Dura Build, PIDLITE FERROUS, Asian Paint, Fosroc, MYK LATICRETE, MAKPHALT
37.	C.C. Pavers	NITCO-(ROCKARD), TUFTEK, K.K Pvt. Ltd., Hindustan Tile, Dalal, MODERN
38.	Acrylic Emulsion Paint	ASIAN Paints, ICI, NEROLAC, BERGER, SHALIMAR
39.	Luxury Emulsion Paint	Burger-silk, Asian-Royal, ICI-Velvet, Nerolac- Impression, SHALIMAR
40.	Grass Paver	Unistone, Ultra, Shree, Supertile, Modern
41.	Water-Proof Cement Paint	Kilicknixon, Durocem, Snowcem, Burger, ICI, Asian Paints, Jenson & Nickolsen
42.	Synthetic Enamel Paint	Berger, Nerolac, Asian Paints, ICI India Ltd., SHALIMAR
43.	Plastic Emulsion Paint	Berger, Nerolac, ICI India Ltd., Asian Paint
44.	Fireclay Sinks & Drain Boards	Parry, Sunfire, Hindware, Cera
45.	Stainless Steel Sinks	Nilkanth, AMC, Cobra, Jayna, Nirali, CERA, KINGSTON, Cardin
46.	C.P. Brass Fittings	
46.1	C.P. Brass Bib Cock 15 mm	Jaquar (model No. ALI-85037 or Equivalent), MARC (model No. MVT-2080 or Equivalent), Cardin (model No. OPL15041 or Equivalent) Kohler (model No. K-20073IN-4-CP or Equivalent) Roca, Grohe, Player, Prima, Jonhson, CERA, KINGSTON
46.2	C.P. Brass long Body Bib Cock 15 mm	Jaquar (model No. ALI-85037 or Equivalent), MARC (model No. MVT-2080 or Equivalent), Cardin (model No. OPL15041 or Equivalent) Kohler (model No. K-20073IN-4-CP or Equivalent) Roca, Grohe, Player, Prima, Jonhson, CERA, KINGSTON
46.3	C.P. Brass Stop Cock 15 mm (concealed)	Jaquar (model No. ALI-85037 or Equivalent), MARC (model No. MVT-2080 or Equivalent), Cardin (model No. OPL15041 or Equivalent) Kohler (model No. K-20073IN-4-CP or Equivalent) Roca, Grohe, Player, Prima, Jonhson, CERA, KINGSTON
46.4	C.P. Brass Angle Valve 15 mm	Jaquar (model No. ALI-85037 or Equivalent), MARC (model No. MVT-2080 or Equivalent), Cardin (model No. OPL15041 or Equivalent) Kohler (model No. K-20073IN-4-CP or Equivalent) Roca, Grohe, Player, Prima, Jonhson, CERA, KINGSTON
47.	Soil, Waste & Vents Pipes & Fittings A) Centrifugal Cast Iron	Neco, RIF, SKF, HIF, RPMF
48.	LA (CI) Pipes	RIF, Neco, Electro Steel, Kesoram

Addition: NIL

Overwriting: NIL

Correction: NIL

Deletion NIL

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49.	G.I. Pipes	Tata, Jindal – Hissar, Prakash Surya
50.	G.I. Fittings (Malleable Cast Iron)	Unik, ICS
51.	Gunmetal Valves	Leader, Sant, Zoloto
52.	Stone Ware Pipe & Gully Traps	Perfect, Parry, Anand
53.	R.C.C. Pipes-(NP-2)	Lakshmi, Sood & Sood, Jain & Co.
54.	MS Pipe	Kesoram, Electro Steel, TATA, Well Span
55.	C.I. Double Flanged Sluice Valves	Kirloskar, IVS, Burn
56.	C.I. Double Flanged Non-Return Valves	Kirloskar
57.	C.I. Manholes Covers	B.C. RIF, NECO, SKF
58.	UPVC Pipe	Supreme, Prince, Finolex, Astral, AKG
59.	Ball Valves	Zoloto, IBP, Arco
60.	Butterfly Valves	Audco
61.	Spider Fittings	Dorma, Sevax, Hettich, Hafele, EBCO
62.	Mineral Fibre False Ceiling	Armstrong, Hunter Douglas, Dexune, Diamond (Ceiling), Hi-Steel, RITE
63.	APP Sheet for water proofing	Roflex, STP, Dermabit, Water tite (Alex), Bitumat Co. Ltd., Asian Paint, Technow, NICOL, Torchstar, MAKPHALT
64.	PE-AL-PE PIPES & FITTINGS	Jindal, Supreme, Kitec
65.	PVC/SINTHETIC WATER TANK	Sintex, Uniplast, Polycon, Sovisy
66.	Self Closing Pillar Taps	Jaquar, KAISER VITALS, Kingston
67.	Hot Water Insulation	Glass Wool/ Mineral Wool
68.	Elastomeric Sleeve	Up Twiga / Rocklloyd
69.	Beveled Edge Mirror	Atul/Saint Gobain/Modi guard, Jolly,
70.	Rolling Shutters	Rama Rolling Shutters / Joyti Rolling Shutters / Anand Industries
71.	Wall Putty	Birla White, J.K White, Berger
72.	Drapery Rod, Venetian Blinds, Roller blinds	Mac, Vista, Hunter-Douglas, Rossele, Wall Track, Deck, PHIFER
73.	Ready Mixed Concrete	ACC, Unitech, Ultra Tech (Birla), L&T, RMC India, M/s NDCON Construction, Shri Ram Ready Mix Concrete Pvt. Ltd.,
74.	PTMT Fittings	Prayag, Shakti Brand, Polytuf
75.	HDPE PN-6, PE-80	Dure-line, Supreme, Vikas - “Tijaria”
76.	Electric Resistance Welded (ERW) Pipes Slotted/Blind for Tube well	Jindal, SAIL, TATA, Wellspun
77.	Polycarbonate sheet	Lexan brand of GE or equivalent
78.	Texture Decorative Paint	OIKOS/SKK/ARMOURCOAT, Ultra Tech MAS
79.	Metal False Ceiling	Armstrong, Hunter Duglus, Dampa, Lindner, Durlum, Dexune, Credence, Saint Gobain, Supersil & Hi-Steel, RITE
80.	UPVC Window/Door	Rehau, Weka, Fenesta
81.	Laquered Glass	Modi, Saint Gobain, Asahi, Glaverbel
82.	Bamboo and wooden grill/ baffle, backer/ box metal special false ceiling	Armstrong, Hunter Douglas, SAS, Dampa, Lindner, Anutone, Ecophone, USG Boral, AMF, RITE
83.	Hard wood Flooring/Engineering wood flooring	Juncker, Vitofloor, Parador, Pergo, Mikasa, Vista, Green Panel
84.	Wooden Laminate Flooring	Vista, Juncker, Vitofloor, Pergo, Green Panel
85.	Nylon Carpet Tiles/ Rolls	Forbo Flotex, Euronics, SHAW

Addition: NIL

Overwriting: NIL

Correction: NIL

Deletion NIL

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86.	Calcium Silicate and Gypsum Board/ Tiles	Ramco-Hilux, Gyproc, Boral, Saint Gobain, USG, Dexune, RITE
87.	Fabric	Response, SAROM, RR DÉCOR, D DÉCOR
88.	Accoustic Board / Panel	Anutone, Ecophone, Gyptech, RITE
89.	HARDWARE & FITTINGS	DORMA, HAFELE, GEZE, ASSAABLOY
90.	GLASS	SAINTGOBAIN, AIS, ART N GLASS
91.	PLY	Duro, Greenply, Centuryply, Archidply, Green Panel
92.	Gypsum Board	Saint Gobain, USG Boral
93.	Glass partition	Dorma, HAFLE, Alloy, ASSA ABLOY
94.	Glass film	3M Film, Innovation Décor, Millenium, Business Ltd.
95.	Vinyl Flooring	Gerflor, Tarkett, Responsive, LG Hausys, Show Wonder Floor.
96.	Waste Bins	Mofna Industries, K.C. Green Revolutions , Hafele
97.	Signages	Innovation Décor, Hanu Marketing Pvt. Ltd.
98.	Laquered Glass	Saint Globain, AIS, ART N GLASS
99.	Italian Marble	Stonex, Marble City, J.C.R. Marble, Malani marble
100.	Engineered Stone	Kalinga, Shubham Stone, Rahul Marble
101.	Melamine foam	Ecotone, NSA Builtech
102.	Mosaic & Decorative Tiles	Cameo Impex, Sindron
103.	Stone / Tile Adhesive	MYK Laticrete, Pidilite, Mapei
104.	Wall Paper	Rossele, Vescom, Fabric Overseas
105.	Shower Cubicle	Jacuar, Assaabloy
106.	Sliding folding partition	Dorma, Hafele, Assabloy
107.	R.O. System	Venza, Sarah Aquasoft, Sarah Puritech, Kent
108.	Pre-laminated MDF Board	Green Panel, Marino, Veer, Century
109.	Modular Pantry/kitchen	Space Wood, Grandeur, ALSTONE
110.	PU-Polish & Sealer	NEROLIAC, ASIAN PAINT, PIDILITE
111.	Fabric Ceiling	NSA BUILDTECH, DELHI GYPSUM, INSULATION PRODUCTS, RITE
112.	Steel Reinforcement (TMT Bars)	Tata, SAIL, RINL, JSPL, JSW
113.	Ordinary Portland Cement (43 grade)	ACC, Gujarat Ambuja, J.K, Ultra-Tech, Birla Uttam, Shri Cement, Cement Corporation of India.
114.	Prelaminated Particle Board Exterior Grade	Novapan, Merino, Kitlam, TESA Action Co., Century, Green Lam
115.	Pink primer	Dulex, Nerolac,
116.	GRG False ceiling	Diamond, Saint Gobin, USG Bond, RITE
117.	Red Oxide Zinc Chromate Primer	High performance yellow metal primer, Dulex, Nerolac, Nippon
118.	Acrylic Distemper	Tractor, Dulux, Asian Paint, Berger, Nerolac, Opus Birla
119.	Water Proof Cement paint	Asian exterior wall prmer, ICI DULUX, Cem Colour
120.	Acrylic smooth exterior paint with silicon additives	Dulux, Apex, Ultima, Nerolac, Opus Birla
121.	Puf Panel	E Pack, Prefab, BNAL. Lloyd, Interarch.
122.	LGSF Steel/Coil	Tata, Jindal and Bhushan Steels, Sail.
123.	WPC Door/ Board/Frame/Window/Jali	Alstone, Parasnath, Jindal GSL Pvt. Ltd , BVW, Kaka, Rajshri Plastiwood

Addition: NIL

Overwriting: NIL

Correction: NIL

Deletion NIL

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124	Overhead steel storage unit/furniture	Duaco, Delite, Godrej, Indo Inovation, Durian, Wipro, Haworth, Royalsburg as per direction of Engineer-in-charge.
125	Pre laminated cement bonded particle board	Bison Or equivalent
126	SMC/GRP Water Tank	Sovisy, Sintex, Devi Polymer
127	ALUMINIUM COMPOSITE PANEL (ACP)	REYNOARCH, VIRGO, Alu-Tech
128	ALUMINIUM HONEYCOMB PANEL	REYNOARCH, VIRGO Or equivalent
129	HIGH PRESSURE LAMINATE (HPL) ALUMINIUM HIGH PRESSURE LAMINATE (AHPL)/ TOILET CUBICALS	REYNOARCH, VIRGO, Alu-Tech
130	LOUVER	REYNOARCH, Hi-Steel
131	WARDROBE	ALSTONE Or equivalent
132	SILICONE SEALANT	ALSTONE Or equivalent
133	PVC DOORS & WINDOWS	ALSTONE Or equivalent
134	PU SILICONE	ALSTONE Or equivalent
135	AAC ADHESIVE	REYNOARCH Or equivalent
136	Terrazzo Tiles (Precast) /Plain/ Chequerred	NITCO, HINDUSTAN, MODERN, Unistone, K.K. Manhole
137	Cement Concrete Tiles/Hardonite Tiles	NITCO, NTC, HINDUSTAN, Unistone, Dalal, Surendera
138	Clay Tiles on Roof	KENZAI, JOHNSION
139	Vitreous China Sanitary ware	Parryware, Hindware, Kohlar, Toto, Roca
140	Copper Tubes/Pipes	Rajco, Max Flow ABC
141	Copper Fittings	Yorkshine, IBP, Beonex
142	Unglazed Vitrified Tiles	Johnson – (Endura), Somany – (Dura Stone), Regency – (Tiles), Kajaria, Oasis, Varmora
143	Entrance Matting	3m, Forbo, Parker Electrocnics, Abhishek Solution
144	Pre Cast Cement Concrete Manhole Frame & Cover	K.K. Manhole & Gratings Co. Pvt. Ltd, Dalal Tile Industries, ABC
145	Ductile iron manhole frame & covers	RBAC, PLASMA
146	GFRP manhole frame & covers	Dudhi, NICU
147	S&S Centrifugally Cast (spum) Ductile Iron Pipe as per IS: 8329	Tata Ductura, JSAW-NIRJAL/JSAW-JAL/ELECTRO STEEL
148	S&S CI Standard Special Suitable for Mechanical Jointing as per IS: 13382	Tata Ductura, JSAW-NIRJAL/JSAW-JAL/ELECTRO STEEL

Addition: NIL

Overwriting: NIL

Correction: NIL

Deletion NIL

AE(C)-P

*** RAW MATERIAL SOURCE TO BE APPROVED BY THE ENGINEER-IN-CHARGE.**

NOTE:

1. In addition to above preferred makes any equivalent make of above-mentioned items shall be allowed as approved by Engineer-in-charge.
2. The weight and thickness of the material should be as per CPWD Specification/ relevant IS code/ manufacturer specification.
3. The materials not covered in above list of approved make/brand, shall be of ISI mark as approved by Engineer-in-Charge.

MINIMUM QUALITY ASSURANCE PLAN

1. 1. Minimum Quality Assurance Plan done as per No. DG/SOP/28 dated 15.11.2021.

2. Maintenance of Register of Tests

- i) All the registers of tests to be carried out at construction site or in outside laboratories is maintained by the contractor which is issued to the contractor by Engineer-in charge.
- ii) ii) All Samples of materials including cement concrete cubes is taken jointly with Contractor by JE, if there is no JE, out of this at least 50% samples shall be taken in presence of AE in charge and 10 % sample shall be taken in presence of EE. All the necessary assistance is to be provided by the contractor. Cost of sample of materials including testing charges is to be borne by the contractor and he/she is responsible for safe custody of samples to be tested at site.
- iii) All the test in field lab setup at construction site is carried out by the Engineering Staff deployed by the contractor preferably. The percentages of engineering staff deployed by the field officers 100% witnessed by JE and 50% of tests shall be witnessed by AE-in change. At least 10% of the tests are to be witnessed by the Executive Engineer.
- iv) iv) All the entries in the registers will be made by the designated Engineer Staff of the Contractor and same is regularly reviewed by the field officers as well as the Engineer in charge. Contractor shall be responsible for safe custody of all the test registers.

3. Performa for mandatory test as per Annexure 54 (refer SOP no. 7/2) is attached with each Running bill. Submission of copy of all Test Registers, Material at Site Register along with each alternate Running Account Bill and Final Bill shall be mandatory. These registers are duly reviewed by Engineer in charge in Division Office and receipts of registers should also be acknowledged by Account branch by signing the copies and register to confirm receipt in Division Office.

4. Agency will submit the methodology of various operations conducted before the start of work. Agency has to work with according to specifications & technical parameters and the methodology as approved by Engineer-in-charge and get adapted the same thereof. The falling which, the department will not be bound to make the payment of regarding executed items of the work. Any dispute between the agency and department regarding this, Engineer-in-charge's decision is final and binding.

5. Maintenance of Material at Site (MAS) Register-

- i) All the MAS Registers including cement and steel registers shall be maintained by contractor which shall be issued to the contractor by Engineer-in-charge.
- ii) Each of the entry of receipt of material at site shall be 100% test checked by JE or by AE if there is no JE. If both JE & AE are available AE should test check at least 50% of the materials.
- iii) Each MAS Register is checked by JE & AE at least once a week.
- iv) Cement register is reviewed by EE at least once in a month for work at same station and alternate months for work at out station. Correction = Nil, Insertion = Nil, Overwriting = Nil, Executive Engineer RML Hospital Division, CPWD, New Delhi

Addition: NIL

Overwriting: NIL

Correction: NIL

Deletion NIL

AE(C)-P

केन्द्रीय लोक निर्माण विभाग
कार्यालय झापन

No. DG/CON/ Maintenance 2023/18
ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

VIDYUT BHAWAN, NEW DELHI

Dated: 27.02.2026

Subject: Modifications in General Rules & Directions, Clause 1 and Schedule E of GCC 2023 Maintenance Works

The following modifications are made in the General Rules & Directions, Clause 1 and Schedule E of GCC 2023 Maintenance Works.

Existing provision	Modified provision
General Rules & Directions 11 (i) The Contractor whose tender is accepted, will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in Schedule 'E' and within the period specified in Schedule F.	General Rules & Directions 11 (i) The Contractor whose tender is accepted, will be required to furnish performance guarantee as mentioned in Schedule 'E' and within the period specified in Schedule F.
Clause 1 Performance Guarantee (i) The contractor shall submit an irrevocable Performance Guarantee at specified percentage of the tendered amount as mentioned in Schedule 'E', in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule 'F' from the date of issue of letter of acceptance.	Clause 1 Performance Guarantee (i) The contractor shall submit an irrevocable Performance Guarantee as mentioned in Schedule 'E', in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Schedule 'F' from the date of issue of letter of acceptance.
Sl. No. (ii) to (v) SCHEDULE 'E' Reference to General Conditions of contract Sl. No. (i)	No change SCHEDULE 'E' Reference to General Conditions of contract No change

D.P. Jindal
EE (Contract)

चरित्रमण्डल अकादमी (सी.एड.एम.)
अधीक्षण अभियंता (सी.एड.एम.) SE (C&M)

केलोनिवि तथा लोनिवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु।
(केलोनिवि वेबसाइट के माध्यम से)


 27/12/26
 EE(1)
 D.P. Jindal
 EE (Contract)

केन्द्रीय लोक निर्माण विभाग
कार्यालय ज्ञापन
No. DG/Manual- 2024/22

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Vidyut Bhawan, New Delhi

Dated: 23.03.2026

Sub: Modification in para 5.1.1 of CPWD Works Manual 2024.

Following Modification is made in para 5.1.1 of CPWD Works Manual 2024:

Existing Provision	Modified Provision
5.1.1 Necessity for Earnest money To safeguard against a bidder withdrawing or altering his/her bid during the bid validity period, earnest money shall be obtained from the bidders for all tenders unless otherwise mentioned in the tender documents.	5.1.1 Necessity for Earnest money To safeguard against a bidder withdrawing or altering his/her bid during the bid validity period, earnest money shall be obtained from the bidders for all tenders unless otherwise mentioned in the tender documents. 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

This issues with the approval of DG CPWD.

(चन्द्र पाल)
अधीक्षण अभियंता (सी.एंड.एम.)

Issued from file No. CSQ/CM/16(1)/2026 e-file 9210279 (DFA/ 9359805) चन्द्र पाल, अधी. अभि. (सी.एंड.एम.)
Chander Pal, SE (C&M)

केलोनवि तथा लोनवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु। (केलोनवि वेबसाईट के माध्यम से)

K.G. Bansal
EE (Manual)

Schedule of work (Civil)					
Name of work: - A/R & M/O Various Electrical and mechanical service of New Doctor's Hostel at ABVIMS at Dr. RML Hospital New Delhi during 2026-27. (Electrical Work & Civil Work).					
Sl. No.	Description of items	Qty.	Unit	Rate	Amount
1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	5.00	cum	6518.60	32593.00
2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	0.52	cum	7132.25	3691.00
3	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	0.69	cum	9105.95	6283.00
4	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
	Cement mortar 1:4 (1 cement :4 coarse sand)	6.00	sqm	1123.80	6743.00
5	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.				
	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble				
	Area of slab upto 0.50 sqm	8.00	sqm	3414.8	27318.00
6	Area of slab over 0.50 sqm	7.50	sqm	3078.4	23088.00
7	Granite stone slab of colour black, Cherry/Ruby red				
8	Area of slab upto 0.50 sqm	6.00	sqm	5413.50	32481.00
9	Area of slab over 0.50 sqm	3.60	sqm	5136.30	18491.00
10	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	225.00	sqm	506.70	114008.00
11	Providing and fixing Ist quality ceramic glazed wall of size 300x450mm tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	11.10	sqm	1267.95	14074.00

Addition : NIL

Overwriting : NIL

Deletion : NIL

AE (E)-(P)

AE(C)-(P)

	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
12	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	3.78	sqm	3167.95	11975.00
13	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS: 3818 marked with necessary screws	3.00	sqm	2819.25	8458.00
14	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	21.00	sqm	2392.65	50246.00
15	Providing and fixing chromium plated brass curtain rod having wall thickness of 1.25mm with two chromium plated brass brackets fixed with C.P. brass screws and PVC sleeves etc., wherever necessary complete :				
	25 mm dia	10.00	mtr	525.55	5256.00
16	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.				
	1.0 mm thick	33.60	sqm	897.30	30149.00
17	Providing and fixing Pre-laminated medium density fibre board IS: 14587:1998 marked, with one side decorative lamination other side balancing lamination Grade-I(exterior grade) in shelves with screws and fittings wherever required, edges to be sealed with PVC edge bending tape 2.00 mm thick of approved brand (fittings to be paid separately).				
	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 18 mm thick confirming to IS:14587	7.20	Sqm	1415.7	10193.00
18	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade - I MDF Board 25 mm thick confirming to IS:14587	7.20	Sqm	1874.7	13498.00
19	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	100.00	kg	133.70	13370.00
20	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.				
	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	0.54	sqm	1133.55	612.00

Addition : NIL

Overwriting : NIL

Deletion : NIL

AE (E)-(P)

AE(C)-(P)

21	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
	25 mm thick	3.60	sqm	1948.25	7014.00
22	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), including grouting the joints with white cement and matching pigments etc., complete.	8.00	sqm	1330	10640.00
23	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.				
	Glazed Vitrified tiles Matt/Antiskid finish of size				
	Size of Tile 600 x 600 mm	20.00	sqm	1464.85	29297.00
24	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.				
	Size of Tile 600x600 mm	9.00	sqm	1553.46	13981.00
25	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.				
	Size of Tile 600x600 mm	0.90	sqm	1623.05	1461.00
26	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed				

Addition : NIL

Overwriting : NIL

Deletion : NIL

AE (E)-(P)

AE(C)-(P)

	with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.				
	Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent	12.00	sqm	4481.30	53776.00
27	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
	110 mm diameter	50.00	metre	377.40	18870.00
28	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped alvanized steel sections (galvanized @ 120 grams/sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.				
	12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.	37.50	sqm	2215.15	83068.00

29	Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join, C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/sqm (both side inclusive), fixing with clip in tiles into spring 'T' with :				
	GI Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.	22.50	sqm	2221.7	49988.00
30	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	2114.27	sqm	156.05	329931.00
31	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.				
	One coat	7515.00	sqm	95.45	717307.00
32	Two coats	949.00	sqm	142.80	135517.00
33	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	3758.00	sqm	19.75	74221.00
34	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
	One or more coats on old work	210.00	sqm	102.80	21588.00
35	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
	With cement mortar 1:4 (1cement: 4 coarse sand)	20.00	sqm	560.50	11210.00
36	Providing and fixing brass curtain rods of wall thickness 1.25 mm with two brass brackets fixed with				

Addition : NIL

Overwriting : NIL

Deletion : NIL

AE (E)-(P)

AE(C)-(P)

	brass screws and wooden plugs etc. wherever necessary complete.				
	20 mm diameter.	20.00	metre	343.50	6870.00
37	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer- in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding. Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done.	160.00	sqm	338.25	54120.00
38	Cleaning of terrace/loft water storage tank (inside surface area) upto 12000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)	200000.00	litre	0.50	100000.00
39	Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.	10.00	each	108.30	1083.00
40	Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:- Tank shall be emptied of water by pumping & bottom shall be cleaned of silt and other deposits. Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface by liquid chlorine. (iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface. (v) Finally the surface shall be treated with	784.68	sqm	84.85	66580.00

	ultraviolet radiation etc. as per direction of Engineer-in-Charge.				
41	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in-Charge.	5.00	each	134.10	671.00
42	Dismantling 15 to 40 mm dia G.I. pipe including stacking of dismantled pipes (within 50 metres lead) as per direction of Engineer-in-Charge. (a) Internal Work- Exposed on wall	15.00	metre	3.25	49.00
43	Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.	75.00	Each	429.10	32183.00
44	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	3.75	cum	2434.25	9128.00
45	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	3.75	cum	1503.60	5639.00
46	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
	In cement mortar	1.88	cum	2060.20	3863.00
47	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :				
	Of area 3 sq. metres and below	15.00	each	143.50	2153.00
48	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
	For thickness of tiles 10 mm to 25 mm	80.00	sqm	73.40	5872.00
49	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	12.00	sqm	266.45	3197.00
50	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	200.00	sqm	54.65	10930.00
51	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	125.00	sqm	56.35	7044.00
52	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				

	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	2.00	each	6767.4	13535.00
53	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required:				
	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	5.00	each	2648.85	13244.00
54	White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap	5.00	each	1879.20	9396.00
55	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:-				
	(a) White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	2.00	each	3960.55	7921.00
56	Providing and fixing kitchen sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required:				
	White glazed fire clay kitchen sink of size 600x450x 250 mm	2.00	each	3892.75	7786.00
57	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
	Kitchen sink with drain board				
	510x1040 mm bowl depth 250 mm	2.00	each	6945.60	13891.00
58	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
	Kitchen sink without drain board				
	610x460 mm bowl depth 200 mm	2.00	each	3873.80	7748.00
59	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	15.00	each	349.15	5237.00
60	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	15.00	each	1034.80	15522.00
61	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	Flexible pipe				
	32 mm dia	35.00	each	119.55	4184.00
62	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6	5.00	each	1607.95	8040.00

Addition : NIL

Overwriting : NIL

Deletion : NIL

AE (E)-(P)

AE(C)-(P)

	mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.				
63	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
	Rectangular shape 453x357 mm	5.00	each	1361.80	6809.00
64	Rectangular shape 1500x450 mm	5.00	each	2093.00	10465.00
65	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	5.00	each	1083.50	5418.00
66	Providing and fixing toilet paper holder :				
	C.P. brass	5.00	each	803.70	4019.00
67	Providing and fixing soil, waste and vent pipes :				
	100 mm dia				
	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	10.00	metre	1180.75	11808.00
	75 mm diameter :				
68	Sand cast iron S&S pipe as per IS: 1729	5.00	metre	1044.75	5224.00
69	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :				
	75 mm dia pipe	5.00	each	168.20	841.00
70	100 mm dia pipe	5.00	each	198.15	991.00
71	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :				
	For 100 mm dia pipe	5.00	each	362.85	1814.00
72	For 75 mm dia pipe	5.00	each	360.00	1800.00
73	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
	100 mm dia				
	Sand cast iron S&S as per IS - 3989	2.00	each	705.20	1410.00
	75 mm dia				
74	Sand cast iron S&S as per IS- 3989	2.00	each	522.8	1046.00
	Providing and fixing plain bend of required degree.				
	100 mm dia				
75	Sand cast iron S&S as per IS : 3989	2.00	each	570.05	1140.00
	75 mm dia				
76	Sand cast iron S&S as per IS - 3989	2.00	each	390.5	781.00
77	Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete :				
	100x100x100x100 mm				
	Sand cast iron S&S as per IS - 3989	2.00	each	1103.10	2206.00

Addition : NIL

Overwriting : NIL

Deletion : NIL

AE (E)-(P)

AE(C)-(P)

78	Providing and fixing single unequal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete :				
	100x100x75 mm				
	Sand cast iron S&S as per IS - 3989	2.00	each	1146.20	2292.00
79	Providing and fixing collar :				
	100 mm				
	Sand cast iron S&S as per IS - 3989	2.00	each	513.15	1026.00
80	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				
	100 mm inlet and 100 mm outlet				
	Sand cast iron S&S as per IS: 3989	2.00	each	1996.50	3993.00
81	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	10.00	each	168.35	1684.00
82	Providing and fixing PTMT urinal cock of approved quality and colour.				
	15 mm nominal bore, 80 mm long, 42 mm high and 30mm wide with BSP female threads weighing not less than 48 gms.	5.00	each	175.40	877.00
83	Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge.	2.00	each	18212.90	36426.00
84	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall				
	15 mm nominal dia Pipes	10.00	metre	286.8	2868.00
85	20 mm nominal dia Pipes	10.00	metre	335.00	3350.00
86	25 mm nominal dia Pipes	10.00	metre	401.55	4016.00
87	32 mm nominal dia Pipes	10.00	metre	518.75	5188.00
88	40 mm nominal dia Pipes	10.00	metre	702.95	7030.00
89	50 mm nominal dia Pipes	10.00	metre	934.15	9342.00
90	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of				

Addition : NIL

Overwriting : NIL

Deletion : NIL

AE (E)-(P)

AE(C)-(P)

	cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls				
	15 mm nominal dia. Pipes	10.00	metre	497.8	4978.00
91	20 mm nominal dia. Pipes	10.00	metre	537.6	5376.00
92	25 mm nominal dia. Pipes	10.00	metre	627.25	6273.00
93	32 mm nominal dia. Pipes	10.00	metre	739.3	7393.00
94	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
	25 mm nominal bore	5.00	each	622.4	3112.00
95	32 mm nominal bore.	5.00	each	689.6	3448.00
96	40 mm nominal bore	2.00	each	826.1	1652.00
97	50 mm nominal bore	2.00	each	1026.65	2053.00
98	65 mm nominal bore	5.00	each	1742.15	8711.00
99	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
	15 mm nominal bore	5.00	each	406.85	2034.00
100	25 mm nominal bore	5.00	each	464.05	2320.00
101	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	45 cm length				
102	15 mm nominal bore	50.00	each	97.75	4888.00
103	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball.				
	15 mm nominal bore, 105 mm long, weighing not less than 138 gms	10.00	each	182.10	1821.00
104	50 mm nominal bore, 242mm long, weighing not less than 1240 gms	10.00	each	1375.95	13760.00
105	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.				
	15 mm nominal bore with 45 cm length	10.00	each	121.90	1219.00
106	Dismantling old C.I. pipes including excavation and refilling trenches after taking out the pipes, breaking lead caulked joints, melting of lead and making into blocks, including stacking of pipes at site lead up to 50 metre:				
	100 mm diameter C.I. pipe	2.00	metre	332.50	665.00
107	150 mm diameter C.I. pipe	5.00	metre	365.45	1827.00
108	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling,				

Addition : NIL

Overwriting : NIL

Deletion : NIL

AE (E)-(P)

AE(C)-(P)

	C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
	For fixed portion				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	144.00	kg	530.90	76450.00
109	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	206.80	kg	539.85	111641.00
110	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	150.00	kg	634.45	95168.00
111	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	180.60	kg	643.45	116207.00
112	Providing and fixing 12 mm thick prelaminate particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.				
	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side	75.00	sqm	1139.30	85448.00
113	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	43.20	sqm	1505.25	65027.00
114	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.				
	With stainless steel cover plate minimum 1.25 mm thickness	5.00	each	2823.85	14119.00
115	Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge.				
	Polyester powder coated minimum thickness 50 micron aluminium tubular handle bar	5.00	each	645.5	3228.00

116	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete.				
	Polyester powder coated minimum thickness 50 micron aluminium	10.00	each	95.1	951.00
117	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).	27.00	kg	638.35	17235.00
118	Supplying and applying bituminous solution primer on roof and / or wall surface at 0.24 litre per sqm.	165.00	sqm	59.45	9809.00
	Total				3196959.00
	Modified estimated cost after using correction factor on DSR'2023 on account of GST @ 0.973	3196959.00	x	0.973	3110641.00
	Add Cost Index @4.03%				125359.00
	Total				3236000.00
119	Disposal of building rubbish, earth mixed malba, plastic bags & all type of floating, solid and semi-solid malba/rubbish etc by mechanical transport fitted with GPS Mechanism including loading and unloading and spreading with all leads and lifts upto nearest authorised MCD dumping ground complete as per the direction of Engineer-in-charge (Payment shall be made on production of print out of GPS Mechanism & MCD receipt for payment of ground tax. MCD dumping ground tax, if any, shall be reimbursed separately on production of receipt).	150.00	MT	455.10	68265.00
	Supplying and stacking of following materials of approved brand and shade as per list for day-to-day maintenance at the store of respective Assistant Engineer of respective sub division of RML Hospital (50% of whole quantity shall be supplied immediately at the start of work with respective Assistant Engineer).				
120	Glass sheet (Pin headed) 4 mm thick	7.00	sqm	373.00	2611.00
121	PTMT Swiveling shower 15 mm	20.00	each	70.00	1400.00
122	Brass bib-cock 15 mm dia	25.00	each	230.00	5750.00
123	600x120 mm glass shelf with anodised aluminium angle frame, C.P. brass brackets and guard rail of standard size	25.00	each	306.00	7650.00
124	Portland Cement (OPC-43 Grade)	4.00	tonne	5156.00	20624.00
125	White cement	0.50	tonne	10500.00	5250.00
126	Anodised aluminium sliding door bolt 250x16mm	200.00	each	130.00	26000.00
127	Anodised Aluminium tower bolt (barrel type) 250x10 mm	25.00	10 nos.	505.00	12625.00

Addition : NIL

Overwriting : NIL

Deletion : NIL

AE (E)-(P)

AE(C)-(P)

128	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	25.00	10 nos.	335.00	8375.00
129	Anodised Aluminium handles 100 mm with plate 150 x 32 mm	25.00	10 nos.	290.00	7250.00
130	Anodised Aluminium handles 75mm with plate 125 x 32 mm	25.00	10 nos.	245.00	6125.00
131	Putty for wood work	10.00	kg	32.00	320.00
132	8 mm dia C.P./ SS Jet with flexible tube upto 1 meter long with SS tringular palte for European type WC	2.00	each	220.00	440.00
133	Mirror of superior make glass 60x45 cm	100.00	each	450.00	45000.00
134	SCI soil, waste and vent single socketed pipe 1.8 metre long 75 mm dia IS:3989	2.00	each	1100.00	2200.00
135	SCI soil, waste and vent single socketed pipe 1.8 metre long 100 mm dia IS:3989	2.00	each	1200.00	2400.00
136	SCI plain bend 100mm IS:3989	2.00	each	300.00	600.00
137	SCI bend with access door 100mm IS:3989	2.00	each	310.00	620.00
138	SCI single equal junction 100x100x100mm IS:3989	10.00	each	460.00	4600.00
139	Unplasticised P.V.C. connection pipe with brass union 45 cm long 15 mm bore	2.00	each	38.00	76.00
140	100mm SCI trap with 100mm inlet and 100 mm outlet IS:3989	2.00	each	330.00	660.00
141	U-PVC pipes (Working pressure 4kg/cm2) single socketed pipe 75mm dia	50.00	metre	74.00	3700.00
142	U-PVC pipes (Working pressure 4kg/cm2) single socketed pipe 110mm dia	100.00	metre	142.00	14200.00
143	PTMT Bib cock with flange (Fancy) -15mm nominal bore	10.00	each	95.00	950.00
144	15 mm PTMT bib cock long body with flange	10.00	each	106.00	1060.00
145	15 mm dia PTMT stop cock (male thread)	10.00	each	65.00	650.00
146	PTMT - Waste Coupling 38/40 mm	2.00	each	40.00	80.00
147	PTMT ball cock 15mm complete with Epoxy coated almunium rod & H.D. Ball	10.00	each	79.00	790.00
148	PTMT Ball Cock 50mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	10.00	each	894.00	8940.00
149	PTMT Angle Stop cock with Flange 15 mm	2.00	each	92.00	184.00
150	PTMT - Towel Rail (450 mm long)	2.00	each	132.00	264.00
151	PTMT - Towel Rail (600 mm long)	2.00	each	157.00	314.00
152	PTMT Shelf 450x124x36 mm	10.00	each	160.00	1600.00
153	PTMT Soap Dish/Holder 138x102x75 mm	10.00	each	63.00	630.00
154	Vitreous china flat back wash basin 630x450 mm	10.00	each	798.00	7980.00
155	Float glass panes of nominal thickness 5 mm (weight not less than 12.50 kg/sqm)	29.00	Sqm	529.00	15341.00
156	Ply wood 5 ply with commercial ply on both faces 6 mm thick	50.00	Sqm.	321.00	16050.00
157	12mm commercial ply	25.00	sqm	527.00	13175.00
158	18 mm thick block board with commercial ply veneering on both side	25.00	sqm	792.00	19800.00

Addition : NIL

Overwriting : NIL

Deletion : NIL

AE (E)-(P)

AE(C)-(P)

159	Stainless steel wire guage (Grade-304) aperture 1.4mm and 0.50 mm dia wire	40.00	Sqm	260.00	10400.00
160	Aluminium hanging floor door stopper with twin rubber & stopper	10.00	each	44.00	440.00
161	Hydraulic door closer tubular type Aluminium section body	30.00	each	600.00	18000.00
162	Flexible (coil shaped) PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings prayag or equivalent made.	100.00	each	38.00	3800.00
163	Flexible (coil shaped) PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings prayag or equivalent made.	2.00	each	38.00	76.00
164	32mm size CP Bottle Trap	50.00	each	682.00	34100.00
165	C.P. Brass long body bibcock 15 mm	50.00	each	530.00	26500.00
166	C.P. Brass stop cock (conceaed) 15 mm	5.00	each	445.00	2225.00
167	C.P. Brass angle valve 15 mm	50.00	each	378.00	18900.00
168	EPDM Gasket for UPVC window/door	100.00	Metre	16.00	1600.00
169	Ceremic glazed tiles 1st quality 300x300mm in all shades and design of white, Ivory, Grey, Fume red brown etc.	25.00	sqm	200.00	5000.00
170	Stainless steel butt hinges (heavy weight) 125x64x2.5 mm IS :12817 marked	80.00	10 Nos	470.00	37600.00
171	Stainless steel butt hinges (heavy weight) 100x60x2.5 mm IS :12817 marked	160.00	10 Nos	345.00	55200.00
172	Stainless steel butt hinges (heavy weight) 75x50x2.5 mm IS :12817 marked	200.00	10 Nos	290.00	58000.00
173	Wooden screws with plastic rawl plugs 35x8 mm	4000.00	each	1.50	6000.00
174	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia (Prayag or equivalent)	90.00	metre	59.00	5310.00
175	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia (Prayag or equivalent)	80.00	metre	95.00	7600.00
176	Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm nominal dia (Prayag or equivalent)	80.00	metre	140.00	11200.00
177	Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm nominal dia (Prayag or equivalent)	10.00	metre	200.00	2000.00
178	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm nominal dia (Prayag or equivalent)	5.00	metre	325.00	1625.00
179	Chlorinated Polyvinyl - chloride (CPVC) pipe 65 mm nominal dia (Prayag or equivalent)	5.00	metre	776.00	3880.00
180	Female adoptor (Brass threaded) 20mm	50.00	each	187.12	9356.00
181	Female adoptor (Brass threaded) 25mm	50.00	each	356.30	17815.00
182	CPVC Coupling (Socket) 20mm	25.00	each	13.22	331.00
183	CPVC Coupling (Socket) 25mm	25.00	each	21.58	540.00
184	CPVC Coupling (Socket) 32mm	25.00	each	43.02	1075.00
185	CPVC Coupling (Socket) 40mm	5.00	each	75.85	379.00
186	CPVC Coupling (Socket) 50mm	5.00	each	165.69	828.00
187	CPVC Coupling (Socket) 65mm	5.00	each	469.70	2348.00
188	CPVC Tee 15mm	25.00	each	18.09	452.00

Addition : NIL

Overwriting : NIL

Deletion : NIL

AE (E)-(P)

AE(C)-(P)

189	CPVC Tee 20mm	25.00	each	24.62	616.00
190	CPVC Tee 25mm	10.00	each	39.45	394.00
191	CPVC Tee 32mm	25.00	each	85.12	2128.00
192	CPVC Tee 40mm	5.00	each	155.05	775.00
193	CPVC Tee 50mm	5.00	each	317.69	1588.00
194	CPVC Tee 65mm	5.00	each	1033.63	5168.00
195	CPVC Reducer coupling 20x15mm	25.00	each	16.72	418.00
196	CPVC Reducer coupling 25x20mm	25.00	each	29.64	741.00
197	CPVC Union 20mm	2.00	each	71.44	143.00
198	CPVC Union 25mm	25.00	each	88.16	2204.00
199	CPVC Union 32mm	25.00	each	142.88	3572.00
200	CPVC Union 40mm	25.00	each	234.09	5852.00
201	CPVC Union 50mm	2.00	each	416.49	833.00
202	CPVC Union 65mm	2.00	each	899.87	1800.00
203	CPVC Elbow 90 degree 15mm	25.00	each	12.77	319.00
204	CPVC Elbow 90 degree 20mm	25.00	each	15.12	378.00
205	CPVC Elbow 90 degree 25mm	25.00	each	30.25	756.00
206	CPVC Elbow 90 degree 32mm	25.00	each	68.33	1708.00
207	CPVC Elbow 90 degree 40mm	2.00	each	124.95	250.00
208	CPVC Elbow 90 degree 50mm	2.00	each	256.89	514.00
209	CPVC solvent 50ml	25.00	50ml	68.40	1710.00
210	CPVC Solvent (04 OZ/118)	25.00	118ml	150.01	3750.00
211	Supply of Health Faucets with Wall hook and 1 Meter CP Brass	250.00	each	912.03	228008.00
212	CP Brass Towel Ring	25.00	each	684.02	17101.00
213	CP Brass Toilet Paper Holder	25.00	each	1140.04	28501.00
214	CP Brass Bottle Taps 7"	25.00	each	1672.06	41801.00
215	Glass Shelf 500x125 mm (Drop)	25.00	each	1126.36	28159.00
216	ABS Soap Dispenser Round 400ml (GBEA-493B)	25.00	each	1368.05	34201.00
217	Siphon kit	25.00	Each	452.21	11305.00
218	Supply of stainless steel kitchen sink jali 4" of approved quality.	100.00	each	94.24	9424.00
219	Supply of Aluminium wall hanger minimum 6 hook of approved quality.	50.00	each	341.25	17063.00
220	Cistern ball cock	5.00	each	26.60	133.00
221	CP Towel Rail	50.00	each	950.03	47502.00
222	Hecksaw Blade	25.00	each	7.60	190.00
223	Mortice Lock	100.00	each	1133.20	113320.00
224	M seal (100 gm pkt.)	100.00	pkt	21.28	2128.00
225	CP Brass Head shower round with arm 100mm	25.00	each	1254.04	31351.00
226	Supply of PVC Over head tank cover of approved quality.	5.00	each	323.01	1615.00
227	Shoot Gola in gole (24 gole in one pkt)	200.00	each	18.24	3648.00
228	Taflon Tape	60.00	each	25.84	1550.00
229	Supply of PVC Long Bend of approved quality (32mm)	5.00	each	19.00	95.00
230	Basin Mixture	8.00	each	5928.20	47426.00
231	L Vihari hinges (Slip on hinges)	70.00	each	42.56	2979.00

Addition : NIL

Overwriting : NIL

Deletion : NIL

AE (E)-(P)

AE(C)-(P)

232	Attending any type of complaints regarding Sewer Lines and Drainage in Dr. RML Hospital by deploying Sewer man in shift of 8 hours, as per direction of Engineer-in-charge. The contractor shall arrange all normal T&P, Sewer Pump and Bamboo, Khappachi, Iron rod and Extra Sewer man (as and when required) for attending the complaints and nothing extra shall be paid on this account, the contractor shall take all precaution and measures for the safety of workers while carrying out the work and nothing extra shall be paid on this account. The consumable item for work shall be Provided by the contractor as per direction of Engineer-in charge complete. Note (A): Monthly payment to each and every worker as per this NIT/ Agreement is to be mandatorily done by the agency latest by 5th of each month (for work done by the worker of previous month) as per the prevailing minimum wages as notified time to time by the Labour Department of Central Govt. or local govt. whichever wages is higher. If minimum wages are increased in between the running of agreement the agency shall have to pay accordingly higher wages to the workers and difference under respective clause of the agreement may be claimed by the agency from the department in due course. In case of non- fulfillment of this condition of monthly payment as per applicable minimum wages by the agency to the worker engaged, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency.				
	Note (B):- Payment of ESI &EPF shall be made latest by 15th of the coming month of which salary has been paid to the worker.				
	Documentary evidence for the same shall be submitted by the agency along with running and/or final bill. In case of non- fulfillment of this condition, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency. All other terms & conditions of this NIT shall remain same. Note (C): KYC with respect to ESI & EPF shall have to be done by the agency within 30 days of date of start of work. Note (D): The payment of Arrears on A/c of increase in wages in between running of agreement shall have to be made to each engaged Staff / worker within one month of issuing of Circular by Labour Department of Central Govt. or local govt. whichever wages is higher. In case of non- fulfillment of this condition, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency.	36.00	Per Job Per Month	29764.70	1071529.00
233	Attending any type of complaints regarding Carpentry/ Wood work/ Aluminium work in Dr. RML Hospital by deploying Carpenter or aluminium Fitter in shift of 8 hours as per direction of Engineer-in-charge, the contractor shall arrange all normal T&P for attending the complaints and nothing extra shall be paid on this account, the contractor shall take all precaution and	12.00	Per Job Per month	33039.90	396479.00

Addition : NIL

Overwriting : NIL

Deletion : NIL

AE (E)-(P)

AE(C)-(P)

	measures for the safety of workers while carrying out the work and nothing extra shall be paid on this account. The consumable item for work shall be Provided by the contractor as per direction of Engineer-in charge complete. Note (A): Monthly payment to each and every worker as per this NIT/ Agreement is to be mandatorily done by the agency latest by 5th of each month (for work done by the worker of previous month) as per the prevailing minimum wages as notified time to time by the Labour Department of Central Govt. or local govt. whichever wages is higher. If minimum wages are increased in between the running of agreement the agency shall have to pay accordingly higher wages to the workers and difference under respective clause of the agreement may be claimed by the agency from the department in due course. In case of non- fulfillment of this condition of monthly payment as per applicable minimum wages by the agency to the worker engaged, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency. Note (B):- Payment of ESI & EPF shall be made latest by 15th of the coming month of which salary has been paid to the worker. Documentary evidence for the same shall be submitted by the agency along with running and/or final bill. In case of non- fulfillment of this condition, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency. All other terms & conditions of this NIT shall remain same. Note (C): KYC with respect to ESI & EPF shall have to be done by the agency within 30 days of date of start of work. Note (D): The payment of Arrears on A/c of increase in wages in between running of agreement shall have to be made to each engaged Staff / worker within one month of issuing of Circular by Labour Department of Central Govt. or local govt. whichever wages is higher. In case of non- fulfillment of this condition, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency.				
234	Helping to Plumber, Sewerman, Carpenter by deploying a helper (Beldar) in shift of 8 hours, as per direction of Engineer-in-charge. The consumable item for work shall be Provided by the contractor as per direction of Engineer-in charge complete. Note (A): Monthly payment to each and every worker as per this NIT/ Agreement is to be mandatorily done by the agency latest by 5th of each month (for work done by the worker of previous month) as per the prevailing minimum wages as notified time to time by the Labour Department of Central Govt. or local govt. whichever wages is higher. If minimum wages are increased in between the running of agreement the agency shall have to pay accordingly higher wages to the workers and difference under respective clause of the	72.00	Per Job Per month	29764.70	2143058.00

	agreement may be claimed by the agency from the department in due course. In case of non- fulfillment of this condition of monthly payment as per applicable minimum wages by the agency to the worker engaged, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency. Note (B):- Payment of ESI &EPF shall be made latest by 15th of the coming month of which salary has been paid to the worker. Documentary evidence for the same shall be submitted by the agency along with running and/or final bill. In case of non- fulfillment of this condition, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency. All other terms & conditions of this NIT shall remain same. Note (C): KYC with respect to ESI & EPF shall have to be done by the agency within 30 days of date of start of work. Note (D): The payment of Arrears on A/c of increase in wages in between running of agreement shall have to be made to each engaged Staff / worker within one month of issuing of Circular by Labour Department of Central Govt. or local govt. whichever wages is higher. In case of non- fulfillment of this condition, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency.				
235	Attending day to day routine complaints related to welding works, excluding Sunday and National Holidays, by using electric welding plant, gas cutter, welding rods (ISI) including hire charges of welding plant, cost of welding rods, transportation of plant at site and carrying out other associated operations for attending the complaints to entire satisfaction at all levels and at all heights at RML Division from 9.00 AM to 5.00 PM. (Cost of all the T & P such as welding plant, welding rods, electric cables etc. to be borne by agency) complete as per the direction of Engineer-in-charge. Note (A): Monthly payment to each and every worker as per this NIT/ Agreement is to be mandatorily done by the agency latest by 5th of each month (for work done by the worker of previous month) as per the prevailing minimum wages as notified time to time by the Labour Department of Central Govt. or local govt. whichever wages is higher. If minimum wages are increased in between the running of agreement the agency shall have to pay accordingly higher wages to the workers and difference under respective clause of the agreement may be claimed by the agency from the department in due course. In case of non- fulfillment of this condition of monthly payment as per applicable minimum wages by the agency to the worker engaged, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency.	12.00	per day	1741.40	20897.00

	Note (B):- Payment of ESI & EPF shall be made latest by 15th of the coming month of which salary has been paid to the worker. Documentary evidence for the same shall be submitted by the agency along with running and/or final bill. In case of non- fulfillment of this condition, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency. All other terms & conditions of this NIT shall remain same. Note (C): KYC with respect to ESI & EPF shall have to be done by the agency within 30 days of date of start of work. Note (D): The payment of Arrears on A/c of increase in wages in between running of agreement shall have to be made to each engaged Staff / worker within one month of issuing of Circular by Labour Department of Central Govt. or local govt. whichever wages is higher. In case of non- fulfillment of this condition, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency.				
236	Attending any type of complaints regarding Mason work in Dr. RML Hospital by deploying mason in shift of 8 hours as per direction of Engineer-in-charge, the contractor shall arrange all normal T&P for attending the complaints and nothing extra shall be paid on this account, the contractor shall take all precaution and measures for the safety of workers while carrying out the work and nothing extra shall be paid on this account, The consumable item for work shall be Provided by the contractor as per direction of Engineer-in charge complete. Note (A): Monthly payment to each and every worker as per this NIT/ Agreement is to be mandatorily done by the agency latest by 5th of each month (for work done by the worker of previous month) as per the prevailing minimum wages as notified time to time by the Labour Department of Central Govt. or local govt. whichever wages is higher. If minimum wages are increased in between the running of agreement the agency shall have to pay accordingly higher wages to the workers and difference under respective clause of the agreement may be claimed by the agency from the department in due course. In case of non- fulfillment of this condition of monthly payment as per applicable minimum wages by the agency to the worker engaged, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency.	12.00	Per month	33039.90	396479.00

	Note (B):- Payment of ESI & EPF shall be made latest by 15th of the coming month of which salary has been paid to the worker. Documentary evidence for the same shall be submitted by the agency along with running and/or final bill. In case of non- fulfillment of this condition, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency. All other terms & conditions of this NIT shall remain same. Note (C): KYC with respect to ESI & EPF shall have to be done by the agency within 30 days of date of start of work. Note (D): The payment of Arrears on A/c of increase in wages in between running of agreement shall have to be made to each engaged Staff / worker within one month of issuing of Circular by Labour Department of Central Govt. or local govt. whichever wages is higher. In case of non- fulfillment of this condition, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency.				
237	Attending any type of complaints regarding Plumbing work/Water supply in Dr. RML Hospital by deploying Plumber in shift of 8 hours, as per direction of Engineer-in-charge, the contractor shall arrange all normal T&P and Extra Plumber (as and when required) to attend the complaints and nothing extra shall be paid on this account, the contractor shall take all precaution and measures for safety of workers while carrying out the work and nothing extra shall be paid on this account. The consumable item for work shall be Provided by the contractor as per direction of Engineer-in charge complete. Note (A): Monthly payment to each and every worker as per this NIT/ Agreement is to be mandatorily done by the agency latest by 5th of each month (for work done by the worker of previous month) as per the prevailing minimum wages as notified time to time by the Labour Department of Central Govt. or local govt. whichever wages is higher. If minimum wages are increased in between the running of agreement the agency shall have to pay accordingly higher wages to the workers and difference under respective clause of the agreement may be claimed by the agency from the department in due course. In case of non- fulfillment of this condition of monthly payment as per applicable minimum wages by the agency to the worker engaged, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency. Note (B):- Payment of ESI & EPF shall be made latest by 15th of the coming month of which salary has been paid to the worker. Documentary evidence for the same shall be submitted by the agency along with running and/or final bill. In case of non- fulfillment of this condition, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency. All other terms & conditions of this NIT shall	36.00	Per Job Per month	33039.90	1189436.00

	remain same. Note (C): KYC with respect to ESI & EPF shall have to be done by the agency within 30 days of date of start of work. Note (D): The payment of Arrears on A/c of increase in wages in between running of agreement shall have to be made to each engaged Staff / worker within one month of issuing of Circular by Labour Department of Central Govt. or local govt. whichever wages is higher. In case of non- fulfillment of this condition, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency.				
238	Providing services of enquiry clerk by Attending complaints from CPWD E-Sewa or telephonically and distributing the same to assigned labours as per direction of Engineer-in charge complete. Note (A): Monthly payment to each and every worker as per this NIT/ Agreement is to be mandatorily done by the agency latest by 5th of each month (for work done by the worker of previous month) as per the prevailing minimum wages as notified time to time by the Labour Department of Central Govt. or local govt. whichever wages is higher. If minimum wages are increased in between the running of agreement the agency shall have to pay accordingly higher wages to the workers and difference under respective clause of the agreement may be claimed by the agency from the department in due course. In case of non- fulfillment of this condition of monthly payment as per applicable minimum wages by the agency to the worker engaged, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency. Note (B):- Payment of ESI &EPF shall be made latest by 15th of the coming month of which salary has been paid to the worker. Documentary evidence for the same shall be submitted by the agency along with running and/or final bill. In case of non- fulfillment of this condition, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency. All other terms & conditions of this NIT shall remain same. Note (C): KYC with respect to ESI & EPF shall have to be done by the agency within 30 days of date of start of work. Note (D): The payment of Arrears on A/c of increase in wages in between running of agreement shall have to be made to each engaged Staff / worker within one month of issuing of Circular by Labour Department of Central Govt. or local govt. whichever wages is higher. In case of non- fulfillment of this condition, Rs. 5000/- (nonrefundable) per worker per default on this account shall be recovered from the agency.	12.00	Per Job Per month	36279.10	435349.00
239	Providing and fixing rimless wall hung water closet of approved brand/make, shape, of size 355x555x370mm with antiger glaze pattern with dual flushing system, having concealed cistern and flush plate including all	5.00	each	29992.00	149960.00

Addition : NIL

Overwriting : NIL

Deletion : NIL

AE (E)-(P)

AE(C)-(P)

	fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge.				
Total					1,04,19,433.00

-sd-
Executive Engineer (C)
Dr. RML Hospital Division,
New Delhi-110002

Assistant Engineer (P) (C)
DC-9, CPWD,
IP Bhawan, New Delhi.

Superintending Engineer
DC-9, CPWD,
IP Bhawan, New Delhi.

केंद्रीय लोक निर्माण Central Public Works Department					
एन0आई0टी0 / N.I.T. No.:-		11/SE/DC-9/2026-27			
कार्य का नाम / Name of Work / Description:-		A/R & M/O Various Electrical and mechanical service of New Doctor's Hostel at ABVIMS at Dr. RML Hospital New Delhi during 2026-27. (Electrical Work & Civil Work).			
कार्य की अनुसूची SCHEDULE OF QUANTITY					
ठेकेदार का नाम / Name of the Contractor					
क0 सं0 Sl. No.	घटक का प्रकार Name of Component	अनुमानित लागत Estimated cost (In Rupees)	अनुमानित लागत संख्या ऊपर या नीचे प्रतिशत में Percentage above or below the estimated cost	अंको में %in Figures	कुल लागत Total Cost
1	As per SOQ (E&M)	3,06,60,845/-			
2	Credit for Dismantled materials as per SOQ (Electrical)	1,21,870/-			
3	As per SOQ (Civil)	1,04,19,433/-			
	कुल योग / Grand Total	4,09,58,408/-			
Note: The bidder is required to quote the percentage for Sl. Nos. 2 either "at par" or "above". If the bidder quotes the percentage "below", the same shall be considered "at par" and the bid shall be evaluated accordingly.					