

INDEX

कार्य का नाम:	वर्ष 2026-27 के दौरान के.जी. मार्ग, नई दिल्ली स्थित संकल्प भवन का व्यापक अनुरक्षण।
<u>Name of Work:</u>	उपशीर्षक –I विभिन्न विद्युत एवं यांत्रिक सेवाओं का संचालन एवं अनुरक्षण।
	उपशीर्षक–II सिविल कार्यों का वार्षिक मरम्मत एवं अनुरक्षण।
	Comprehensive Maintenance of Sankalp Bhawan, K.G. Marg, New Delhi during 2026-27 SH: (I) Operation & Maintenance of various E&M services for Electrical Works.
	SH: (II) Annual Repair & Maintenance of Civil works.

Sl. No.	CONTENTS	PAGE No.
1.	INDEX	1-2
2.	PART -A (Electrical Work)	3
3.	Information and instruction for bidder for e-tendering	4-7
4.	CPWD-6	8-11
5.	Format of Receipt of Deposition of Original EMD	12
6.	Brief Particulars of the Work	13
7.	Special Conditions for Association of Specialized Agencies	14-16
8.	Form – I, II & III	17-19
9.	CPWD-7/8	20-21
10.	Schedule for works	22-27
11.	General Terms & Conditions	28-30
12.	Additional Terms & Conditions of Contract	31-54
13.	Bank Guarantee Performa for PG	55-56
14.	Lists of Approved Makes	57
15.	Schedule of Quantity (SOQ)	58-60
16.	Part B (Civil Work)	61
17.	Proforma of Schedules	62-68
18.	REGISTER OF MATERIAL AT SITE (MAS)	69
19.	Monthly Progress Report	70
20.	Brief particulars of the work	71
21.	General conditions	72-75
22.	List approved labs	76
23.	Special conditions	77-79
24.	Additional Conditions	80-82

25.	Special Condition for Cement	83
26.	Special Condition for Paint	84-86
27.	LIST OF PREFERRED MAKE OF MATERIALS	87-90
28.	Schedule of Quantities	91-105

एनआईटी नं: **11/SE/VB/100/EE(E)/VBED/2026-27** रुपये 3,93,02,891/- (रुपये तीन करोड तिरानवे लाख दो हजार आठ सौ इक्यानवे मात्र) जिसमें पृष्ठ संख्या 1 से 105 है, को एतद् द्वारा अनुमोदित किया जाता है।

NIT No. **11/SE/VB/100/EE(E)/VBED/2026-27** for Rs. 3,93,02,891/- (Rupees Three Crore Ninety-Three Lakh Two Thousand Eight Hundred Ninety-One Only) only having Pages No. 1 to 105 is hereby approved.

In case there's a discrepancy between English & Hindi versions in any line of this NIT, the English version shall prevail.

सहायक अभियंता(पै.)(यो.)
Assistant Engineer (E))(P)
विज्ञानभवन/Vigyan Bhawan
के.लो.नि.पि., नई दिल्ली
CPWD, New Delhi

सहायक अभियंता(क्रि.)(यो.)
Assistant Engineer (C)(P)
विज्ञानभवन/Vigyan Bhawan
के.लो.नि.पि., नई दिल्ली
CPWD, New Delhi

अधीक्षक अभियंता/ Superintending Engineer
विज्ञान भवन/Vigyan Bhawan
के.लो.नि.पि. नई दिल्ली/CPWD, New Delhi

PART -A

(Electrical

Work)

ई-टेंडरिंग एवं वेबसाइट पर पोस्ट किए जाने हेतु संविदाकार के लिए जानकारी और निर्देश
INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING
 (खुली निविदाएं आमंत्रित करने के लिए लागू)
(Applicable for inviting Bids)

The Executive Engineer (E), Vigyan Bhawan Electrical Division, CPWD, Block-6, Jodhpur Officer Hostel, New Delhi-110003 (e-mail: deleeevbed.cpwd@nic.in) on behalf of the President of India invites online **Percentage Rate** e-tender in **single bid system** from **CPWD registered contractors enlisted in Composite Category of appropriate class / Buildings & Roads** for the following work:

क्रम संख्या/ Sl. No.	एनआईटीनं./NIT No.	कार्य का नाम एवं स्थान Name of Work & Location	अनुमानित लागत/Estimated Cost put to tender	अग्रिम धनराशि/Earnest Money	कार्य अवधि / Period of Completion	प्रेस नोटिस में निर्दिष्ट अनुसूच बली, ईएमडी, ई-टेंडर प्रसंस्करण शुल्क और अन्य दस्तावेज जमा करने की अंतिम तिथि और समय/ Last date & time of submission of bid, EMD, e-tender processing fee and other documents as specified in the press notice	बोली खोलने का समय और तिथि Time and date of opening of Bid
1	2	3	4	5	6	7	8
1	11/SE/VB/100/EE(E)/VBED/2026-27	वर्ष 2026-27 के दौरान के. जी. मार्ग, नई दिल्ली स्थित संकल्प भवन का व्यापक अनुरक्षण। उपशीर्षक -I विभिन्न विद्युत एवं यांत्रिक सेवाओं का संचालन एवं अनुरक्षण। उपशीर्षक-II सिविल कार्यों का वार्षिक मरम्मत एवं अनुरक्षण। Comprehensive Maintenance of Sankalp Bhawan, K.G. Marg, New Delhi during 2026-27 SH: (I) Operation & Maintenance of various E&M services for Electrical Works. SH: (II) Annual Repair & Maintenance of Civil works.	Rs. 3,93,02,891/-	Rs. 7,86,058/-	12 Months	01.10.2026 Upto 15:00 hrs	01.10.2026 15:30 hrs

- The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.

2. Information and Instructions for bidders posted on website shall form part of bid document and to be posted on website.
3. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website www.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.
4. 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 (E), VBED, 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. If the EMD is deposited in Subdivision office then it shall not be considered and tender shall be rejected.
5. 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.
6. 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.
7. Those contractors, who are not registered or have not updated their profile on the website mentioned above, are required to get registered / update their profile beforehand. The necessary training materials including the videos with step-to-step process are available on download section of <https://etender.cpwd.gov.in>
8. The intending bidder must have valid Class-III digital signature certificate with encryption key (combo type) to perform any operations / transactions on the e-tendering portal / website and the bidder should download and install the eMsigner on their system as per instructions available on download section of <https://etender.cpwd.gov.in>.
9. On opening date, the contractor can login and see the bid opening proves. After opening of bids, he will receive the competitor bid sheets.
10. Contractor can upload documents in the form of **JPG** format and **PDF** format.
11. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in pink 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. and bonus payable to workers under labour act. No reimbursement shall be made for taxes paid like GST etc. and Bonus payable under relevant Labour Act.

12. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
13. 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.
14. If the Contractor is found ineligible after opening of bids, his bid shall become invalid.
15. **As per DG Circular No. DG/Enlist. Rules-2023/10 dated 22.04.2024, the enlisted contractor will not be allowed to participate in tendering process without uploading the certificate of compulsory ERP Training.**
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. The contractor has to follow standard operating procedures and guidelines for construction & maintenance site for covid-19 outbreak issued vide OM No. 2/9/2020-WII/DG/169 dated 05.05.2020 with upto date modification available on CPWD website. It will also form as a part of the agreement.
18. The contract is proposed for a period of 24 months. However, the Department reserves the right to foreclose/terminate the contract after completion of one year, or at any time thereafter, based on the requirement of the client department, without payment of any compensation, damages or claims whatsoever, except for the work/services satisfactorily executed up to the date of foreclosure/termination.
19. 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 be allowed.
20. The minimum wage of labourers to be paid by contractor shall be the higher of the wage notified by the Govt. of India, Ministry of labour and that notified by the local administration for New Delhi/Delhi State.

List of Documents to be scanned and uploaded within the period of bid submission:-

- (i) Insurance Surety Bond, Demand Draft/ Account Payee Banker's Cheque / FDR/ Bank Guarantee of any commercial Bank against EMD.
- (ii) **Copy of receipt for deposition of original EMD issued from division office of any Executive Engineer, CPWD). If the EMD is deposited in Subdivision office then it shall not be considered and tender shall be rejected.**
- (iii) Copy of Enlistment Order of CPWD Contractor in Building and Road Category of appropriate category.
- (iv) Copy of 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.
- (v) GST Registration Certificate of the state in which work is to be taken up, if already obtained by the bidder. If the bidder has not obtained GST registration of the state in which work is to be taken up then he shall scan and upload following under taking along with other bid documents.
"If work is awarded to me, I/ We shall obtain GST registration Certificate of the state in which work is to be taken up, within one Months 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."
- (vi) An undertaking that "I/We undertake to submit the documents pertaining to the Associated Specialized Agency/Manufacturer/Authorized Service Agency/Service Provider

of the equipment, as per the eligibility criteria stipulated in the Special Conditions of the NIT, for association of the Specialized Agency within 15 (Fifteen) from the date of issue of the Letter of Intent (LoI). In case of failure to do so, the Department shall be at liberty to take appropriate action against me/us, including forfeiture of the Performance Guarantee absolutely. I/We further undertake to complete all formalities for association of the Specialized Agency strictly in accordance with the provisions contained in the Special Conditions for Association of Specialized Agencies."

- (vii) Copy of PAN Card
- (viii) The agency should upload Bank Account Details registered with his firm like Bank name, A/c Number, IFSC Code, A/c name on blank paper/firm letter head with valid email ID and Mobile No. or Bank Pass Book having details of Account
- (ix) Copy of certificate of compulsory ERP Training issued through LMS of ERP obtained by enlisted contractor either himself or his authorized representative.
- (x) Any other Document as specified in the NIT

कार्यपालक अभियंता(वै.)
विज्ञान भवन वैद्युत मंडल
के.लो.नि.वि., नई दिल्ली

भारत सरकार
Government of India
 केंद्रीय लोक निर्माण विभाग
Central Public works Department
 निविदा आमंत्रण सूचना
NOTICE INVITING TENDER

CPWD-6 FOR E-TENDERING

कार्यपालक अभियंता (वै.), वि.भ.वै.मं., के.लो.नि.वि., ब्लॉक-6, जोधपुर अधिकारी हॉस्टल, नई दिल्ली-110003 (ई-मेल: deleeevbed.cpwd@nic.in) भारत के राष्ट्रपति की ओर से निम्नलिखित कार्य के लिए **भवन और सड़कों की उपयुक्त श्रेणी में सीपीडब्ल्यूडी के अनुमोदित और पात्र पंजीकृत ठेकेदारों से ऑनलाईन प्रतिशत दर निविदाएँ आमंत्रित करते हैं:-**

The Executive Engineer (E), Vigyan Bhawan Electrical Division, CPWD, Block-6, Jodhpur Officer Hostel, New Delhi-110003 (e-mail: deleeevbed.cpwd@nic.in) on behalf of the President of India invites online **Percentage rate Composite Bid** e-tender from **CPWD registered contractors enlisted in Composite Category of appropriate class / Buildings & Roads** for the following work:

कार्य का नाम: वर्ष 2026-27 के दौरान के.जी. मार्ग, नई दिल्ली स्थित संकल्प भवन का व्यापक अनुरक्षण।
 उपशीर्षक -I विभिन्न विद्युत एवं यांत्रिक सेवाओं का संचालन एवं अनुरक्षण।
 उपशीर्षक-II सिविल कार्यों का वार्षिक मरम्मत एवं अनुरक्षण।

Name of Work: **Comprehensive Maintenance of Sankalp Bhawan, K.G. Marg, New Delhi during 2026-27 SH: (I) Operation & Maintenance of various E&M services for Electrical Works.**
SH: (II) Annual Repair & Maintenance of Civil works.

The enlistment of the contractor should be valid on the last date of submission of bids.

In case the last date of submission of bids is extended, the enlistment of contractor should be valid on the original date of submission of bids.

1. The work is estimated to cost is **Rs. 3,93,02,891/-** 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 (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website www.etender.cpwd.gov.in. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **12 Months** from the date of start as defined in schedule 'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.
4. The site for the work is available.
5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen from website www.etender.cpwd.gov.in free of cost.
6. After submission of the bid the contractor can re-submit revised bid any number of times or withdraw it before last date and time of submission of bid as notified. No post-tender modification is allowed by the tenderers except through negotiations, if required. In case, any tenderer does so, the tender will be rejected and the tenderer will be debarred for future tendering in CPWD for two years by the concerned enlisting authority (In case of CPWD enlisted contractor) and by the concerned CE/SE (In case of non-enlisted contractor).
7. While submitting the revised bid, bidder 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 time and date of submission of bid as notified.

8. When bids are invited in Three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted, then the bid submitted earlier shall become invalid.
9. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (for balance amount as prescribed) from any of the Commercial Banks (drawn in favour of **Executive Engineer (E), VBED, CPWD, New Delhi**) shall be scanned and uploaded on the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

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 lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any Commercial bank having validity for a period of 90 days for single bid works 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 on 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 CPWD and other documents scanned and uploaded are found in order.

The bid submitted shall be opened at **03:30 PM on 01.10.2026**

10. The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if:-
 - (i) The bidder is found ineligible.
 - (ii) The bidder does not upload scanned copies of all the documents stipulated in the Bid Document.
 - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.
 - (iv) If a tenderer does not quote any percentage above/below on the total amount of the tender or any section/sub head in percentage rate tender, then the tender shall be treated as invalid and will not be considered as lowest tenderer.
11. The contractor whose bid is finally accepted will be required to furnish **performance guarantee of 5% (Five Percent)** of the **Estimated Cost Put to Tender (ECPT) or quoted amount (Whichever is higher) 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 subcontractors, if any engaged by the contractor for the said work within the period specified in Schedule F.

- 11.1 **Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under point 11 above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount**

12. **The description of the work is as follows:**

वर्ष 2026-27 के दौरान के.जी. मार्ग, नई दिल्ली स्थित संकल्प भवन का व्यापक अनुरक्षण।

उपशीर्षक –I विभिन्न विद्युत एवं यांत्रिक सेवाओं का संचालन एवं अनुरक्षण।

उपशीर्षक–II सिविल कार्यों का वार्षिक मरम्मत एवं अनुरक्षण।

Comprehensive Maintenance of Sankalp Bhawan, K.G. Marg, New Delhi during 2026-27

SH: (I) Operation & Maintenance of various E&M services for Electrical Works.

SH: (II) Annual Repair & Maintenance of Civil works.

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

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable to rejection.
15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
17. No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the previous permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
18. **The bid for the works shall remain open for acceptance for a period of 30 days from the date of opening of bid in case of single bid system.**
- (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 and time (24 hours basis) of submission of bids, then the Government shall without prejudice to any

- other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
- (ii) If any tenderer withdraws his tender 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 and time (24 hours basis) of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
 - (iii) Withdrawal of the tender, by the tenderer, shall only be made through e-tender portal. Any other method i.e. through letter/ e-mail etc. shall not be considered.
 - (iv) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.
19. This notice inviting Bid shall form a part of the contract document. The successful bidder/ contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
- (a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 - (b) Standard **C.P.W.D. Form 7** or other Standard C.P.W.D. Form as applicable.
20. Integrity Pact: The contractor shall download the Integrity Pact, which is a part of tender documents, affix his signature in the presence of a witness, and upload the same while submitting online bids for all works of estimated cost put to tender equal or more than the threshold value given I Schedule-F. In the event of his failure to sign and upload the Integrity Pact along with other bid documents, his bid shall be rejected.
21. 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)/Assistant Engineer (E) (011-23022227/Fax: 011-23022164 e-mail: deleeevbed.cpwd@nic.in or ERP help line 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.

Executive Engineer (E)
VBED, CPWD, Jodhpur Officer Hostel
New Delhi-110003

FORMAT OF RECEIPT OF DEPOSITION OF ORIGINAL EMD

RECEIPT OF DEPOSITION OF ORIGINAL EMD (RECEIPT NO. / DATE)	
1.	NAME OF WORK: Comprehensive Maintenance of Sankalp Bhawan, K.G. Marg, New Delhi during 2026-27 SH: (I) Operation & Maintenance of various E&M services for Electrical Works. SH: (II) Annual Repair & Maintenance of Civil works.
2.	NIT NO. : 11/SE/VB/100/EE(E)/VBED/2026-27
3.	ESTIMATED COST :RS. 3,93,02,891/-
4.	AMOUNT OF EARNEST MONEY DEPOSIT :RS. RS. 7,86,058/-
5.	LAST DATE OF SUBMISSION OF BID : 01.10.2026
(*To be filled by NIT approving authority / EE at the time of issue of NIT and uploaded along with NIT)	
1.	NAME OF CONTRACTOR#
2.	FORM OF EMD#
3.	AMOUNT OF EARNEST MONEY DEPOSIT#
4.	DATE OF SUBMISSION OF EMD#
Signature, Name and Designation of EMD Receiving officer (EE/AE(P)/AAO) Along with Office Stamp	
(# To be filled by EMD receiving EE or NIT issuing EE as the case may be If the EMD is deposited in Subdivision office then it shall not be considered and tender shall be rejected.)	

1. The Executive Engineer receiving EMD in original form shall examine the EMD deposited by the bidder and shall issue a receipt of deposition of earnest money to the agency in a given format uploaded by tender inviting EE. The receipt may be issued by the AE(P)/AAO.
2. The original EMD receiving Executive Engineer shall release the EMD after verification from the e-tendering portal website (www.tenderwizard.com>tender free view>advance search>awarded tenders) that the particular contractor is not L-1 bidder and work is awarded.
3. The tender inviting Executive Engineer will call for original EMD of the L-1 bidder from EMD receiving Executive Engineer immediately.

BRIEF PARTICULARS OF THE WORK

1. **Salient details of the work for which tenders are invited are as under: -**

Sl.No.	Name of work	Estimated Cost	Period of Completion
1.	Comprehensive Maintenance of Sankalp Bhawan, K.G. Marg, New Delhi during 2026-27 SH: (I) Operation & Maintenance of various E&M services for Electrical Works. SH: (II) Annual Repair & Maintenance of Civil works.	Rs. 3,93,02,891/-	12 Months

1. The work is situated at Sankalp Bhawan, New Delhi.

2. General features and major components of the work are as under : -

Electrical Work

S.No	Description of times	locations
1	Maintenance of EI fans	For One Year
2	Operation of Sub-Station, DG Set & UPS	For One Year The work shall be executed only through a specialized firm fulfilling the eligibility as per prescribed criteria stipulated in the NIT.
3	Operation of Lift	For One Year The work shall be executed only through a specialized firm fulfilling the eligibility as per prescribed criteria stipulated in the NIT.
4	Operation & Maintenance of Fire Fighting System	For One Year The work shall be executed only through a specialized firm fulfilling the eligibility as per prescribed criteria stipulated in the NIT.
5	Operation & Comprehensive Maintenance of Fire Alarm & PA System	For One Year Comprehensive Maintenance Part of work shall be executed only through OEM of BOSCH make or its authorized service agency
6	Operation of STP & PHE and Comprehensive Maintenance of STP, PHE & RO System	For One Year The work shall be executed only through a specialized firm fulfilling the eligibility as per prescribed criteria stipulated in the NIT.
7	SITC of EV Charger	CPWD registered contractors enlisted in Composite Category of appropriate class / Buildings & Roads

SPECIAL CONDITIONS FOR ASSOCIATION OF SPECIALIZED AGENCIES

1. The main contractor should either himself meet the eligibility criteria as defined in the bid documents or he will have to Associate Agency for E&M specialized services and has to submit details of such agency(s) conforming eligibility condition as defined in the bid document to Engineer-in-charge of specialized work within 15 (Fifteen) days after issue of letter of Intent. Name of the agency(s) to be associated shall be approved by the competent authority for following specialized work.
2. The agency shall submit the similar work experience documents in respect of experience of having satisfactory completed similar works as defined below during last seven years ending previous date to the last date of submission of the bid.

S. No.	Eligibility Criteria for approval of specialized agency
1.	Sub-Station, DG Set & UPS (Estimated Cost Rs. 27,53,316/-)
	Three similar works each costing not less than Rs. 11,01,326/- Or Two similar works each costing not less than Rs. 16,51,990/- or One similar work of aggregate cost not less than Rs. 22,02,653/- Similar work shall mean works of "Operation of Sub-Station/DG Set"
2.	Lift (Estimated Cost Rs 42,94,560/-)
	Three similar works each costing not less than Rs. 17,17,824/- Or Two similar works each costing not less than Rs. 25,76,736/- or One similar work of aggregate cost not less than Rs. 34,35,648/- Similar work shall mean works of "Operation of Lift"
3.	Fire Fighting System (Estimated Cost Rs. 27,53,316/-)
	Three similar works each costing not less than Rs. 11,01,326/- Or Two similar works each costing not less than Rs. 16,51,990/- or One similar work of aggregate cost not less than Rs. 22,02,653/- Similar work shall mean works of "Operation of Fire Fighting System"
4.	Fire Alarm & PA System (Estimated Cost Rs. 35,82,240/-)
	Three similar works each costing not less than Rs. 14,32,896/- Or Two similar works each costing not less than Rs. 21,49,344/- or One similar work of aggregate cost not less than Rs. 28,65,792/- Similar work shall mean works of "Operation / Comprehensive Maintenance of Fire Detection and Alarm System"
Note	<i>The Comprehensive Maintenance Part of the work Fire Alarm System shall be executed through the OEM (Original Equipment Manufacturer) or its authorized service agency of "BOSCH" make only. The Main agency shall submit a valid Memorandum of Understanding (MoU) with the OEM/authorized service agency, within 15 (Fifteen) days after issue of letter of Intent, falling which the Performance Guarantee shall be forfeited absolutely.</i>
5.	STP & PHE & RO (Estimated Cost Rs. 50,78,628/-)
	Three similar works each costing not less than Rs. 20,31,451/- Or Two similar works each costing not less than Rs. 30,47,177/- or One similar work of aggregate cost not less than Rs. 40,62,902/- Similar work shall mean works of "Operation / Comprehensive Maintenance of STP/WTP System"

1. 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 last date of submission of tenders.
2. 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).
3. 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 taken action against me/us as per clause-3 of the applicable GCC of the agreement & may forfeit performance guarantee absolutely and also shall fulfill all the formalities for association of the specialized agencies as per the conditions mentioned in the **"Special Conditions for Association of Specialized Agencies"**.
4. The main contractor shall have to submit credential such as self attested copies of completion Certificates of Work Experience/Completion issued by client department of rank of Executive Engineer or equivalent clearly indicating of following details:
 - a. Name of work
 - b. Agreement No.
 - c. Estimated Cost
 - d. Tendered Cost
 - e. Final Value of Work Done
 - f. Date of Start
 - g. Stipulated date of Completion
 - h. Actual date of completion
 - i. Amount of compensation levied for delayed completion, if any
 - (i) Whether case of levy of compensation for delay has been decided or not
Yes/No
 - (ii) If decided, amount of compensation levied for delayed completion, if any
 - j. Amount of reduced rate items, if any
 - k. Performance Report

(i) Quality of work	Outstanding/Very Good/Good/Poor
(ii) Financial soundness	Outstanding/Very Good/Good/Poor
(iii) Technical Proficiency	Outstanding/Very Good/Good/Poor
(iv) Resourcefulness	Outstanding/Very Good/Good/Poor
(v) General Behaviour	Outstanding/Very Good/Good/Poor
 - l. Nature of work executed by firm. Copy of the final paid bill if the work is of mixed items involving other nature of works.

(In case some of above said details are not mentioned in the Completion certificate, the firm shall attach 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 after issue of letter of Intent. 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.

5. 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**.
6. 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.
7. 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).

8. All technical discussions during currency of the contract shall be attended by the Associated Specialized Agencies also alongwith the Main Contractor.
9. 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.
10. 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.
11. 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 **Sl. 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 **Sl. 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.

12. 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 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.
13. If private works are shown in support of eligibility, the Tax deducted at source (TDS) shall have to be submitted and uploaded alongwith the experience certificate and TDS amount should commensurate with the actual amount work done.

**Executive Engineer (E),
VBED, CPWD, New Delhi**

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

Name of work: Comprehensive Maintenance of Sankalp Bhawan, K.G. Marg, New Delhi during 2026-27 SH: (I) Operation & Maintenance of various E&M services for Electrical Works.

SH: (II) Annual Repair & Maintenance of Civil works.

1. I / We hereby give my consent to associate with M/s, for executing the of 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 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 Associate
Specialized 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 letter 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]

1. For the execution of Specialized Work(s)
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), CPWD, New Delhi. Any of us may appeal against the mediation to the **SE, VB, 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 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, shall be responsible for any failure of Associated agency. The action under clauses 2 and 3 shall be initiated and taken against the Main Contractor.

Signature of Main Contractor

Date:

Place:

Signature of Associated Specialized Agency

Date:

Place:

भारत सरकार GOVERNMENT OF INDIA**केन्द्रीय लोक निर्माण विभाग CENTRAL PUBLIC WORKS DEPARTMENT**राज्य STATE : **New Delhi**परिमंडल CIRCLE : **VB**शाखा BRANCH : **E& M**मंडल DIVISION : **VBED**अंचल ZONE : **ADG (Delhi)**उपमंडल SUB-DIVISION: **III**

कार्यों के लिए मद दर निविदा एवं संविदा

Percentage Rate Bid & Contract for Works

- (A) कार्य के लिए निविदा : वर्ष 2026-27 के दौरान के.जी. मार्ग, नई दिल्ली स्थित संकल्प भवन का व्यापक अनुरक्षण।
 Bid for the work of उपशीर्षक -I विभिन्न विद्युत एवं यांत्रिक सेवाओं का संचालन एवं अनुरक्षण।
 उपशीर्षक-II सिविल कार्यों का वार्षिक मरम्मत एवं अनुरक्षण।
 Comprehensive Maintenance of Sankalp Bhawan, K.G. Marg, New Delhi during 2026-27
 SH: (I) Operation & Maintenance of various E&M services for Electrical Works.
 SH: (II) Annual Repair & Maintenance of Civil works.

(i) Bids to be submitted online by **3.00 PM on 01.10.2026**(ii) To be opened on line in presence of bidders who may be present at **03.30 PM on 01.10.2026 in the office of Executive Engineer (E), VBED, CPWD, New Delhi.****निविदा / TENDER**

मैंने/हमने कार्य के लिए निविदा आमंत्रण सूचना, अनुसूची क,ख,ग,घ, ङ, और च, लागू विनिर्देश, नक्शे एवं डिजाइन, सामान्य नियम एवं निर्देश, ठेके के उपबंध, विशिष्ट शर्तें, दर अनुसूची एवं अन्य कागजात तथा ठेके की शर्तों में दिए गए नियम तथा निविदा कागजात में उल्लिखित अन्य बातों को पढ़ व जांच लिया है।

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

मैं/हम, एतद्वारा भारत के राष्ट्रपति के लिए अनुसूची 'च' में विनिर्दिष्ट समय के भीतर विनिर्दिष्ट कार्य, यथा-मात्राओं की अनुसूची तथा सभी संबंधित विनिर्देशों, डिजाइनों, नक्शों के अनुरूप तथा सामान्य नियमावली के नियम-1 और ठेके की शर्तों के खंड-11 में उल्लिखित लिखित अनुदेशों एवं ऐसी सामग्रियों, जो प्रदान की जाती है और उसके संबंध में, ऐसी शर्तें जो लागू हों, के अनुरूप निष्पादन हेतु निविदा देता हूँ/देते हैं।

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

We agree to keep the bid open for 30 (Thirty) days from the date of opening of bids in case of single bid system and not to make any modification in its terms and conditions.

₹ 5,07,009/- की धनराशि, धरोहर राशि के रूप में नकद/देजरी चालान रसीद/अनुसूचित बैंक की मॉग जमा रसीद/अनुसूचित बैंक की सावधी जमा रसीद/ अनुसूचित बैंक के डिमांड ड्राफ्ट/अनुसूचित बैंक द्वारा जारी बैंक गारंटी के रूप में एतद्वारा अग्रेषित की जाती है। यदि मैं/हम निर्धारित निष्पादन गारंटी को निर्धारित समय अवधि में प्रस्तुत करने में असफल रहते हैं तो मैं/हम यह मंजूर करते हैं कि भारत के उक्त राष्ट्रपति या उनके कार्यालय के उत्तराधिकारी किसी अन्य अधिकारी या उपचारी उपाय पर प्रतिकूल प्रभाव डाले बिना उक्त धरोहर राशि जब्त करने के लिए पूर्णतया स्वतंत्र होंगे। इसके अलावा, यदि मैं/हम विनिर्दिष्ट कार्य प्रारम्भ करने के असफल रहते हैं तो मैं/हम यह मंजूर करते हैं कि भारत के राष्ट्रपति या उनके कार्यालय के उत्तराधिकारी कानून में उपलब्ध किसी अन्य अधिकार या उपचारी उपाय पर प्रतिकूल प्रभाव डाले बिना उक्त धरोहर राशि, तथा निष्पादन गारंटी जब्त करने के लिए पूर्णतया स्वतंत्र होंगे अन्यथा उक्त धरोहर राशि निविदा कागजात के अनुसार उसमें निहित शर्तों व निबंधनों के अनुसार कार्यों के निष्पादन एवं आदिष्ट विचलनों को अनुसूची 'च' में वर्णित प्रतिशत से अनधिक व निविदा प्रपत्र के खण्डों 12.2 व 12.3 में निहित प्रावधानों के अनुसार निश्चित की जाने वाली दरों पर उस सीमा से अधिक के विचलनों के करने के लिए उनके द्वारा प्रतिभूति-निक्षेप के रूप में रोक ली जायेगी। इसके अतिरिक्त मैं/हम सहमत हैं कि बयाना राशि या बयाना राशि तथा उपर्युक्त निष्पादन गारंटी जब्त हो जाने के मामले में मुझे/हमें कार्य की पुनः निविदा प्रक्रिया में भाग लेने से रोक दिया जाएगा।

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. Further, if I/we fail to commence work as specified, I/we agree that President of India or his 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 and debarred for participation in the re-tendering process of the work.

A sum of **Rs. 5,07,009/-** is here by forwarded in Receipt Treasury Challan /Deposit at call Receipt of a Scheduled Bank /fixed deposit receipt of schedule bank/demand draft of a Scheduled bank/Bank Guarantee issued by a schedule bank, as earnest money. 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 his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the bid documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, upto maximum of the percentage mentioned in schedule 'F' and those in excess of that limit at the rates to be determined in accordance with the provision contained in clause 12.2 and 12.3 of the bid form.

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

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

मैं/हम एतद्वारा घोषणा करते हैं कि मैं/हम निविदा कागजातों, नक्शों और कार्य से संबंधित अन्य अभिलेखा को गुप्त/गोपनीय कागजात के रूप में रखेंगे और उनसे प्राप्त/ली गई जानकारी किसी अन्य को, जिन्हें मैं/हम सूचित करने के लिए प्राधिकृत हो, से भिन्न किसी को, नहीं बताएंगे या जानकारी को किसी ऐसे रूप में प्रयोग नहीं करेंगे जो राज्य की सुरक्षा के लिए प्रतिकूल हो।

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

तारीख Dated:

ठेकेदार के हस्ताक्षर Signature of Contractor

डाक पता Postal Address

साक्षी Witness : #

पता Address: #

उपजीविका Occupation : #

स्वीकृति /ACCEPTANCE

मैं भारत के राष्ट्रपति की ओर से तथा उनके लिए रु0:- '.....' (रुपये '.....') की राशि के लिए उपर्युक्त निविदा

(अधोलिखित पत्रों के अनुसार परिवर्तित) स्वीकार करता हूँ।

The above bid (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*).

नीचे दिए गए पत्र इस ठेका करार का हिस्सा होंगे।

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

i) *

ii) *

iii) *

भारत के राष्ट्रपति की ओर से तथा उनके लिए

For & on behalf of the President of India

हस्ताक्षर Signature

पदनाम Designation

तारीख Dated *

कार्यों की अनुसूचियां SCHEDULES FOR WORK

	अनुसूची 'क' SCHEDULE 'A'	:	
	मात्राओं की अनुसूची (संलग्न) Schedule of quantities (Enclosed)	:	As attached herewith

	अनुसूची 'घ' SCHEDULE 'D'		
	कार्य के लिए विशिष्ट आवश्यकताओं/दस्तावेज के लिए अतिरिक्त अनुसूची, यदि कोई हो Extra schedule for specification requirements/ document for the work, if any	:	NIL
	अनुसूची 'ङ' SCHEDULE 'E'		
1	ठेके की सामान्य शर्तों का संदर्भ Reference to General Conditions of contract.	:	General Conditions of Contract for maintenance Works – 2023 with upto date correction slip issued upto the previous day to last date of submission of the tender

(i)	कार्यकानामः Name of Work:-	:	वर्ष 2026-27 के दौरान के.जी. मार्ग, नई दिल्ली स्थित संकल्प भवन का व्यापक अनुरक्षण। उपशीर्षक –I विभिन्न विद्युत एवं यांत्रिक सेवाओं का संचालन एवं अनुरक्षण। उपशीर्षक–II सिविल कार्यों का वार्षिक मरम्मत एवं अनुरक्षण। Comprehensive Maintenance of Sankalp Bhawan, K.G. Marg, New Delhi during 2026-27 SH: (I) Operation & Maintenance of various E&M services for Electrical Works. SH: (II) Annual Repair & Maintenance of Civil works.
(ii)	कार्य की अनुमानित लागत Estimated cost of work:	:	Rs. 3,93,02,891/-
(iii)	धरोहर राशि Earnest money:	:	Rs. 7,86,058/-
(iv)	निष्पादन गारंटी Performance Guarantee :	:	(a) 5% of Tender Value or Estimated Cost Put to Tender (ECPT) (Whichever is higher) (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount
(v)	प्रतिभूति निक्षेपः Security Deposit:		2.5% of Tendered Value
	अनुसूची 'च' SCHEDULE 'F'		
	सामान्य नियम एवं दिशानिर्देशः General Rules & Directions.		
	निविदा आमंत्रण करने वाला प्राधिकारी Officer inviting tender	:	Executive Engineer (E) VBED, CPWD, New Delhi or his successor thereof

	परिभाषाएँ:—Definitions:		
2(v)	भारसाधक इंजीनियर Engineer-in-Charge	:	<i>Executive Engineer (E) VBED, CPWD, New Delhi or his success or thereof</i>
2(viii)	स्वीकार कर्ता प्राधिकारी Accepting Authority	:	<i>Superintending Engineer Vigyan Bhawan, CPWD, New Delhi or his successor thereof</i>
2(x)	अतिरिक्त और लाभों को पूरा करने के लिए सामग्रियों की लागत पर प्रतिशतता Percentage on cost of materials and labour to cover all overheads and profits.	:	15%

2(xi)	दरों की मानक अनुसूची Standard Schedule of Rates	:	<i>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</i>
2(xii)	विभाग Department	:	<i>Central Public Works Department</i>
9(ii)	मानक के.लो.नि.वि. ठेका फार्म, संशोधित और शोधित के.लो.नि.वि. फार्म Standard CPWD contract form	:	<i>CPWD form 7, GCC 2023 (Maint. Work) as modified and corrected upto the previous day to last date of submission of the tender.</i>
खण्ड—1 Clause 1			
(i)	स्वीकृति पत्र जारी होने की तारीख से निष्पादन गारंटी के प्रस्तुतीकरण के लिए अनुमत समय, दिनों में। Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance, in days	:	07 Days
(ii)	क्सटेंशन, दिनोंमें Maximum allowable extension with late fee @ 0.1% per day of performance guarantee amount beyond the period provided in (i) above	:	<i>03 Dayson written request of contractor stating the reason of delay in procuring performance guarantee to the satisfaction of Engineer-in-Charge.</i>
खण्ड—2 Clause 2			
	खण्ड 2 के तहत प्रतिकर निश्चित करने वाला प्राधिकारी	:	<i>Superintending Engineer Vigyan Bhawan, CPWD,</i>

Authority for fixing compensation under Clause 2	<i>New Delhi or his successor thereof</i>
--	---

खण्ड-2ए Clause 2A		
क्या खण्ड 2। क लागू होगा। Whether Clause 2A shall be applicable	:	<i>No</i>
खण्ड-5 Clause 5		
कार्य आरम्भ करने की तारीख की गणना के लिए स्वीकृति पत्र जारी होने की तारीख से दिनों की संख्या Number of days from the date of issue of letter of acceptance for reckoning date of start	:	<i>10 Days</i>

लक्ष्य मील-पत्थर। सारणी: लक्ष्य नीचे दी गई सारणी अनुसार
Table of Milestones: --As per Table given below

Sl. No.	Description of Milestone (Physical)	Time Allowed in Days (from date of start)	Amount to be withheld in case of non-achievement of milestone (Percentage of bid amount)
	----- N/A -----		

	कार्यनिष्पादितकरनेके लिए अनुमत्यसमय Time allowed for execution of work	:	<i>12 Months</i>
निर्णायकप्राधिकारी Authority to Decide :			
i.	Authority to convey the decision of shifting of milestone and extension of time	:	<i>Executive Engineer (E) VBED, CPWD, New Delhi or his successor thereof</i>
ii.	Authority to decide rescheduling of milestone and extension of time	:	<i>Superintending Engineer Vigyan Bhawan, CPWD, New Delhi or his successor thereof</i>
iii.	Shifting of data of start in case of delay in handling over of site	:	<i>Superintending Engineer Vigyan Bhawan, CPWD, New Delhi or his successor thereof</i>
Clause 5			
Clause applicable – (5 or 5A)		:	<i>Clause 5</i>
Proforma of Schedule Clause 5 Schedule of handing over of site			
Part	Portion of site	Description	Time Period for handing over reckoned from date of issue of letter of intent
Part A	Portion without any hindrance	All	As and when required
Part B	Portions with encumbrances	Nil	N.A.
Part C	Portions dependent on work of other agencies	Nil	N.A.
Clause 6			
Computerized Measurement Book (CMB)/Electronic Measurement Book (EMB)			
Mode of measurements		<i>EMB (Electronic Measurement Book) through ERP (As per circular DG/CON-Maintenance-2020/338 dt. 13.04.2023)</i>	

Clause7	
अंतरिम भुगतान के लिए पात्र होने के लिए अंतिम ऐसे भुगतान के बाद कुल भुगतान एकत्रित सामग्रियों के अग्रिमों के समायोजन सहित किया जाने वाला कुल कार्य Gross work to be done together with net payment/ adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment	Rs. 11.00 lakhs
खण्ड-7ए	
Clause 7A (Modified)	
No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable, are submitted by the contractor to the Engineer-in-charge. Whether Clause 7A shall be applicable.	Yes
खण्ड-8	
Clause8	
The competent authority to inspect and issue of completion certificate	Executive Engineer(E), VBED, CPWD or his successor thereof.
खण्ड-10(क)	
Clause10A	
कार्यस्थल प्रयोगशाला में ठेकेदार द्वारा उलब्ध कराये जाने परीक्षण उपकरण की सूची List of testing equipment to be provided by the contractor at site lab	As amended upto date
खण्ड-10(ख)(ii)	
Clause10B(ii)	
क्या खण्ड 10(ख)(ii) लागू होगा। Whether Clause10B(ii) shall be applicable	NotApplicable
खण्ड-10(ग)	
Clause10C	
श्रम घटक को कार्य के मूल्य के प्रतिषत के रूप में अभिव्यक्त किया गया है। Whether Clause10C shall be applicable	100%
Component of material/labour expressed as percent of value of work of respective discipline	100%
Clause10CC	
Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the period shown in the next column.	NotApplicable
मूल्य वृद्धि के लिए अन्य सामग्री, श्रम, पी.ओ.एल आदि के घटकों की अनुसूची। Schedule of component of other Materials, Labour, POL etc. for price escalation. निर्माण कार्य सामग्री के लिए सिविल घटक (खंड 10 ग के अन्तर्गत शामिल सामग्रियों को छोड़कर)/वैधुत कार्य में कुल मूल्य के प्रतिषत के रूप में प्रदर्शित	

खण्ड- 11
Clause11
कार्यनिष्पादन के लिए अनुपालन किए जाने वाले विनिर्देश Specification 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		
खण्ड- 11	The completion cost shall in no case exceed 1.5 times the contract amount	
Authority to decide deviation of contract amount	Upto 1.25 times the contract amount	Executive Engineer (E), VBED, CPWD or his successor
	Beyond 1.25 times upto 1.50 times of contract amount	Superintending Engineer, Vigyan Bhawan, CPWD or his successor
Type of work	Maintenance work	

The completion cost shall, in no case exceed 1.5 times the contract amount. Contractor will devise a system to keep a watch on quantum of work taken up vis-à-vis balance items required to complete defined scope of work and will give the alerts to Engineer-in-charge before taking up extra items(s), deviations(s) so that completion cost does not exceed above limit. Work executed beyond above limit with neither be recorded nor be paid. The Contractor will not have any claim(s) whatsoever on this amount.

खण्ड-16	
Clause 16	
घटी हुई दर निर्धारित करने की लिए सक्षम प्राधिकारी Competent Authority for deciding reduced rates.	<i>Superintending Engineer, Vigyan Bhawan for 5% of contract Value, ADG(RD), beyond 5% of contract value</i>

खण्ड-18	
Clause 18	
कार्यस्थल पर टेकेदार द्वारा लगाये जाने वाली अनिवार्य मशीनरी, औजार एवं सयंत्रों की सूची: List of mandatory machinery, tools & plants to be deployed by the contractor at site:	: <i>As per site requirement</i>

खण्ड-19	
Clause 19	
Authority to decide penalty for each default	
Clause 19C	Executive Engineer (E), VBED, CPWD or his successor (Penalty of Rs. 200/- for each default)
Clause 19D	Executive Engineer (E), VBED, CPWD or his successor (Penalty of Rs. 200/- for each default)
Clause 19G	Executive Engineer (E), VBED, CPWD or his successor (Penalty of Rs. 100/- per day for each default and defaulting continuously the Penalty may be enhanced to Rs. 200/- per day for each day fault subject to a maximum of 5% of the estimated cost of the work put to tender)
Clause 19K	Executive Engineer (E), VBED, CPWD or his successor (Penalty of Rs. 200/- for each default)
खण्ड-25	

Clause 25		
S.No.	Designations	
1	Conciliator	ADG(Delhi)
2	Arbitrator Appointing Authority	SE, Vigyan Bhawan
3	Place of Arbitration	New Delhi
खण्ड-32		
Clause 32(i)		
Requirement of Technical Representative(s) and Recovery Rate		

Cost of Work (Rs. In Crores)	Requirement of Technical Staff		Minimum Experience (year)	Designation Project manager cum planning quality/site.billing Engineer	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision
	Qualification	No.			
More than 1.5 to 5	Graduate Engineer OR Diploma Engineer	1	2 or 5 respectively	Project Manager cum planning/ quality/ site/ billing Engineer	Rs. 15,000/- per month per person

NOTE: Assistant Engineer retired from Govt. services that are holding Diploma will be treated at par with Graduate Engineer.

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 condition that such diploma should not exceed of 50% of requirement of degree engineers.

खण्ड-38

Clause 38

- (i) Schedule/Statement for determining theoretical quantity of cement and bitumen on the basis of Delhi schedule of Rate 2023 printed by C.P.W.D. : **Applicable**
- (ii) Variations permissible on theoretical quantities as per GCC 2023 : **Applicable**

Annexure-I**GENERAL TERMS AND CONDITIONS**

1. The work shall be carried out as per CPWD General specifications for Electrical works Part I Internal-2023, Part II External-2023 & Part-IV sub-station-2013, DG sets and HVAC works etc. as amended upto date and as per direction of Engineer in charge.
2. The work shall be carried out at **Sankalp Bhawan, New Delhi**. Contractor shall visit the site before quoting the rate/offer and shall take all factor into account.
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 copy of his Aadhar Card/Voter ID or any other Identity Card 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 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 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.
5. 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.
6. 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.
7. The department shall not be responsible for any accident or labour claim during the contract period. The firm shall bear all such claims.
8. No T & P shall be issued by department. All tools required to attend the maintenance problems should be arranged by the agency at its own cost.
9. The following documents related to staff/labour to be deployed at site is to be submitted within 7 days of issued of award letter, failing to submit the below mentioned documents penalty of Rs. 1000/- shall be levied. (Original documents should be made available for verification purpose during submission of below mentioned documents)
 - i) 2 Nos. passport size photograph of labour/staff
 - ii) PCC not older than 1 year
 - iii) 2 Nos. ID proof of the labour/staff
 - iv) Application of labour token/pass on letter head of agency duly signed by contractor.
10. The persons employed by the firm shall be of good health and good moral character and shall not be less than 18 years old age and shall have minimum three years' experience in the field.
11. The contractor shall depute following staff with minimum qualification and experience, as under:

Sl. No.	Designation	Minimum Qualification Academic	Experience
a)	Highly skilled (Supervisor)	Graduate with knowledge of computer	5 Years in supervising of E&M & Civil Services.
b)	Skilled (Wireman/ A.C Mechanic)	ITI/ Diploma in Electrician /Wireman /Ref. & A/C Trade from any Central/State Govt. approved training institute/ Wireman license from electrical inspector	2 Years in same line.
	Skilled (Operator (E&M))	ITI / Diploma or equivalent qualification in E&M trade	
	Skilled (Lift operator)	ITI / Diploma or equivalent qualification in E&M trade	
	Skilled (Technician)	ITI / Diploma or equivalent qualification in E&M trade	
c)	Unskilled	8 th Pass/Physically & Mentally fit	6 Months in same line.

12. The contract can be terminated by Engineer-in-charge without assigning any reason at any time during the contract. No claim or any compensation will however be entertained due to such termination of period prior to expiry of stipulated period of contract.
13. The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, Contract Labour (Regulation and Abolition) Act 1970 & Bonus Act 1965, as amended from time to time. Hence accordingly contractor should provide all such benefits to their employees as per rule, failing which no payment shall be made to contractor. However, in respect of payment on account of ESI, EPF and Bonus, the same shall be paid by the contractor to the concerned staff and it will be reimbursed to him by the Engineer-in-charge after satisfying that it has been actually and genuinely paid by the contractor.
14. The contractor shall be fully Responsible for the payment of salaries in Every Month. The contractor shall pay to his staff not less than minimum wages approved by the Govt. from time to time through RTGS/Online transfer mode only before 7th day of each month otherwise recovery of Rs. 200/- per labour per day delay shall be made from the bill contractor.
15. The contractor shall make all safety arrangement at work site and shall be responsible /liable for any miss happening department shall not have any responsibility or liability of any kind in respect of accident with the staff employed by the contractor under this agreement. Being important building with offices of high-level officers and visiting foreign dignities, the person employed should be very well conversant & well behaved. They should also be of good moral character. 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. The staff deputed by the contractor will have to work as per direction and instruction of Engineer-in-Charge as required.
16. After completion of the Agreement, contractor has to hand over the system in perfect running condition complete in all respects as per inventory and will hand over to the department.
17. The contractor shall provide three mobile phones with video calling facility one at each place i) Sub-station ii) Fire alarm control room and iii) Firefighting control room. The contractor shall give his two telephones number (landline/mobile) and one e-mail ID for contact and if any change in them shall be informed to the department immediately. Noncompliance of this condition will attract a penalty of Rs.200/- per day may be deducted from the bill.
18. The contractor should depute experienced and qualified staff. Contractor should submit full particulars of their staff before deployment at site and obtained necessary approval from competent authority failing which site shall not be handed over and action shall be taken as per agreement.
19. All the instructions given to the worker must be followed in the interest of the safety and smooth functioning of installation & services.
20. Rates quoted should be inclusive of 3 Nos. National Holidays. Nothing extra shall be paid for National Holidays.

21. 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.
22. The person deployed can be put on duty on any place in case of requirement. The duty hours shall also be changed as per requirement. The contractor has to provide services if required for Sundays and holidays also.
23. Any damage to building or electrical installation shall be rectified by the contractor at his own cost and nothing extra will be paid.
24. 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.
25. All Log book/Complaint register for recording of complaints shall be provided by the firm. Nothing extra shall be paid by the department on this account.
26. No overtime/ travelling/ cartage/ liveries on any account shall be paid extra to the contractor.
27. Dismantled material received if any, shall have to be returned to the department at JE(E) store.
28. The staff employed for maintenance and operation shall be available at suitable place, along with log book as decided by the Engineer-in-charge at site.
29. The contractor has to take satisfactory report of operation from JE/AE(E) every month which will be submitted along with the bill.
30. The contractor shall provide weekly rest to the staff.
31. The rates quoted by the firm shall be inclusive of all applicable taxes & duties. Nothing extra shall be paid by the department.
32. The scope of work includes thorough cleaning of all equipment, panels, and associated premises at regular intervals, ensuring proper upkeep, dust-free conditions, and compliance with safety and hygiene standards as per site requirements.
33. The scope of work includes systematic recording, logging, and maintenance of readings of all equipment at specified intervals, ensuring accuracy, proper documentation, and availability of records for monitoring, analysis, and inspection by the Engineer-in-Charge.
34. Engineer-in-charge can change the duty of staff in shifts or otherwise as per actual requirement at site and such changes by the Engineer-in-charge shall be binding on the contractor.
The contractor may note carefully that the recovery for the absence of maintenance staff from their duty shall be made from the contractor's running bill. The penal recovery rates for labour for absence will be as under: -
 - a) Highly Skilled Supervisor @ 2 times the prevailing minimum wages per day/person
 - b) Skilled Wireman/Tehnician @ 2 times the prevailing minimum wages per day/person /Operator
 - c) Unskilled Khallasi @ 2 times the prevailing minimum wages per day/person
35. **The staff deployed on the work shall be the employees of the contractor. The contractor shall pay the employees deployed on the work the minimum wages and other admissible allowances as notified by GNCTD/Govt. of India whichever is higher from time to time.**

Additional Terms and Condition

Sub Head – I (Electrical Installation)

1. Scope of Work including but not limited to below
 - a. Ensuring that installation is always kept in clean, healthy working condition.
 - b. Attending day to day routine complaints in a prompt and satisfactory manner.
 - c. Ensuring that no breakdown in power supply takes place and in case it happens, to take all required steps including contacting supply Co. for earliest restoration.
 - d. Maintaining the installation i.e. fans, fittings and other components of the installation in clean condition including proper record in e form and in writing of all inventory i.e. fans, fittings, panels etc. Any addition /alteration has to be reflected.
 - e. Carrying out minor additions and alterations ordered by Engineer-in- charge.
 - f. Carrying out various maintenance routines and tests.
 - g. Maintaining registers for complaints and test results.
2. All the works shall be carried out as per CPWD Specifications for Electrical works, Part-I (Internal)-2023. Part-II (External)-2023 as amended up to date and to the entire satisfaction of Engineer-in-Charge
3. Operation/Maintenance Staff that should be deployed

	Item Description	Supervisor cum Enquiry Clerk	Skilled	Unskilled
S. No			In all days i/c Sunday and holiday	In all days i/c Sunday and holiday
1.	Internal & External Electrical Installation and Fan	1 No. in General Shift	Wire man= 1 no. (Shift 6 AM to 2PM) Wire man 3 nos. (Shift 9 AM to 5 PM) Wire man 2 no. (Shift 2 PM to 10 PM)	Khallasi 1 no. (Shift 6 AM to 2PM) Khallasi 2 nos. (Shift 9 AM to 5 PM) Khallasi 1 no. (Shift 2 PM to 10 PM)

In case of any fault beyond the capacity of the staff deployed as specified above, the Contractor shall immediately provide additional specialized manpower/workforce to attend to and rectify the fault within the minimum reasonable time or as directed by the Engineer-in-Charge during the validity of the contract. The services of such additional specialized manpower/workforce shall be treated as an extra item and shall be paid for separately.

Shift timings can be changed as per the requirement at site and decision of the Engineer-in-charge.

Sub Head-II (Operation of Sub Station, DG Sets & UPS)

Scope of Work:- Sub-station operation and AMC

- a. Ensuring that H.T. Panel, Transformer, LT panels, Capacitor panels and outdoor structure (by CPWD) as well as connecting cables/ducts, constituting the substation are maintained in healthy & clean conditions.
 - b. Monitoring on continuous basis power factor & peak load and ensuring that these are maintained within limits to avoid penalty.
 - c. To perform maintenance tasks as per OEM standard & recommendation.
 - d. To disconnect total electric supply and or individual loads in case of emergent situation to avoid penalty.
 - e. To ensure continuous power supply and in case of break down take steps to ensure restoration at the earliest.
 - f. The testing of relays during October /November shall be got done from local Electricity board/reputed agency/ authorized agent of manufacturer/competent engineer in presence of J.E.(E)/A.E.(E) and the results shall be submitted to Engineer-in-Charge
1. All the works shall be carried out as per CPWD Specifications for Electrical works, Part-I (Internal)-2023. Part-II (External)-2023 as amended up to date and to the entire satisfaction of Engineer-in-Charge and Substation-2013

2. The Inventory given below are indicative only. All the equipment and accessories available at site are deemed to be covered in the scope of operation and maintenance.

Sl. No.	Description of item	Qty.	Unit
	Sub Station		
1	1500 KVA Dry type Transformer ,11 KV/433 Volt,3 phase (CG make)	3	No.
2	11 KV HT Panel (VCB)With 2 nos. incomer , 1 no. bus coupler & 4 nos. outgoing with metering & protection(CG make)	1	No.
3	Main LT Panel PLC based having 3 nos. incoming ACB, Bus couplers, 2 nos. DG incoming ACB, 3 nos. APFC panel outgoing & outgoing for various services like HVAC plant, Rising mains, STP, Water supply pumps, UPS, Solar PV plant, street lighting, ventilation fans etc.	1	No.
4	APFC Panel 750 KVAR	3	No.
5	Copper plate earthing	28	No.
6	Bus trunking	1	Lot

3. Operation/Maintenance Staff that should be deployed

	Item Description	Engineer	Skilled	Unskilled
S.No				
1,	Sub-station, DG Set, UPS, Solar PV Plant operation		Wire man cum operator 1 no. (Shift 6 AM to 2PM) Wire man cum operator 1 no. (Shift 2 PM to 10 PM) Wire man cum operator 1 no. (Shift 10 PM to 6 AM)	Khallasi – 1 no. (Shift 6 AM to 2PM) Khallasi – 1 no. (Shift 2 PM to 10 PM) Khallasi – 1 no. (Shift 10 PM to 6 AM)

In case of any fault beyond the capacity of the staff deployed as specified above, the Contractor shall immediately provide additional specialized manpower/workforce to attend to and rectify the fault within the minimum reasonable time or as directed by the Engineer-in-Charge during the validity of the contract. The services of such additional specialized manpower/workforce shall be treated as an extra item and shall be paid for separately.

Shift timings can be changed as per the requirement at site and decision of the Engineer-in-charge.

4. Maintenance Schedule

S.No	Activity	Schedule
1.	Check all the switches and meters for proper operation	Within First 15 Days
2.	Check operation of all the safety devices like relays and fuses	Within First 15 Days
3.	Check the earthing system for the proper earth values & continuity of earthing system	Within First 15 Days
4.	Check oil level in all the equipments to ensure proper levels	Within First 15 Days
5.	Check power factor meter, maximum demand meter for proper functioning	Within First 15 Days

6	Check the tripping of the HT panel i.e batteries etc., for proper functioning	Within First 15 Days
7.	Check all the electrical connections for proper tightness	Within First 15 Days
8.	Maintain the sub-station log book: Frequency of reading will be two hourly on all days	Daily
9.	Ensure that the HT tripping circuit and batteries is in healthy condition.	Daily
10.	Transformer testing	In 6 Months/In the month of April and October
11.	Earthing systems check	In 6 Months/In the month of May and November
12.	Relays and other protection Devices working by means of Secondary injection kit	In 6 Months/
13	Insulation measurement of the system i.e. HT cables, LT cables, Transformer, LT panel	In 6 Months/ :In the month of Feb. and August
14	Checking of the connections for Tightness and cleanliness	In 6 Months/In the month of May and November
15	ON/OFF operation of all switches including cleaning and lubricating of operating mechanism wherever required, particularly in case of outdoor installation	In 6 Months/ i.e. Jan & June

If anything adverse is noticed during the daily check, the matter will be reported to the Engineer-in-charge and wherever necessary corrective measures should be taken immediately

5. Only Authorized persons should be permitted to handle electrical equipment. Names of Authorized persons should be displayed in the main MV panel room (Rule 3 of IE Rules) when maintenance activities are performed, another person should accompany the one carrying out the tasks.
6. ON LINE maintenance should not be undertaken in sub-stations. It must be ensured that supply lines concerned are isolated and proved isolated, considering also any likely back feeding.
7. Caution boards should be displayed while doing maintenance works so as to avoid accidental switching on.
8. Supplement this schedule with recommendations of manufacturers of the respective equipment. Proper record of every maintenance activity must be kept as per this Schedule of maintenance. Result of all tests must be also recorded therein. However, if there is any repair or replacement done, the same should be recorded in the History Book.
9. Logging of instruments may be logged daily, only in attended substations. As far as possible logging may be done in peak loading time, so as to monitor the pattern of loading. Periods of power cuts and shut downs should be indicated in attached substations. Logging is needed for voltage (HV/MV/battery), current (HV, MV/battery), power (MD), temperature (max.) of oil, ambient temperature and pf (and frequency meter is already installed). Load on each outgoing feeder may be checked by clip on ammeter/tong tester, once in every quarter, preferable during peak seasons, so that redistribution, if any needed among the feeders could be further examined and effected.
10. Inspection of equipment rooms and equipment. Clean up equipment rooms; remove cobwebs, bird's nests etc., if any. Check that the ventilators are clear exhaust fans and fans are operational. The approach to equipment rooms, and yards in outdoor installations should be clear. Wipeout dirt/ dust from external surface so equipment.
11. CAUTION: Never attempt to clean equipment with exposed (bare) bushing, with supply ON. Periodicity of cleaning such equipment may be increased to once a month or longer as felt in order, so as to avoid frequent switching operations.
12. Observe for any abnormal noise, vibration, smell (usually due to overheating), excess temperature etc. if so, investigate the reason immediately. Radiators of transformers, LT bus bar chamber, and LT heating. Apart from smell, the shine of PVC may reduce due to local heating. Compound may expand MCCB/ACB's and main LT cables (near terminations) may be touched externally to feel any undue and come out of cable boxes due to local heating in compound filled cable terminators (usually old installations). Arcing contacts and main contacts should then be similarly examined. Do not use abrasive paper to clean the contacts, if there is any residue/ pitting. Check the arc contact to be intact, clean and without any obstructions. Mechanical linkages should be lubricated, wherever required. Test for free movements of all operations.
14. In the case of electrically operated breakers, Megger test the motor/ solenoid and check for their free movement. Lubricate as necessary, in the case of outdoor gang operated switch, free operation of the

- switch (and proper alignment of all the 3 phases) should be checked. Check that the HRC fuses are in position, and that safety interlock (with the front cover) is operational. Connections at bus bars, bus ducts and switchgear (including control wiring) should be checked. Tighten as required. Clean the supports and look for any possibilities of tracking on surface. Relays should be tested and settings checked. Relay coil insulation should be checked with LT megger. Plug opening/ hole (if any) in switchboards, effectively. Megger test the panel, and check the interior to be free from any foreign matter (like cotton waste/flint, dislodged nuts/ washers/ cut tapes etc.) before energizing again.
15. Check of safety items & others Check of safety items (insulating mat, caution boards, danger boards, first aid kit, fire protection items, Resuscitator (where provided), first aid chart etc.
 16. Check also whether telephone numbers of officers, supply agency (licensee), fire brigade and hospital are displayed on a painted board in MV panel room.
 17. Check that the correct schematic diagram of distribution is displayed in MV panel room
 18. Test the earth resistance of each electrode (Preferably during summer); and also the integrity of earth connections. Where the substation building is single storied, inspect the roof and roof drain before monsoon, so as to avoid water stagnation.
 19. Check the cable ducts to be free from extraneous items (rubbish/ water) and that duct covers are intact.
 20. Calibration of IDMT relays shall be done as per load & result shall be recorded for verification by Department.
 21. Dismantling of assembly, arcing chamber contacts, cross bar assembly along with moving contacts, checking and de-carbonizing fixed contacts (finger) & current carrying part of Circuit Breaker trolley and insulator assembly.
 22. Setting of fixed contacts for proper contacts pressure, cleaning and reassembling of contacts, arcing chamber, baffle pot, cross bar assembly with arcing contact.
 23. Checking of Circuit Breaker insulator assembly and bushing i/c repairing with para plast compound/ keffar cement etc. as regd.
 24. Setting adjustment of contact travel and proper operation of circuit breaker.
 25. Checking, servicing of mechanism operation for proper setting of auxiliary contacts operation, flushing the breaker and PT tank oil i/c cleaning the sludge, refilling the oil after dehydration & filtration. The process of dehydration & filtration shall continue till the di-electric strength achieved as per IS. The insulation value shall not be less than voltage withstand value 40 KV for a minute as per IS 6792 & test report shall be submitted to the department.
 26. Checking, making good of lowering and raising operation of trolley i/c lubrication of moving parts of HT panels, hoist shutter gear assembly, auxiliary contacts, main contacts etc.
 27. Checking setting of arm movement of trolley in the housing i/c proper operation, closing of shutter gear etc. as required.
 28. Checking insulation resistance of trolley bushing with 5 KV Megger.
 29. Checking and making good of tripping system electrically, manually and making good ON/OFF indicating system.
 30. Proper record of every maintenance activity must be kept as per this Schedule of maintenance. Result of all tests must be also recorded therein.
 31. Check the level of oil in conservator tank. Arrange to top up with dry, tested oil, if necessary. Do not over fill beyond limit level so as to allow expansion of oil when warm. Oil should not split into the breather. Investigate the reason if the level changes too often.
 32. Examine the moving isolating contacts for pitting or sputtering. If so, examine the fixed contact as well. This problem may arise due to bad alignment of contacts. Sometimes, these maybe /hardened grease, this will require cleaning by suitable solvent and re-greasing with approved type of grease.
 33. Mechanical linkages should be lubricated, wherever required. Test for free movement of all operations. In the case of electrically operated breakers, Megger test the motor/solenoid and check for their free movement Lubricate if necessary.
 34. Connections at bus bars, bus ducts and switchgear (including control wiring) should be checked. Tighten as required. Clean the supports and look for any possibilities of tracking on surface
 35. Relays should be tested and settings checked. Relay coil insulation should be checked with LT Megger.
 36. Check the trip battery performance from log book readings and charging system for satisfactory condition.
 37. Checking of bus bar assembly, front and rear after removing the insulation, cleaning, drying and tightening the nut-bolts i/c replacement of defective hardware, re insulating the joints with proper compound and tape etc. as regd.

Scope of Work: Operation of D.G Set

- a. Ensuring that the DG set installation is kept in clean and healthy working condition.
 - b. Testing the system (by operating one set in rotation every day) for 10 minutes for operating fitness.
 - c. The engines have to be operated whenever required and staff should be available round the clock for the same.
1. All the works shall be carried out as per CPWD Specifications for Electrical works, Part-I (Internal)-2023, Part-II (External)-2023, General Specifications for DG Sets-2013 as amended up to date and to the entire satisfaction of Engineer-in-Charge
 2. The Inventory given below are indicative only. All the equipment and accessories available at site are deemed to be covered in the scope of operation and maintenance.

Sl. No.	Description of item	Qty.	Unit
1	1010 KVA,415 volt radiator cooled, DG Sets (Cummins make Engine model no.KTA-38-G5).	3	No.
2	D.G. set synchronization panel PLC based having 3 nos. incoming, bus couplers & 2 nos. outgoing ACB.	1	No.
3.	Bus trunking	3	Set

3. D.G. Set shall be operated by Staff deployed at substation.
4. Maintenance Schedule

Sr. No.	Activity	Schedule
1.	Inspect the installation for any shortcoming which is to be recorded and brought to the notice of Engineer-in-charge	Within First 15 Days
2.	Check the safety devices as well as operating switches for their proper functioning. Any defective item to be attended on priority basis.	Within First 15 Days
3	The system should be brought into working condition if this is not the case on priority.	Within First 15 Days
4.	Check the earthing system for proper values. The results of inspection as above should be recorded in register and brought to the notice of Engineer- in-charge	Within First 15 Days
5.	Check the availability of diesel	Daily
6.	Check the level of water/coolant in the radiator.	Daily
7.	Check the state of battery, terminals for cleanliness & level of water	Daily
8.	Check the lubricating oil level.	Daily
9.	The DG set should be run every third day for about 10 minutes to ensure that it is in perfect working Condition	Daily
10.	Ensure cleanliness of the DG room.	Daily
11.	Check airline connections and air breather for cleanliness.	Daily
12.	Maintain the Log book	Daily
13.	Proper working of safety devices and alarms should be ensured	Monthly

5. In case of any safety & operating parameter is not within permissible limit/range or around the border value. (Decision of Engineer-in- Charge is final) i.e. Lube oil pressure, lube oil temperature, water

Addition: NIL; Correction: Nil; Overwriting: NIL; Deletion: Nil AE(E)(P) AE(C) (P)

- temperature, exhaust temp., etc., then remedial action shall be initiated by the agency.
6. Diesel consumption of the DG set shall be checked as per the manufacturer Standard.
 7. The contractor shall use following material within the scope of operation of D.G. set along with AMF panels for which nothing extra shall be paid.
 - a. White Petroleum Jelly.
 - b. Battery Water/Acid.
 - c. CRC for cleaning of relays, contractors, alternators carbon brushes etc.
 8. After the completion of the contract, the contractor shall have to handover the DG Set and associated installation in perfect working condition to the department.
 9. All the installation/equipment shall always be maintained by the contractor in proper working condition i/c cleaning.
 10. The contractor has to carry out the routine / preventative maintenance as per CPWD specification & maintenance manual.

Scope of Work:- Operation of UPS

1. General upkeep & cleaning of UPS System & other equipment shall be the duty of the firm for which nothing extra shall be paid.
2. Breakdown if any shall immediately be intimated to JE/AE & UPS maintaining agency.
3. Daily checking of UPS for proper input and output voltage, any smell, abnormal heating & noise.
4. All the works shall be carried out as per CPWD Specifications for Electrical works, Part- I (Internal)-2023. Substation-2013, as amended up to date and to the entire satisfaction of Engineer-in-Charge
5. The Inventory given below are indicative only. All the equipment and accessories available at site are deemed to be covered in the scope of operation and upkeep.

Sl. No.	Description of item	Qty.	Unit
1	200 KVA , 3 phase, 415 volt UPS (Schneider make model Easy UPS 3M)	3	No.
2	SMF lead acid battery 12 volt,200 Ah (HBL Make)	264	No.
3	UPS incoming panel with 1 no. 400 Amp.4 P MCCB	3	No.
4	UPS outgoing panel with following switchgears (1) 400 Amp. 4 P MCCB- 3 Nos. (2) 630 Amp. 4 P MCCB - 2 Nos. (3) 63 Amp. 4 P MCCB- 2 Nos. (4) 63 Amp. TPN MCB- 3 Nos.	1	No.

6. UPS shall be operated by Staff deployed at substation.
7. Maintenance Schedule

S. No.	Activity	Schedule
1.	Maintaining log book	Daily
2	Cleaning of UPS & UPS room	Daily

Sub Head – III (Operation of Lift)

1. All the works shall be carried out as per CPWD Specifications for Electrical works, Part-I (Internal)-2023. Part-II (External)-2023, General Specifications for Lifts-2003 as amended up to date and to the entire satisfaction of Engineer-in-Charge
2. The Inventory given below are indicative only. All the equipment and accessories available at site are deemed to be covered in the scope of operation and maintenance.

S. No.	Description of Item	Qty.	Unit
1	20 passenger MRL lift (2B+G+10 stop) Schindler make	10	Nos.

3. Operation/Maintenance Staff that should be deployed

	Item Description	Engineer	Skilled	Unskilled
S. No.			In all days except Sunday and National holiday	
1	Lift Operator		Lift operator 2 no. (Shift- 8 AM to 4 PM) Lift operator 5 no. (Shift- 9 AM to 5 PM) Lift operator 2 no. (Shift- 2 PM to 10 PM)	

Shift timings can be changed as per the requirement at site and decision of the Engineer-in-charge.

4. The contractor will have to maintain registers for all the checks and faults with date and time of all equipments at site and the firm has to arrange the log book within their quoted rates & nothing extra shall be paid on account of this. These registers will be checked by the Junior Engineer (E)/Assistant Engineer (E).

5. **Duties of Lift Operator: -**

- a. He should be able to read technical instructions and record/ maintain logbooks.
- b. He should be trained for proper operation of lift and about safety and technical aspects of lift and to rescue stranded person as per proper method of rescue.
- c. Proper method of rescuing a stranded passenger: -
 - i) The passenger is able to communicate with the help of emergency bell/ intercom.
 - ii) The car light, fan, bell, intercom system should get benefit of emergency electric supply.
 - iii) The operator is to assure the passenger that he will be rescued shortly and request him to stay claim and not to force open the doors.
 - iv) Go to lift M/C room, switch off power supply, and bring lift to nearest landing by manual operation, open lift /landing door, now passenger can leave the lift.
 - v) Examine the lift, if it is unsafe, then shutdown lift service. Don't allow the lift to be used.
 - vi) Immediately inform JE/AE/Lift service to take necessary action to remove the deficiency of lift.
 - vi) Keep "lift out of order/don't enter lift" – handy sign boards to keep in front of such lift
- d. During normal operation of lift, the operation is to ensure: -
 - i) Orderly exit/Entry of lift users.
 - ii) No over loading.
 - iii) Prevent improper goods transportation, which might damage the lift.
 - iv) Misuse of lift.
 - v) Passengers should not smoke inside.

e. Summary: -

The basis duties of lift operator are to ensure.

- i) Daily safety checks of lift.
- ii) Cleanliness of lifts and machine room.
- iii) Prevent overloading/Misuse/ abuse of lift.
- iv) Shutdown lift in case it becomes unsafe and takes immediate action to inform JE/AE/ Lift mechanic/ Lift service centre and guard the lift till help arrives.
- f. Daily safety check & check list for lifts
- g. Daily safety check
- i. First clean lift car inside and M/c room.
- ii. Run the lift to start from ground floor to last landing and back to ground floor, stopping at each floor.
- iii. Check leveling at each landing.
- iv. Check door opening/closing at each landing.
- v. Check working of all buttons, controls, indication of the lift car.
- vi. Check working of alarm switch.
- vii. Check working of emergency light and fan.
- viii. Check working of intercom system.
- ix. Notice any abnormality in running, jerk, improper landing etc.

6. In case of any mis-happening to staffs (operators), the contractor will be fully responsible for his deputed staff. No claim shall be admissible on this account. Also if any mis-happening happened due to negligence's of staffs (operator) of the contractor, then the contractor will be fully responsible for the damages caused by the mis-happening and to bear all losses and decision of Engineer-in-charge will be final and binding on the contractor.

DAILY CHECKS BY LIFT OPERATOR

Name of Bldg.

Lift No.

Division

Sub-Division

Date	g (i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)	Remarks	Initials of			
											Operator			JE
											I	II	III	

Sub Head – IV (Operation & Routine Maintenance of Fire Fighting System)

Scope of Work:- Operation & Routine Maintenance of fire fighting system

- It is the contractor's responsibility to ensure that the Fire Protection System is running in Auto mode at all times.
- All types of Valves, Piping including fittings, paint, Sprinkler and Hydrant System Components, Fire extinguishers, Pumps, Motors, Panels, Cables etc. are covered.
- In case of incident of fire, the contractor's manpower available on duty, will ensure adequate operation of system Fire Protection immediately and will also simultaneously inform Delhi Fire Office and Residents/working staff for vacating the area under fire.
- All tools, plants and materials to carry out the operation and maintenance of Fire Protection system work at site shall have to be provided by the contractor.
- Any minor work related to alignment of pipes & rectification of minor leakage from pipes etc. shall be in the scope of the contractor.
- Contractor shall test & check the equipment under the Sprinkler and Hydrant System from time to time to the entire satisfaction of the Department.
- The Contractor will organize necessary training to the staff deputed in deptt. as per norms and standards and as per direction of engineer in charge. The Contractor will also organize the evacuation drill, basis of Fire Protection System etc for Department Staff as & when directed by Department.
- The complete fire hydrant system shall be inspected and tested **fortnightly (once every 15 days)** to ensure proper functioning.
- Monthly inspection of the entire extinguisher including checking their tubes, discharge, hosepipes, nozzle, clamp etc. checking of weight for loss of mass in gas type extinguisher and to keep a record of the same.
 - All the works shall be carried out as per CPWD Specifications for Electrical works, Part-I (Internal)-2023. Part-II (External)-2023, General Specifications for Wet Riser and Sprinklers-2020 as amended up to date and to the entire satisfaction of Engineer-in-Charge
 - The Inventory given below are indicative only. All the equipment and accessories available at site are deemed to be covered in the scope of operation and maintenance.

Sl. No.	Description of Item	Qty.	Unit
1	Electric motor driven Main hydrant/sprinkler pump set, 2580LPM @ 100 mtr. head (Kirloskar make)	2	No.
2	Diesel engine driven pump set 2850 LPM @ 100 mtr. head (Kirloskar make)	1	No.
3	Electric motor driven Jockey pump 180 LPM @ 100 mtr. head (Kirloskar make)	2	No.

4	Electric motor driven water curtain pump 2850 LPM @ 50 mtr. head (Kirloskar make)	1	No.
5	Deluge valve 150 mm dia.	6	No.
6	Alarm valve 150 mm	1	No.
7	Water curtain nozzle	280	No.
8	Pendent sprinkler	3336	No.
9	Upright sprinkler	4051	No.
10	Sidewall sprinkler	285	No.
11	SS single head landing valve 63 mm dia.	81	No.
12	SS branch pipe	73	No.
13	RRL hose pipe with SS coupling 15 mtr. Long	146	No.
14	Two way FBC	1	No.
15	Four way FBC	2	No.
16	Ball valve 25 mm dia.	102	No.
17	Butterfly valve 80 mm dia.	28	No.
18	Butterfly valve 100 mm dia.	20	No.
19	Butterfly valve 150 mm dia.	68	No.
20	Butterfly valve 200 mm dia.	3	No.
21	Butterfly valve 250 mm dia.	1	No.
22	NRV 100 mm dia.	6	No.
23	NRV 150 mm dia.	15	No.
24	NRV 250 mm dia.	1	No.
25	Hose reel drum with 36 mtr. Long hose reel & shutt off nozzle	61	No.
26	Fire pump Main panel	1	No.
27	ABC type fire extinguisher 6 kg	59	No.
28	CO2 type fire extinguisher 4.5 kg	105	No.
29	Water type fire extinguisher 9 kg	87	No.
30	CO2 type fire extinguisher 50 kg	2	No.
31	Auto air vent	12	No.
32	Pressure switch	6	No.
33	Flow switch	50	No.

iii) Operation/Maintenance Staff that should be deployed

S. No	Item Description	Engineer	Skilled	Unskilled
1,	Fire Fighting operation		For all days i/c Sunday and holiday operator 1 no. (Shift- 6-AM to 2 PM) operator 1 no. (Shift- 2 PM to 10 PM) – operator– 1 no. (Shift- 10 PM to 6 AM)	For all days i/c Sunday and holiday Khallasi 1 no. (Shift- 6 AM to 2 PM) Khallasi 1 no. (Shift- 2 PM to 10 PM) Khallasi 1 no. (Shift- 10 PM to 6 AM)

In case of any fault beyond the capacity of the staff deployed as specified above, the Contractor shall immediately provide additional specialized manpower/workforce to attend to and rectify the fault within the minimum reasonable time or as directed by the Engineer-in-Charge during the validity of the contract. The services of such additional specialized manpower/workforce shall be treated as an extra item and shall be paid for separately.

Shift timings can be changed as per the requirement at site and decision of the Engineer-in-charge.

Sub Head – V (Operation & Comprehensive Maintenance of Fire Alarm & PA System)

1. Ensure that complete fire detection system is always clean and in healthy working condition.
2. Perform daily checks as per OEM standard & recommendation. To perform tasks subsequent to a real alarm situation as per specification.
3. The firm has to demonstrate (Fire Drill) to the Maintenance-in-charge proper working of the entire fire detection system including P.A. System once a month. Deficiencies if any noticed during demonstration shall be attended within a week's time. The result of fire drill shall be submitted along with the monthly bill.
4. In case of fire alarm it is expected that the maintenance person has to immediately rush to the trouble spot and also inform building in-charge/fire department. He should also take "First aid" steps depending upon situation. Specific details for first aid steps to be worked out in consultation with Engineer in charge and kept on record.
5. Any addition/alteration during the period of contract shall also be maintained by the firm and nothing extra shall be payable on this account.
6. In case of fire signal received on control panel or some type of false fire alarm if any, the duty staff must locate the site of fire/fault and find out the location. If fire is detected the information shall be passed on security staff on duty, fire pump operator, Substation, JE (E)/ AE (E) site in-charge and the fire services at once.
7. Any fault observed shall be recovered in the log book and reported to the department. Remedial action shall be taken at once to set right the system.
8. All the works shall be carried out as per CPWD Specifications for Electrical works, Part-I (Internal)-2023. Part-II (External)-2023 and PART-VI FIRE DETECTION AND ALARM SYSTEM 2018 as amended up to date and to the entire satisfaction of Engineer-in-Charge.
9. Spare parts equivalent to **5% of the installed inventory** shall always be kept available at site for immediate replacement and maintenance, as directed by the Engineer-in-Charge.
10. The Inventory given below are indicative only. All the equipment and accessories available at site are deemed to be covered in the scope of operation and maintenance. Any addition/ alteration shall be included in the operation and maintenance of the installations and nothing extra shall be paid.

Sl. No.	Description of equipment	Bosch Make & Model	Qty.	Unit
1	Main addressable Fire alarm control panel 11 loop	FPA 5000	1	No.
2	Fire remote panel	FMR 5000	1	No.
3	Digital voice evacuation system	Paviro	1	No.
4	Multi Criteria Detector	FAP 425 OT	1483	No.
5	Intelligent Heat Detector	FAH-425-T-R	128	No.
6	Manual call points	FMC-210-SM	69	No.
7	Monitor module	FLM-420-O111-E	40	No.
8	Addressable control module	FLM-420-RLV1-E	53	No.
9	Intelligent Duct Detector	FAD-425-O	38	No.
10	Hooter	FNM-420-B-RD	74	No.
11	Ceiling mounted speaker	LC3-UM06	248	No.
12	Wall mounted speaker	LBD3902	89	No.

11. Operation/Maintenance Staff that should be deployed

S. No.	Item Description	Engineer	Skilled	Unskilled
1	Fire Alarm & PA System		Operator-1 No. (Shift 6AM to 2 PM) Operator-1 No. (Shift 2 PM to 10 PM) Operator-1 No. (Shift 10 PM to 6 AM)	For all days i/c Sunday and holiday Khallasi 1 no. (Shift- 6 AM to 2 PM) Khallasi 1 no. (Shift- 2 PM to 10 PM) Khallasi 1 no. (Shift- 10 PM to 6 AM)

Shift timings can be changed as per the requirement at site and decision of the Engineer-in-charge.

12. Maintenance Schedule

Addition: NIL; Correction: Nil; Overwriting: NIL; Deletion: Nil AE(E)(P) AE(C) (P)

S. No.	Activity	Schedule
1	a) Familiarize the maintenance personnel with the Fire detection and alarm system and their responsibility in consultation with maintenance in charge. b) Inspect the complete system for proper functioning. Any shortcoming noticed should be recorded and brought to the notice of engineer-in-charge. c) Finalize detector cleaning and zone testing schedule	Within First 15 Days
2	Check working of PA system	Daily basis
3	Check working of F/D system from the control panel	Daily basis
4	Check battery for proper charge, water level & clean contacts Check the battery i/c level of electrolyte, connection, leads, voltage etc.	Daily basis
5	Once a week, some heat detectors and manual call boxes shall be triggered	Weekly
6	Public address system i/c talk back system is to be tested & fault noticed shall be made good and be recorded in the log book	Monthly
7	Check the operational readiness of control panel in case of electrical main failure.	Monthly
8	Detectors to be cleaned	during April and October months from the outside and once a year(October) with Vacuum cleaner. During this activity system should remain in working condition.

Comprehensive maintenance of Addressable Fire Alarm System

Scope of Work: - OEM/ service agent shall provide the following Services:-

1. Preventive Maintenance Calls: - Once in a Month.
2. Break Down Calls: - As required or requisition from time to time.
3. Reach time: - Every effort shall be made to attend to any complaint within 8 working hours.
4. Minor Breakdown Repairs: - Immediately after reaching the site.
5. Major Breakdown Repairs: - May take to 48 hours from the date of reporting at site by our representative.
6. Replacement of defective/ damaged spare parts with genuine parts.
7. Ensure that complete fire detection system is always clean and in healthy working condition.
8. The vendor shall replace the set of batteries as and when required during the currency of contract.
9. Replace Faulty devices as and when required.
10. Any addition/alteration during the period of contract shall also be maintained by the firm and nothing extra shall be payable on this account.
11. As the complete system shall be under comprehensive maintenance, all the materials required for carrying out routine, preventive and breakdown maintenance shall be arranged by the Contractor.
12. All the works shall be carried out as per CPWD Specifications for Electrical works, Part-I (Internal)-2023. Part-II (External)-2023 and PART-VI FIRE DETECTION AND ALARM SYSTEM 2018 as amended up to date and to the entire satisfaction of Engineer-in-Charge
13. The Inventory given below are indicative only. All the equipment and accessories available at site are deemed to be covered in the scope of operation and maintenance. Any addition/ alteration shall be included in the operation and maintenance of the installations and nothing extra shall be paid.

Sl. No.	Description of equipment	Bosch Make & Model	Qty.	Unit
1	Main addressable Fire alarm control panel 11 loop	FPA 5000	1	No.
2	Fire remote panel	FMR 5000	1	No.
3	Digital voice evacuation system	Paviro	1	No.
4	Multi Criteria Detector	FAP 425 OT	1483	No.
5	Intelligent Heat Detector	FAH-425-T-R	128	No.

6	Manual call points	FMC-210-SM	69	No.
7	Monitor module	FLM-420-O111-E	40	No.
8	Addressable control module	FLM-420-RLV1-E	53	No.
9	Intelligent Duct Detector	FAD-425-O	38	No.
10	Hooter	FNM-420-B-RD	74	No.
11	Ceiling mounted speaker	LC3-UM06	248	No.
12	Wall mounted speaker	LBD3902	89	No.

14. Any damage done to the installation / building, shall have to make good by the Contractor without any extra cost.
15. Following recovery shall be made: -
 - a) Failure to attend break down complaints @ Rs.10000/- per day after 4 Hrs. of complaint.
 - b) Failure to do monthly Inspection (preventive maintenance) @ Rs.10000/- Per Months.

Sub Head – VI (Operation & Comprehensive Maintenance of STP & PHE)

1. Operation of STP, Hydro pneumatic water supply pumps under PHE & centralized R.O Plant.
2. Maintaining log book
3. The firm shall be responsible for taking over of plant and handing over of plant in complete working condition on conclusion of contract
4. Cleaning of STP, Pump room & R.O System.
5. The Contractor will operate and maintain in a state of continuous operational readiness all plant and systems to meet the flow requirements.
6. The Contractor shall be entitled to appoint a representative who shall together with on the following day, jointly carry out a reading of water meters and jointly certify the record of such readings.
7. The stores inventory, the issuing and recording of spare parts will be the responsibility of the contractor.
8. The Contractor will manage the consumables and utilities services to ensure their most economic consumption and to minimize wastage
9. Proper operation and maintenance of the same works/components shall be carried out by contractor and at the time of completion of contract period or termination of contract, contractor should have to give possession of all the work and components back to CPWD in good condition. Before handing over the possession to CPWD, account of contract will not be finalized and deposit will not be refunded to contractor. For all type of legal activities and expenditure for the same, contractor will be fully responsible.
10. All miscellaneous items, for example tools, testing equipment, cleaning or green keeping equipment, security and safety equipment, electrical fixtures, etc. shall be provided by the Contractor at his expense.

STP Plant

1. On the date of Contract Completion or if the Contract is terminated, all the installations, works Employer, at no cost, in good working order. The Employer may perform any inspections, tests or expert appraisals he shall consider necessary with a view to checking that the property is in good working order and will certify to that effect to the Contractor while taking over.
2. If any work specified in the scope of tender but not carried by the contractor, the recovery will be done at the double the market rate from the contractor.
3. Sampling and testing of influent sewage based on the tests and frequency desired by the Engineer-In-Charge as per specifications stipulated and general in accordance with the latest CPHEEO manual on Sewerage and Sewage Treatment or as per Local Body requirements.
4. Sampling of final treated effluent to ensure that the guarantee parameters are as stipulated in the bid/ required by Local by Laws. The sampling frequency to be as per relevant norms of Pollution Control Board or higher as decided by Engineer-In-Charge. The Employer reserves right to collect samples at random at the will of the Employer through any agency nominated by him. Employer shall have right to seek part of sample collected by the Contractor without any prior intimation to cross check the results on random basis. However, the analysis charges of such samples shall be borne by Employer.
5. Loading, Unloading and Transportation of screenings, Wet sludge and wet grit out of treatment Plant site at contractor's own cost as directed by Engineer-In-Charge within 30 km from the Plant to the place as directed by the Engineer-In-Charge from time to time. The wet sludge shall be collected and

disposed of by the contractor. Any revenue accruals by sale of sludge shall be to the benefit of the Employer.

6. **Performance data of Sewage Treatment Plant**

The performance data sheet shall contain the records of the analytical results at the inlet and outlet values of all the parameters. These parameters are BOD, TSS, TN, TP and parameters. A table on performance data of STP based on the effluent parameters will be provide by the employer.

Date	Unit/ Basin	a	B	c	d	e	f	Officer on duty	Operator

Month: Year:

a. : BOD

b. : COD

c. :Total Nitrogen

d. :Total Phosphorus

e. :Suspended Solids/ MLS

f. :dewatered sludge concentration

7. The contractor has to maintain the following norms or **applicable latest** DPCC norms revised from time to time for the finally treated effluent nothing extra shall be paid on this account

PH	between 6.5 _9.0
Total suspend solids	Not to exceed 10Mg/ ltr.
Coliform	Not to exceed 230 MPN/100ml
B.O.D	Not to exceed 10 Mg/ltr.
C.O.D	Not to exceed 50Mg/ltr.
Ammonical Nitrogen	Not to exceed 5 Mg/ ltr.
PO4-P	Not to exceed 2Mg/ltr.
N Total	Not to exceed 10 Mg/ltr.

8. The contractor shall submit the treated effluent analysis report from Laboratory approved by DPCC Every month, any penalty imposed by DPCC for not maintaining the norms will be recovered from contractor's bill. In case of non-submission of analysis from DPCC Lab, recovery shall be made from the contractor's bill of Rs. 2000/- per month.

1. **REPORTS**

MONTHLY REPORT

1. The monthly report shall include but not be limited to:
 2. Volume of Sewage treated.
 3. Inlet and outlet sewage characteristics BOD, Total Suspended solids and any other data required by the Engineer in Charge
 4. All the problem areas in the facility,
 5. O & M works carried out during the month.
 6. Monthly materials consumption statement
9. All the works shall be carried out as per CPWD Specifications for Electrical works, Part-I (Internal)-2023. Part-II (External)-2023, as amended up to date and to the entire satisfaction of Engineer-in-Charge
10. The Inventory given below are indicative only. All the equipment and accessories available at site are deemed to be covered in the scope of operation and maintenance. Any addition/ alteration shall be included in the operation and maintenance of the installations and nothing extra shall be paid.

Inventory of 200 KLD STP , GPOA2,K.G.Marg,New Delhi			
Sl. No.	Description of item	Qty.	Unit
1	MS Tanks,5 mm thick,Venza make		

(a)	BAR SCREEN CHAMBER (size 800 X 1000 X 1000 mm)	1	No.
(b)	Oil and grease chamber (Size 800 x 2500 x 1600 mm)	1	No.
(c)	Equalization tank (3500 x 4500 x 4000 mm)	1	No.
(d)	MBBR 1 & 2 (3000 x 4450 x 3000 mm)	2	No.
(e)	Tube Settler (3000 x 4450 x 3000 mm)	1	No.
(f)	Chlorine contact tank (3000 x 4000 x 3000 mm)	1	No.
(g)	Soft water tank (2700 x 2320 x 4000 mm)	1	No.
(h)	Ultra Filtration tank (3600 x 1400 x 3000 mm)	1	No.
2	PVC Tanks		
(a)	Sludge holding tank, 5000 Ltr.	1	No.
(b)	UF Feed tank, 5000 Ltr.	1	No.
(c)	Brine tank, 500 Ltr.	1	No.
(d)	NAOCL Dosing tank, 100 Ltr.	1	No.
3	Pumps		
(a)	Raw sewage pump submersible, Kirloskar, 1500 CW	2	No.
(b)	Sludge rec. pump , Kirloskar SP05M	2	No.
(c)	Filter feed pump, Kirloskar KDI 538	2	No.
(d)	Sludge feed pump screw , Roto	1	No.
(e)	UF feed pump , Kirloskar KDI 235	2	No.
(f)	UF Backwash Pump, Kirloskar KVM 2070	2	No.
(g)	Softener feed pump, Kirloskar KDI 538	2	No.
4	Aeration System		
(a)	Air Blower , Airvac 53AC	2	No.
(b)	Air Blower Motor 7.5 HP, Crompton	2	No.
(c)	UF Air Blower, Airvac 42AC	1	No.
(d)	UF Air Blower Motor 3HP, Crompton	1	No.
(e)	Coarse Diffuser 150 mm , Venza	12	No.
(f)	Fine Bubble diffuser 63 x 1000, Venza	14	No.
5	Media		
(a)	MBBR Media 16 x 22 , Venza	1	Lot
(b)	Tube Settler Media 750 mm , Venza	9	Cum
6	Tertiary Treatment		
(a)	Pressure Sand Filter 900 x 1800 , Venza	1	No.
(b)	Activated Carbon Filter 900 x 1800, Venza	1	No.
(c)	Hypo Dosing Pump , 6LPH, Edose	2	No.
(d)	UV System, Venza VUV80S	1	No.
7	UF System		
(a)	UF Membrane, QUA , QSEP 8012	2	No.
(b)	UF skid SS304	1	No.
(c)	UF Bag Filter Housing with bag 500 mm	2	No.
(d)	Solenoid Valve 40 mm ,UFLOW	6	No.
(e)	HCL Dosing Pump 10 LPH ,Edose	1	No.
(f)	HCL Dosing TANK 100 LTR	1	No.
(g)	NAOCL Dosing Pump 10 LPH, Edose	1	No.
(h)	NAOCL Dosing Tank 100 LTR	1	No.

(i)	UF Rotameter - Flanged 5000 LPH, Aster	1	No.
8	Water Softener		
(a)	Softener Vessel 1000 x 2500 ,Venza	1	No.
(b)	Resin, Ion Exchange 220NA	1	Lot
(c)	Brine tank, 500 Ltr.	1	No.
(d)	Brine Tank Agitator , Venza	1	No.
9	Sludge Treatment		
(a)	Filter Press 12 x 12 x 12 , Venza	1	No.
10	Panel & Instrumentation		
(a)	Control Panel	1	No.
(b)	Pressure Gauge	8	No.
(c)	Floaty 5 mtr.,Aster	5	No.
(d)	Electromagnetic Flowmeter 50 mm , Aster	1	No.
11	Pipe , Fittings & Valves	1	Lot

Inventory of PHE , GPOA2,K.G.Marg,New Delhi			
Sl. No.	Description of item	Qty.	Unit
1	Domestic Pumps(Hydropneumatic Booster Pumping system Variable speed)		
(a)	3 nos. x 3 KW pump set with Control panel,VFD,PLC and 100 ltr. Pressure tank (KSB,Movitec VCF010/08-B)	1	Set
2	Flushing Pumps(Hydropneumatic Booster Pumping system Variable speed)		
(a)	3 nos. x 3 KW pump set with Control panel,VFD,PLC and 100 ltr. Pressure tank (KSB,Movitec VCF010/08-B)	1	Set
3	Irrigation Pumps(Hydropneumatic Booster Pumping system Variable speed)		
(a)	3 nos. x 1.5 KW pump set with Control panel,VFD,PLC and 100 ltr. Pressure tank (KSB,Movitec VCF06/06-B)	1	Set
4	Soft Water Pumps(Hydropneumatic Booster Pumping system Variable speed)		
(a)	3 nos. x 4 KW pump set with Control panel,VFD,PLC and 100 ltr. Pressure tank (KSB,Movitec VCF010/09-B)	1	Set
5	Drainage Pump		
(a)	Submersible Pump ,1.5 KW with control panel (Kirloskar model 1500CW)	14	No.

Inventory of 1000 LPH Venza make Centralized R.O , GPOA2,K.G.Marg,New Delhi			
Sl. No.	Description of item	Qty.	Unit
1	Raw water transfer pump	2	No.
2	Sand Media Filter with multi- port valve	1	No.
3	Activated Carbon Filter with multi- port valve	1	No.
4	Cartridge Filter Housing	2	No.
5	Micron Cartridge Filter	2	No.
6	Multistage centrifugal high pressure pump SS	2	No.

7	R. O. Membranes	4	No.
8	R. O. Pressure Tubes	2	No.
9	R. O. Skid SS	1	No.
10	PH Correction Dosing Pump with 100 Litres Tank	1	No.
11	SMBS Dosing Pump with 100 Litres Tank	1	No.
12	Antiscalent Correction Dosing Pump with 100 Litres Tank	1	No.
13	CIP System with Tank 200 litres	1	No.

11. All the works shall be carried out as per CPWD Specifications for Electrical works, Part-I (Internal)-2023. Part-II (External)-2023, as amended up to date and to the entire satisfaction of Engineer-in-Charge
12. Operation/Maintenance Staff that should be deployed

S. No.	Item Description	Engineer	Skilled	Unskilled
1	STP, Water pump, R.O. system		Operator-1 No. (Shift 6AM to 2 PM) Operator-1 No. (Shift 2 PM to 10 PM) Operator-1 No. (Shift 10 PM to 6 AM)	For all days i/c Sunday and holiday Khallasi 1 no. (Shift- 6 AM to 2 PM) Khallasi 1 no. (Shift- 2 PM to 10 PM) Khallasi 1 no. (Shift- 10 PM to 6 AM)

Shift timings can be changed as per the requirement at site and decision of the Engineer-in-charge.

13. Maintenance Schedule
Preventive maintenance from time to time such as cleaning, greasing, lubrication and de scaling etc. as required and necessary but not later than the following intervals.

S. No.	Activity	Schedule
1	Cleaning of Water Tanks	once every month as per schedule to provide uninterrupted water supply
2	Draining of the Water Tanks and water supply pipelines and disinfecting with a chemical Containing Chlorine	Once in a year or as required.
3	Cleaning / Flushing of all drainage pipes with the help of flushing tools	Once in every six months or as and when required in case of blockages.
4	Cleaning of floor traps, bottle traps	Monthly
5	Cleaning of water line strainers	Monthly
6	De greasing of Grease separators	Minimum once in a month or more as & when required.
7	Greasing of motors, pumps, motorized valves and other component needing lubrication	Once in a year or more as and when required.
8	Backwashing of Tertiary water Filters, RO membranes	Minimum once in a month or more as & when required.

Comprehensive Maintenance of STP and Centralized R.O System

Scope of Work: - STP Plant

- The Contractor shall be responsible for corrective and preventive maintenance of civil, hydraulic, mechanical, and electrical and instrumentation equipment as well as miscellaneous equipment.
- The Contractor shall be responsible for carrying out regular servicing and lubrication of rotary machines, complying with maintenance instructions as defined in the Operation and Maintenance Manual and ensuring that electromechanical equipment and motors operate correctly at all times

3. The Contractor shall ensure that all measurement systems are calibrated, within the valid period of certification and operate correctly at all times.
4. The Contractor will operate and maintain in a state of continuous operational readiness all plant and systems to meet the flow requirements.
5. The contractor shall be entitled to appoint a representative who shall together with Employer's Representative on the last day of each month or if such day is not a working day on the following day, jointly carry out a reading of water meters and jointly certify the record of such readings.
6. For the duration of the comprehensive maintenance period, the Contractor will be responsible for the supply and control of lubricants, spare parts and consumable materials including Electrical Power, necessary for the continuous operation of the works.
7. The Contractor will manage the consumables and utilities services to ensure their most economic consumption and to minimize wastage
8. The stores inventory, the issuing and recording of spare parts will be the responsibility of the contractor
9. The Contractor will make all necessary arrangements to ensure the continuous supply of spare parts and material for the works; and the rate of advance supply of these materials shall be in such quantities and amounts as would ensure uninterrupted operation
10. Proper maintenance of the same works/components shall be carried out by contractor and at the time of completion of contract period or termination of contract, contractor should have to give possession of all the work and components back to CPWD in good condition. Before handing over the possession to CPWD, account of contract will not be finalized and deposit will not be refunded to contractor. For all type of legal activities and expenditure for the same, contractor will be fully responsible.
11. Prescribed registers as maintained by agency during the period of maintenance period shall be submitted to the CPWD. History sheet shall be maintained by contractor for replacement of material in pipeline, or valves, spare parts of Electro-mechanical equipment.
12. All miscellaneous items, for example tools, testing equipment, cleaning or green keeping equipment, security and safety equipment, electrical fixtures, etc. shall be provided by the Contractor at his expense.
13. The contractor shall adhere to the manufacturer's recommendations with respect to equipment maintenance, the type, and grades of lubricants to be used.
14. The Contractor is also responsible for providing spare parts and material required for the maintenance
15. The Contractor will make all necessary arrangements to ensure the continuous supply of spare parts and material for the works, and the rate of supply of these materials shall be in such quantities and amounts as would ensure uninterrupted operation.
16. The contractor shall have to procure the required spares from original manufacture or authorized dealer at his cost.
17. On the date of Contract Completion or if the Contract is terminated, all the installations, works and equipment placed under the contracto's responsibility shall be handed over to the Employer, at no cost, in good working order. The Employer may perform any inspections, tests or expert appraisals he shall consider necessary with a view to checking that the property is in good working order and will certify to that effect to the Contractor while taking over.
18. If any work specified in the scope of tender but not carried by the contractor, the recovery will be done at the double the market rate from the contractor.
19. Sampling and testing of influent sewage based on the tests and frequency desired by the Engineer-In-Charge as per specifications stipulated and in general in accordance with the latest CPHEEO manual on Sewerage and Sewage Treatment or as per Local Body requirements.
20. Sampling of final treated effluent to ensure that the guarantee parameters are as stipulated in the bid/required by Local by Laws . The sampling frequency to be as per relevant norms of Pollution Control Board or higher as decided by Engineer-In-Charge. The Employer reserves right to collect samples at random at the will of the Employer through any agency nominated by him. Employer shall have right to seek part of sample collected by the Contractor without any prior intimation to cross check the results on random basis. However the analysis charges of such samples shall be borne by Employer.
21. Loading, Unloading and Transportation of screenings, Wet sludge and wet grit out of treatment Plant site at contractor's own cost as directed by Engineer-In-Charge within 30 km from the Plant to the place as directed by the Engineer-In-Charge from time to time. The wet sludge shall be collected and disposed of by the contractor. Any revenue accruals by sale of sludge shall be to the benefit of the Employer.
22. Downtime:-
 - i) The Plant shall never be operated at less than 50% of its design capacity due to maintenance and repair reasons. The period of such exceptional operation shall not exceed two consecutive days and shall not be more than three days a week. The maximum downtime of the whole Plant shall not exceed 8 hours. The periods for repairs and maintenance have to be communicated to the Engineer- In-Charge at least one month in advance. For machinery and equipment which requires maintenance to be carried out by manufacturer/manufacturer's

authorized representative, the down time shall not exceed 30 days. Employer reserves the right to impose penalty, should there be any default by Contractor on this account. The penalty amount will be deducted in the subsequent maintenance bill if adequate reasons are not furnished by the Contractor for delay.

23. The Contractor shall keep a reasonable stock of spare parts so that the down time of equipment can be kept within the limits specified
24. All necessary transportation shall be arranged and made by the Contractor at his own expense.
25. The Contractor has to ensure that there is always there is sufficient stock of 15 days of consumables, laboratory chemical, Chlorine gas tonners, glass ware etc.
 - ii) The Contractor has to ensure that there is always there is minimum stock of 30 days requirement of all chemical required for the successful operation of the plant All consumables, necessary chemicals and spares required for maintaining the plant in good condition shall provided by the contractor. No accumulation of such residues shall be permitted within the Plant campus without express application by Contractor giving adequate reasons as well as permission of Engineer-In-Charge. The Contractor shall such residues in conformity to Environmental regulations/rules in force. The Engineer-In-Charge may, if required, decide the mode and timing of disposal of such residues in consultation with concerned Environmental and Civic Authorities. Such directions shall be followed by the Contractor promptly, both in letter and spirit, without any reservations and without any increase in O&M /other costs. The loading, unloading and transportation cost of these shall be borne by the Contractor and shall be included in the price quoted by the Contractor for O&M.

26. **Performance data of Sewage Treatment Plant**

The performance data sheet shall contain the records of the analytical results at the inlet and outlet values of all the parameters. These parameters are BOD, TSS, TN, TP and parameters as per volume IIIA, Part-2. A table on performance data of STP based on the effluent parameters will be provide by the employer.

Date	Unit/ Basin	a	B	c	d	e	f	Officer on duty	Operator

Month: Year:

- a. : BOD
- b. : COD
- c. :Total Nitrogen
- d. :Total Phosphorus
- e. :Suspended Solids/ MLS
- f. :dewatered sludge concentration

27. Adequate stock of all required chemicals equivalent to **six months' consumption** shall always be maintained at site. All chemical consumption/usage shall be recorded in the prescribed register, and the same shall be reported to the Engineer-in-Charge.
28. The contractor has to maintain the following norms or **applicable latest** DPCC norms revised from time to time for the finally treated effluent nothing extra shall be paid on this account

PH	between 6.5 _9.0
Total suspend solids	Not to exceed 10Mg/ ltr.
Coliform	Not to exceed 230 MPN/100ml
B.O.D	Not to exceed 10 Mg/ltr.
C.O.D	Not to exceed 50Mg/ltr.
Ammonical Nitrogen	Not to exceed 5 Mg/ ltr.
PO4-P	Not to exceed 2Mg/ltr.
N Total	Not to exceed 10 Mg/ltr.
29. The contractor shall submit the treated effluent analysis report from Laboratory approved by DPCC Every month, any penalty imposed by DPCC for not maintaining the norms will be recovered from contracto's bill. In case non-submission of analysis from DPCC Lab, recovery shall be made from the contractor's bill of Rs. 2000/- per month.

1. **REPORTS**

MONTHLY REPORT

1. The monthly report shall include but not be limited to:
 2. Volume of Sewage treated.
 3. Inlet and outlet sewage characteristics BOD, Total Suspended solids and any other data required by the Engineer in Charge
 4. All the problem areas in the facility,
 5. O & M works carried out during the month.
 6. Monthly materials consumption statement
30. All the works shall be carried out as per CPWD Specifications for Electrical works, Part-I (Internal)-2023. Part-II (External)-2023, as amended up to date and to the entire satisfaction of Engineer-in-Charge
31. The Inventory given below are indicative only. All the equipment and accessories available at site are deemed to be covered in the scope of operation and maintenance. Any addition/ alteration shall be included in the operation and maintenance of the installations and nothing extra shall be paid.

Inventory of 200 KLD Venza make STP , GPOA2,K.G.Marg,New Delhi			
Sl. No.	Description of item	Qty.	Unit
1	MS Tanks,5 mm thick,Venza make		
(a)	BAR SCREEN CHAMBER (size 800 X 1000 X 1000 mm)	1	No.
(b)	Oil and grease chamber (Size 800 x 2500 x 1600 mm)	1	No.
(c)	Equalization tank (3500 x 4500 x 4000 mm)	1	No.
(d)	MBBR 1 & 2 (3000 x 4450 x 3000 mm)	2	No.
(e)	Tube Settler (3000 x 4450 x 3000 mm)	1	No.
(f)	Chlorine contact tank (3000 x 4000 x 3000 mm)	1	No.
(g)	Soft water tank (2700 x 2320 x 4000 mm)	1	No.
(h)	Ultra Filtration tank (3600 x 1400 x 3000 mm)	1	No.
2	PVC Tanks		
(a)	Sludge holding tank, 5000 Ltr.	1	No.
(b)	UF Feed tank, 5000 Ltr.	1	No.
(c)	Brine tank, 500 Ltr.	1	No.
(d)	NAOCL Dosing tank, 100 Ltr.	1	No.
3	Pumps		
(a)	Raw sewage pump submersible, Kirloskar, 1500 CW	2	No.
(b)	Sludge rec. pump , Kirloskar SP05M	2	No.
(c)	Filter feed pump, Kirloskar KDI 538	2	No.
(d)	Sludge feed pump screw , Roto	1	No.
(e)	UF feed pump , Kirloskar KDI 235	2	No.
(f)	UF Backwash Pump, Kirloskar KVM 2070	2	No.
(g)	Softener feed pump, Kirloskar KDI 538	2	No.
4	Aeration System		
(a)	Air Blower , Airvac 53AC	2	No.
(b)	Air Blower Motor 7.5 HP, Crompton	2	No.
(c)	UF Air Blower, Airvac 42AC	1	No.
(d)	UF Air Blower Motor 3HP, Crompton	1	No.
(e)	Coarse Diffuser 150 mm , Venza	12	No.

(f)	Fine Bubble diffuser 63 x 1000, Venza	14	No.
5	Media		
(a)	MBBR Media 16 x 22 , Venza	1	Lot
(b)	Tube Settler Media 750 mm , Venza	9	Cum
6	Tertiary Treatment		
(a)	Pressure Sand Filter 900 x 1800 , Venza	1	No.
(b)	Activated Carbon Filter 900 x 1800, Venza	1	No.
(c)	Hypo Dosing Pump , 6LPH, Edose	2	No.
(d)	UV System, Venza VUV80S	1	No.
7	UF System		
(a)	UF Membrane, QUA , QSEP 8012	2	No.
(b)	UF skid SS304	1	No.
(c)	UF Bag Filter Housing with bag 500 mm	2	No.
(d)	Solenoid Valve 40 mm ,UFLOW	6	No.
(e)	HCL Dosing Pump 10 LPH ,Edose	1	No.
(f)	HCL Dosing TANK 100 LTR	1	No.
(g)	NAOCL Dosing Pump 10 LPH, Edose	1	No.
(h)	NAOCL Dosing Tank 100 LTR	1	No.
(i)	UF Rotameter - Flanged 5000 LPH, Aster	1	No.
8	Water Softener		
(a)	Softener Vessel 1000 x 2500 ,Venza	1	No.
(b)	Resin, Ion Exchange 220NA	1	Lot
(c)	Brine tank, 500 Ltr.	1	No.
(d)	Brine Tank Agitator , Venza	1	No.
9	Sludge Treatment		
(a)	Filter Press 12 x 12 x 12 , Venza	1	No.
10	Panel & Instrumentation		
(a)	Control Panel	1	No.
(b)	Pressure Gauge	8	No.
(c)	Floaty 5 mtr.,Aster	5	No.
(d)	Electromagnetic Flowmeter 50 mm , Aster	1	No.
11	Pipe , Fittings & Valves	1	Lot

In case of any fault beyond the capacity of the staff deployed as specified above, the Contractor shall immediately provide additional specialized manpower/workforce to attend to and rectify the fault within the minimum reasonable time or as directed by the Engineer-in-Charge during the validity of the contract. The services of such additional specialized manpower/workforce shall be treated as an extra item and shall be paid for separately.

32. Maintenance Schedule

Preventive maintenance from time to time such as cleaning, greasing, lubrication and de scaling etc. as required and necessary but not later than the following intervals.

S.No	Activity	Schedule
1.	Cleaning of Water Tanks	once every month as per schedule to provide uninterrupted water supply
2.	Draining of the Water Tanks and water supply pipelines and disinfecting with a chemical	once in a year or as required.

	containing Chlorine	
3.	Cleaning / Flushing of all drainage pipes with the help of flushing tools	Once in every six months or as and when required in case of blockages.
4.	Cleaning of floor traps, bottle traps	Monthly.
5.	Cleaning of water line strainers	Monthly.
6.	De greasing of Grease separators	Minimum once in a month or more as & when required.
7.	Greasing of motors, pumps, motorized valves and other component needing lubrication	Once in a year or more as and when required.
8.	Backwashing of Tertiary water Filters, RO membranes	Minimum once in a month or more as & when required.

33. BREAKDOWNS CALLS

The Contractor shall attend breakdown calls as and when required.

Response Time: 4 Hrs (Maximum) failing which suitable recovery will be made from the contractor bill as given below.

Following recovery shall be made:-

- Failure to attend break down complaints @ Rs.10000/- per day after 24 Hrs. of complaint.
- Failure to do monthly Inspection (preventive maintenance) @ Rs.10000/- Per Months.

Ro System

- Monthly inspection of the equipment by qualified personnel, who are thoroughly familiar with this type of the equipment/ system provided, covering examination of the plant and ancillary equipment, drives bearings and motors. The logbook reading and interpretation etc. shall also be covered in the Monthly Inspection.
- Contract includes replacement of all parts to be changed as & when reqd.
- Providing written report to the department out lining services carried out, adjustment made & rectification carried out.
- Replacement / rectification of all parts like pumps, solenoid valve, HP/ LP each, PCB, starter etc. as reqd.
- Replacement of sand, activated carbon filter & membrane atleast once in a year.
- Providing and filling consumables.
- Firm shall provide 4 Working hours call back service for fault rectification. All faults to be cleared within reasonable period of time or stand by equipment to be made operational for service. All faulty equipments to be collected from site and repaired equipments to be delivered or replaced with new one if required & fitted at site.
- Replacement of any MS structure / pipe is not covered under scope of work.
- Applying Touch up paint on Elect Panels , Pump & other Equipments once in Six month (At place where the paint has peeled off or scratched/damaged) to prevent direct exposure of metal surface to atmosphere.)
- The firm shall be responsible for taking over of plant and handing over of plant in complete working condition on conclusion of contract
- This being a comprehensive maintenance contract, the repair/ rewinding/replacement of all the parts and the materials required for routine, preventive and breakdown maintenance and for efficient & satisfactory performance of the plant are included in the scope of agency's work without any extra payment over agreement rates
- BREAKDOWNS CALLS**
The Contractor shall attend breakdown calls as and when required.
Response Time: 4 Hrs (Maximum) failing which suitable recovery will be made from the contractor bill as given below.
Following recovery shall be made:-

- a) Failure to attend break down complaints @ Rs.10000/- per day after 24 Hrs. of complaint.
b) Failure to do monthly Inspection (preventive maintenance) @ Rs.10000/- Per Months.

Inventory of 1000 LPH Venza make Centralized R.O , GPOA2,K.G.Marg,New Delhi			
Sl. No.	Description of item	Qty.	Unit
1	Raw water transfer pump	2	No.
2	Sand Media Filter with multi- port valve	1	No.
3	Activated Carbon Filter with multi- port valve	1	No.
4	Cartridge Filter Housing	2	No.
5	Micron Cartridge Filter	2	No.
6	Multistage centrifugal high pressure pump SS	2	No.
7	R. O. Membranes	4	No.
8	R. O. Pressure Tubes	2	No.
9	R. O. Skid SS	1	No.
10	PH Correction Dosing Pump with 100 Litres Tank	1	No.
11	SMBS Dosing Pump with 100 Litres Tank	1	No.
12	Antiscalent Correction Dosing Pump with 100 Litres Tank	1	No.
13	CIP System with Tank 200 litres	1	No.

Comprehensive Maintenance of Water supply pump under PHE

Scope of Work

- Monthly inspection of the equipment by qualified personnel, who are thoroughly familiar with this type of the equipment/ system provided, covering examination of the plant and ancillary equipment, drives bearings and motors. The logbook reading and interpretation etc. shall also be covered in the Monthly Inspection.
- Contract includes replacement of all parts to be changed as & when reqd.
- Providing written report to the department out lining services carried out, adjustment made & rectification carried out.
- Replacement / rectification of following as soon as noticed defective / deficient
 - Defective instruments such as Pressure gauge, valve etc.
 - Defective lamps, fuses, all contactors, relays, timers, switches, MCCBs, lugs and thimbles & cables, VFD etc.
 - Defective bearing of motors and pump sets, pump impeller and motor windings etc.
 - Gland packing of pumps and valves
 - Check motor earthing, meggar motor & connection wiring
- Checking and correcting the following as preventive maintenance at least once in a month or as and
 - Check all flanges for tightness.
 - Calibration of all relays on Elect. Panel _ Once in a year.
 - Servicing of Elect. Panel i/c ACBs- Once in a year.
 - Clean and adjust all switch gear, contactors, relays and associated electrical equipments- twice in a year.
- Firm shall provide 4 Working hours call back service for fault rectification. All faults to be cleared within reasonable period of time or stand by equipment to be made operational for service. All faulty equipments to be collected from site and repaired equipments to be delivered or replaced with new one if required & fitted at site.
- Replacement of any MS structure / pipe is not covered under scope of work.
- Applying Touch up paint on Elect Panels, Pump & other Equipments once in Six month (At place where the paint has peeled off or scratched/damaged) to prevent direct exposure of metal surface to atmosphere.)
- The firm shall be responsible for taking over of plant and handing over of plant in complete working condition on conclusion of contract
- This being a comprehensive maintenance contract, the repair/ rewinding/replacement of all the parts and the materials required for routine, preventive and breakdown maintenance and for efficient

& satisfactory performance of the plant are included in the scope of agency's work without any extra payment over agreement rates.

11. BREAKDOWNS CALLS:-The Contractor shall attend breakdown calls as and when required.

Response Time: 4 Hrs (Maximum) failing which suitable recovery will be made from the contractor bill as given below. Following recovery shall be made:-

- a. Failure to attend break down complaints @ Rs.10000/- per day after 4 Hrs. of complaint.
- b. Failure to do monthly Inspection (preventive maintenance) @ Rs.10000/ Per month

Sub Head – VII (SITC of EV Charger)

1. The work shall comprise of complete Supply, Installation, Testing and Commissioning (SITC) of Parkbay DC EV Charger (Mode-3), Power Level-2, having normal power of 24 kW and above, complete in all respects with all accessories, protections, cables, connectors, communication facilities, software and other items required for satisfactory operation of the system.
2. The EV charger shall be installed for charging the authorized electric vehicles of Sankalp Bhawan, K.G. Marg, which are normally parked in the Government building. The charging facility shall be used only for authorized Government vehicles/vehicles of officers visiting the building and shall not be used for private vehicles owned/hired by employees working in Government offices, unless specifically permitted by the competent authority.
3. The EV charger shall conform to the technical specifications stipulated in the BOQ/item description and shall comply with the relevant provisions of IS 17017 series, IS 13252 (Part-1), ISO 15118, IEC 62262, OCPP and other applicable IS/IEC standards.
4. The agency shall procure the EV charger and major equipment/materials from the OEM or its authorized distributor/channel partner. Documentary proof of OEM authorization/procurement along with invoices and delivery challans shall be submitted to the Engineer-in-Charge, as and when required.
5. The agency shall submit detailed foundation, mounting and installation drawings of the EV charger to the Engineer-in-Charge for approval before execution.
6. The scope of work shall include all required cables, glands, lugs, terminations, connectors, couplers, reducers, bends, sockets, clamps, supports, DWC/HDPE pipes and other accessories required for complete installation and commissioning of the EV charging system. Nothing extra shall be paid on this account.
7. The EV charger shall be provided with suitable telecommunication/network connectivity as specified in the item and shall be capable of communication with the Central Server/Charging Management System through the specified communication protocol.
8. The charger shall support OCPP 1.6J with provision for upgradation to OCPP 2.0, and the agency shall carry out complete configuration, integration and testing of the communication facility with the CMS/Central Server.
9. A suitable Charging Management Software (CMS), web-based application and/or mobile application shall be provided for monitoring, controlling and managing the EV charging facility. The CMS shall have provision for registration and authentication of authorized users/vehicles through RFID and/or online authentication, recording of charging session details including vehicle number/chassis number, user/owner details, date, time, duration and energy consumed, vehicle-wise/user-wise charging history and generation of energy consumption reports for any specified period.
10. The charging system shall have suitable authentication/interlock facility to prevent unauthorized use of the charging facility. Charging shall be permitted only after successful authentication of the authorized RFID/user/vehicle, as supported by the charger and vehicle communication protocol.
11. The CMS/software shall have provision for calculation of electricity tariff/charging charges based on energy consumption, for use in future if charging charges are levied by the Department/competent authority.
12. The cost of all required CMS software, web/mobile application, licences, subscriptions, communication interface, configuration and software upgrades for a period of three years from the date of commissioning shall be deemed included in the quoted rate of the EV charger. Nothing extra shall be paid on this account.
13. The scope shall include complete installation, configuration, integration, testing and commissioning of the EV charger, CMS, communication system and all associated equipment. The system shall be handed over in a fully functional condition.

14. The agency shall submit GA drawings, SLD, feeder pillar GI drawings, installation drawings and other relevant technical drawings to the Engineer-in-Charge for approval before manufacturing/fabrication/installation, as applicable. Manufacturing/fabrication shall be taken up only after obtaining necessary clearance from the Engineer-in-Charge.
15. The agency shall submit OEM manuals, datasheets, test certificates, warranty certificates, software/licence details, commissioning report and other relevant documents on completion of the work.
16. The agency shall submit invoices and delivery challans for the equipment/materials supplied under the work to the JE/AE/Engineer-in-Charge, as and when required.
17. The agency shall submit a minimum one-year on-site warranty/guarantee certificate from the OEM for the EV charger. During the warranty period, any defect/fault in the charger shall be attended to and rectified/replaced by the OEM/authorized agency/bidder free of cost, including labour, service and replacement of defective components.
18. The agency shall attend breakdown/service complaints within 24 hours of receipt of the complaint and shall submit quarterly service reports during the warranty period. In case of failure to attend/rectify the defect within the stipulated period, the Department shall be at liberty to get the same attended through the OEM/authorized agency at the risk and cost of the contractor.
19. The scope of work shall include all necessary hardware, software, licences, accessories, communication facilities, electrical accessories and incidental items required for complete and satisfactory SITC of the EV charging system. No extra payment shall be made for any item/accessory required for proper functioning of the system as per OEM recommendations, site requirements or directions of the Engineer-in-Charge.

न्यूनतम रु. के गैर-न्यायिक स्टाम्प पेपर पर. 100
(अनुबंधों के निष्पादन के संबंध में बैंक द्वारा सीपीडब्ल्यूडी को दी गई गारंटी)

On non-judicial stamp paper of minimum Rs. 100

(Guarantee offered by Bank to CPWD in connection with the execution of contracts)

बयाना राशि जमा/प्रदर्शन गारंटी/सुरक्षा जमा/मोबिलाइजेशन अग्रिम के लिए बैंक गारंटी का फॉर्म

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 notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.
7. This guarantee will not be discharged due to the change in the constitution of the Bank or the 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 to unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. (Rupees only) and unless a claim 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.....

Authorized signatory

Name and address

Name

Designation
Staff code no.

2. Signature

Bank seal

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.

LISTS OF APPROVED MAKES

S. No	Item		Approved Makes
1.	AC/DC Electric Vehicle Charger	:	ABB/Delta/Labotek/Schneider/Eatom/Zenergize
2.	FRLS PVC insulated copper conductor single core cable for wiring (ISI Marked)	:	Finolex/RR Kabel/KEI/Havells
3.	DWC HDPE Pipe	:	Duraline/Kamat/Pioneer/Gemini/Rex
4.	IP 65 Weather Proof Enclosure (Modular type)	:	Schneider/ABB/Legrand/ C&S/ L&T/ Syntex/ Hensel
5.	MCBDB & Loose wire box	:	Legrand (EKINOX-3)/ L&T (EXORA)/ Hager/ Schneider (ACTI-9)/ABB (Elegance)
6.	Current Transformer (CT)	:	Kappa/ AE/ Rishibi/Magnetic control
7.	Phase Indicating Lamps	:	Schneider/ABB/Simens/Legrand/L&T
8.	Glands & Lugs	:	Dowells/Comet/Barco/HMI/Jainson
9.	Fedder Pillar/ Panel Board Fabricators	:	CPRI Approved
10.	Any other items	:	As approved by Engineer-in-Charge

Note:

- a. *Materials specified in the List of Acceptable Makes for Electrical Materials shall be got approved from Engineer-in-charge before use on work. Decision of Engineer-in -charge shall be final regarding selection of the makes.*
- b. *Materials not specified in the List of Acceptable Makes for Electrical Materials shall be got approved from Engineer-in-charge before use on work. Decision of Engineer-in -charge shall be final in this respect.*

Executive Engineer (E)
VBED, CPWD, Jodhpur Hostel
New Delhi-110003

Schedule of Work

Name of Work: Comprehensive Maintenance of Sankalp Bhawan, K.G. Marg, New Delhi during 2026-27 [SH: (I) Operation & Maintenance of various E&M services for Electrical]

S. No.	Description of items	Quantity.		Rate	Unit	Amount
	Sub Head-I (Electrical Installation)					
1	Providing services for running maintenance & upkeep of internal Electrical installations & external electrical works/ equipments at Sankalp Bhawan, K.G. Marg, New Delhi, by deploying manpower on monthly basis in all days including Sundays & Holidays as per inventory and terms and conditions attached.					
	(a) Skilled/Wireman -06 Nos. (06:00 AM to 02:00 PM -01 No.) (09:00 AM to 05:00 PM -03 Nos.) (02:00 PM to 10:00 PM -02 Nos.)	6	Nos. for		Each	
		12	Months	42,012.00	P Month	30,24,864.00
	(b) Unskilled/Khallsi -04 Nos. (06:00 AM to 02:00 PM -01 No.) (09:00 AM to 05:00 PM -02 Nos.) (02:00 PM to 10:00 PM -01 No.)	4	Nos. for		Each	
		12	Months	34,469.00	P Month	16,54,512.00
2	Providing services of Supervisor cum Enquiry Clerk at CPWD Electrical Service Centre, Sankalp Bhawan, New Delhi, for checking, downloading, assigning, updating of all complaints of all the complaint, comes through CPWD sewa/ telephone/ in person, in the website of CPWD sewa i/c making necessary entries in worker's dairy, complete supervision of deputed staff etc, round the clock, on all the days (except on sundays & National holidays) etc. as required. all complete.	1	No. for			
	(a) Skilled/Supervisor cum Enquiry Clerk -01 No. (09:00 AM to 05:00 PM)	12	Months	35,920.00	P Month	4,31,040.00
	Sub Head-II (Operation of Sub station, DG Set & UPS)					
1	Providing services of running operation and upkeep of Electric sub- station having 3 nos. x 1500 KVA ,11 KV/433V transformer, HT panel, PLC based LT panel, APFC panel, 3 nos. x 1010 KVA,415V D. G .Set with PLC based synchronization panel & 3 nos. x 200 KVA UPS with incoming & outgoing panel installed at Sankalp Bhawan by deploying manpower on monthly basis in all days including Sundays & Holidays as per inventory and terms and conditions attached.					
	(a) Skilled/Operator -03 Nos. (One operator in each shift for round-the-clock operation)	3	Nos. for		Each	
		12	Months	42,012.00	P Month	15,12,432.00
	(b) Unskilled/Khallasl -03 Nos. (One khallasl in each shift for round-the-clock operation)	3	Nos. for		P Each	
		12	Months	34,469.00	P Month	12,40,884.00
	Sub Head-III (Operation of Lift)					
1	Operation of 20 passenger capacity MRL lift (2B+G+10 stop) Schindler make lift (attendant cum automatic operational mode) by providing. lift operator in each lift following staff as per Terms & Conditions, on all the days (except on sundays & National holidays) by deploying man power as per inventory and terms & condition attached.					
	(a) Skilled/Lift Operator - 09 Nos. (08:00 AM to	9	Nos. for		Each	

	04:00 PM -02 Nos.) (02:00 PM to 10:00 PM -02 Nos.) (09:00 AM to 05:00 PM -05 Nos.)	12	Months	35,920.00	P Month	38,79,360.00
2	Extra duty performed on Sunday/ Gazetted Holidays /beyond duty hours for item no 1 as mentioned above	200	Hrs.	173.00	P/Hr.	4,15,200.00
	Sub Head-IV (Operation & Routine Maintenance of Fire fighting system)					
1	Providing services of Operation and routine maintenance of fire fighting system i.e wet riser system complete with all its associated equipments & machineries at Sankalp Bhawan, New Delhi by deputing following staff as per the attached terms & conditions, on all the days including Saturday, Sunday & all type of Holidays etc. as required.					
	(a) Skilled/Operator -03 Nos. (One operator in each shift for round-the-clock operation)	3	Nos. for		Each	
		12	Months	42,012.00	P Month	15,12,432.00
	(b) Unskilled/Khallasi -03 Nos. (One khallasi in each shift for round-the-clock operation)	3	Nos. for		Each	
		12	Months	34,469.00	P Month	12,40,884.00
	Sub Head-V (Operation & Comprehensive Maintenance of Fire Alarm & PA System)					
1	Providing services of Operation and routine maintenance of automatic fire detection & alarm system, talk back system, Public Address system at Sankalp Bhawan, New Delhi by deputing following staff as per the attached terms & conditions, on all the days including Saturday, Sunday & all type of Holidays etc. as required.					
	(a) Skilled/Operator -03 Nos. (One operator in each shift for round-the-clock operation)	3	Nos. for		Each	
		12	Months	42,012.00	P Month	15,12,432.00
	(b) Unskilled/Khallasi -03 Nos. (One khallasi in each shift for round-the-clock operation)	3	Nos. for		Each	
		12	Months	34,469.00	P Month	12,40,884.00
2	Comprehensive Maintenance of addressable fire alarm & PA system (Bosch make) installed at Sankalp Bhawan, K.G.Marg, New Delhi. It includes cost of deployment of required number of experienced manpower, software upgradation, tools, tackles, parts, spares, equipments, consumables and all such material required for smooth and uninterrupted working as per inventory and terms & conditions attached.	12	Months	69,077.00	P Month	8,28,924.00
	Sub Head-VI (Operation of STP & PHE & Comprehensive Maintenance of STP & PHE & R.O. System)					
1	Providing services of Skilled STP Operator for operation, monitoring, testing, and routine upkeep of 200 KLD Venza make STP including operation, monitoring and routine upkeep of the KSB make Hydropneumatic Pump Set, on all days including Saturday, Sundays & Holidays, as per inventory and terms & conditions attached.					
	(a) Skilled/Operator -03 Nos. (One operator in each shift for round-the-clock operation)	3	Nos. for		Each	
		12	Months	42,012.00	P Month	15,12,432.00
	(b) Unskilled/Khallasi -03 Nos. (One khallasi in each shift for round-the-clock operation)	3	Nos. for		Each	
		12	Months	34,469.00	P Month	12,40,884.00

2	Comprehensive Maintenance of Venza make 200 KLD MBBR STP i/c tertiary treatment plant installed at Sankalp Bhawan, K.G. Marg, New Delhi i/c preventive maintenance , repairing/ replacement of all defective parts/accessories , consumables & membrane as per inventory and terms & condition attached.	12	Months	1,11,871.00	P/Month	13,42,452.00
3	Comprehensive maintenance of 1000 LPH centralized R. O. system Venza make installed at terrace of Sankalp Bhawan, K.G. Marg, New Delhi i/c preventive maintenance, consumables, repairing/ replacement of all defective parts i/c membrane etc. as per inventory and terms & condition attached.	12	Months	81,905.00	P/Month	9,82,860.00
	Sub Head-VII (SITC EV Charger)					
1	Parkbay DC Charger (Mode-3) Power Level 2: Normal Power ~24KW and above, 3 phase 415VAC(-40% to +20%), Frequency:50 Hz +/- 5%, output supply: DC 12/24 Volt, Operational temperature range : -25 to 55 0C (outdoor), -5 to 55 0C (Indoor), RH upto 95%, Charging Device as per Device/protocol: IS-17017-23, EV-EVSE Communication as per IS-17017-24, ISO15118, Infrastructure Socket as per IS-17017-2-2/3, Vehicle Connector as per IS-17017-2-3 Vehicle Inlet/ Connector As per EV manufacturer, suitable for 4 wheelers. Indoor use: at least IP42; Outdoor use: at least IP54. Mechanical Strength: protection of the external enclosure against mechanical impact shall be IK08 according to IEC 62262. O/L,S/C protection. Insulation Resistance > 1 M Ω . Cable Length: 7.5 m. RCD having a rated residual operating current not exceeding 30 mA; Separate RCD for multiple outputs. 95 Each Each 350914 84219 DELHI SCHEDULE OF RATES (E&M)-2025Telecommunication port of the EV supply equipment according to IS 13252 (Part 1) : 2010. OCPP(Open charge point protocol) 1.6J upgradable to ocpp 2.0. Device Should follow 17017 series of IS codes in general and the installation of the system shall comply with relevant IS Codes.	2	Nos. for	8,88,982.00	Each	17,77,964.00
	Total					2,53,50,440.00

Assistant Engineer (E)(P)
VBED, CPWD, Jodhpur Officer Hostel
New Delhi-110003

Executive Engineer (E)
VBED, CPWD, Jodhpur Officer Hostel
New Delhi-110003

PART -B

(Civil Work)

अनुसूचियों के प्रारूप / PROFORMA OF SCHEDULES

कार्यों की अनुसूचियां / SCHEDULES FOR WORK

अनुसूची 'क' SCHEDULE 'A'		:	
	मात्राओं की अनुसूची (संलग्न) Schedule of quantities (Enclosed)	:	As attached

अनुसूची 'घ' SCHEDULE 'D'		:	
	कार्य के लिए विशेष अपेक्षाएं/दस्तावेज, यदि कोई हों, की अतिरिक्त अनुसूची Extra schedule for specific requirements/documents for the work, if any.	:	As per – NIT, General Conditions, Special Condition, Additional Conditions, special condition for cement & paint,

अनुसूची 'ङ' SCHEDULE 'E'		:	
1	ढेके की सामान्य शर्तों का संदर्भ Reference to General Conditions of contract.	:	General Conditions of Contract for maintenance Works – 2023 with upto date correction slip issued upto the previous day to last date of submission of the tender.
(i)	कार्य का नाम: Name of Work: Comprehensive maintenance of Sankalp Bhawan, K.G. Marg, New Delhi during 2026-27. SH: (I) Operation & Maintenance of various E&M services for Electrical SH: (II) Annual Repair & Maintenance of Civil works.		
(ii)	कार्य की अनुमानित लागत Estimated cost of work:	:	As per Major Component
(iii)	धरोहर राशि Earnest money:	:	As per Major Component
(iv)	निष्पादन गारंटी Performance Guarantee :	:	a) 5% of Tendered Value or Estimated Cost Put to Tender (ECPT) (whichever is higher). b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.
(v)	प्रतिभूति निक्षेप: Security Deposit:	:	2.5% of Tendered Value

अनुसूची 'च' SCHEDULE 'F'		
सामान्य नियम एवं दिशा निर्देश: General Rules & Directions.		
	निवदा आमंत्रण करने वाला प्राधिकारी Officer inviting tender	: As per Major Component
परिभाषाएँ:—Definitions:		
2(v)	भार साधक इंजीनियर Engineer-in-Charge	: Executive Engineer, F- Division, CPWD, New Delhi or his successor thereof
2(viii)	स्वीकार कर्ता प्राधिकारी Accepting Authority	: Superintending Engineer Vigyan Bhawan, CPWD, New Delhi or his successor thereof
2(x)	अतिरिक्त और लाभों को पूरा करने के लिए सामग्रियों की लागत पर प्रतिशत Percentage on cost of materials and labour to cover all overheads and profits.	: 15%
2(xi)	दरों की मानक अनुसूची Standard Schedule of Rates	: DSR 2023 with correction slips upto previous day of the last date of submission of bid & Market Rate.
2(xii)	विभाग Department	: Central Public Works Department
9(ii)	मानक के.लो.नि.वि. ठेका फार्म, संशोधित और शोधित के.लो.नि.वि. फार्म Standard CPWD contract form	: CPWD form 7, GCC 2023 (Maint. Work) as modified and corrected upto the previous day to last date of submission of the tender.

खण्ड-1 Clause 1		
(i)	स्वीकृति पत्र जारी होने की तारीख से निष्पादन गारंटी के प्रस्तुती कारण के लिये अनुमत समय, दिनों में Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance, in days	: As per Major Component
(ii)	(उपयुक्त i) में दी गई अवधि के पश्चात अधिकतम अनुमेय एक्सटेंशन, दिनों में Maximum allowable extension with late fee @ 0.1% per day of performance guarantee amount beyond the period provided in (i) above	: As per Major Component

खण्ड-2 Clause 2		
	खण्ड-2 के तहत प्रतिकर निश्चित करने वाला प्राधिकारी Authority for fixing compensation under Clause 2	: Superintending Engineer Vigyan Bhawan
खण्ड-2ए Clause 2A		
	क्या खण्ड 2। क लागू होगा। Whether Clause 2A shall be applicable	: No

खण्ड-5 Clause 5		
	कार्य आरम्भ करने की तारीख की गणना के लिए स्वीकृति पत्र जारी होने की तारीख से दिनों की संख्या Number of days from the date of issue of letter of acceptance for reckoning date of start	: As per Major Component

लक्ष्य मील-पत्थर। सारणी : लक्ष्य नीचेदीर्घ सारणी अनुसार
List of Milestones : As per Table given below

Milestone(s) as per table given below : Applicable

क्र०सं० S.No.	लक्ष्य का विवरण (वास्तविक) Description of Mile Stone (Physical)	अनुमत्य समय/कार्य आरंभ की तारीख से/ Time allowed (from date of start)	लक्ष्य प्राप्त ना होने की स्थिति में रोकी जाने वाली राशि Amount to be withheld in case of non achievement of milestone
1	1/8 th (of the whole work)	1/4 th (of the whole work)	1% of tendered value of work will be withheld from failure of each mile stone
2	3/8 th (of the whole work)	1/2 (of the whole work)	
3	3/4 th (of the whole work)	3/4 th (of the whole work)	
4	Full	Full	

कार्य निष्पादित करने के लिए अनुमत्य समय Time allowed for execution of work	:	12 (Twelve) Months
---	---	---------------------------

निर्णायक प्राधिकारी Authority to Decide :			
i.	कार्य पूरा करने के लिए उचित और तार्किक समय विस्तार देने वाला प्राधिकारी Authority to convey the decision of shifting of milestone and extension of time	: Executive Engineer, F- Division, CPWD, New Delhi or his successor thereof	
ii.	उपलब्धियों का पुनः अनुसूचिकरण करने वाला प्राधिकारी Authority to decide rescheduling of milestone and extension of time	: Superintending Engineer Vigyan Bhawan, CPWD, New Delhi or his successor thereof	
iii.	कार्यस्थल को देरी से सौंपने पर कार्य प्रारम्भ की तिथि परिवर्तन करने वाला प्राधिकारी Shifting of data of start in case of delay in handing over of site	: Superintending Engineer Vigyan Bhawan, CPWD, New Delhi or his successor thereof	
खण्ड-5 Clause 5			
Clause applicable – (5 or 5A)		: Clause 5	
Proforma of Schedule Clause 5 Schedule of handing over of site			
Part	Portion of site	Description	Time Period for handing over reckoned from date of issue of letter of intent
Part A	Portion without any hindrance	100% site	4 Days
Part B	Portions with in cumbrances	Nil	N.A.
Part C	Portions dependent on work of other agencies	Nil	N.A.

खण्ड-6 Clause 6	
Computerized Measurement Book (CMB)/Electronic Measurement Book (EMB)	
Mode of measurements	EMB (Electronic Measurement Book) through ERP (As per circular DG/CON-Maintenance-2020/338 dt. 13.04.2023).

खण्ड-7 Clause 7	
अंतरिम भुगतान के लिए पात्र होने के लिए अंतिम ऐसे भुगतान के बाद कुल भुगतान एकत्रित सामग्रियों के अग्रिमों के समायोजन सहित किया जाने वाला कुल कार्य Gross work to be done together with net Payment/adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment	Rs. 11.80 Lakhs

Note: - Payment of work done may be late due to non-availability of budget, no any claim for the delay in payment will be entertained.

खण्ड-7ए Clause 7A (Modified)	
Whether Clause 7A shall be applicable.	Yes No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable is submitted by the contractor to the Engineer-in-charge.

खण्ड-8 Clause 8	
The competent authority to inspect and issue of completion certificate	<i>Executive Engineer, F- Division, CPWD, New Delhi or his successor thereof</i>

खण्ड-10(क) Clause 10A	
ठेकेदार द्वारा कार्यस्थल पर उपलब्ध करायी जाने वाली सामग्री की सूची। List of material to be provided by the contractor at site lab.	<i>Maintenance of Material at Site (MAS) Register</i> (a) MAS register of the key materials including Cement, Steel Bitumen, Paint, Primer, Distemper, Varnishes, Tile Adhesive, Admixture, Anti termite chemical Water proofing compound material and other items as required by Engineer-in-Charge, and shall be maintained as per proforma in Appendix-XX of GCC. All the entries in the MAS registers are made by the designated staff of the contractor and same is reviewed weekly by the authorized representative and fortnightly by the Engineer-in-Charge. However, contractor is responsible for maintenance and safe custody of MAS register. (b) The self-attested copies of tax paid bill of all the materials entered in the MAS register shall be submitted by the contractor at the time of review by representative of Engineer-in-Charge. In case of any doubt, genuineness of the tax paid bills; it can be verified by the representative of the Engineer-in-Charge or the Engineer-in-Charge, however, onus of genuineness of tax paid bills rest with the contractor.

खण्ड-10(ख)(ii) Clause 10B(ii)	
क्या खण्ड 10(ख) (ii) लागू होगा। Whether Clause 10B (ii) shall be applicable	Not Applicable
खण्ड-10(ग) Clause 10C	
श्रम घटक को कार्य के मूल्य के प्रतिषत के रूप में अभिव्यक्त किया गया है। Whether Clause 10C shall be applicable	Yes
Component of material / labour expressed as percent of value of work of respective discipline	25% (Schedule item no: - 1 to 70 & 83) 100% (Schedule item no: - 71 to 82)
खण्ड-10(ग)(ग) Clause 10CC	
उन संविदाओं पर लागू होगा जिसमें कार्य समापन की अवधि, अगले कालम में दर्शायी गई अवधि से अधिक अनुबंधित हैं। Clause 10CC to be applicable in contracts with stipulated period of completion exceeding the period shown in the next column.	N/A
मूल्यवृद्धि के लिए अन्य सामग्री, श्रम, पी.ओ.एल आदि के घटकों की अनुसूची। Schedule of component of other Materials, Labour, POL etc. for price escalation. निर्माण कार्य सामग्री के लिए सिविल घटक (खंड 10 ग के अन्तर्गत शामिल सामग्रियों को छोड़कर)/वैधुत कार्य में कुल मूल्य के प्रतिषत के रूप में प्रदर्शित	
Not Applicable	

खण्ड- 11 Clause 11	
कार्य निष्पादन के लिए अनुपालन किए जाने वाले विनिर्देश Specifications to be followed for execution of work	The work shall be carried out as per CPWD Specification 2019 Vol-I & II with upto date correction slips.

खण्ड- 12 Clause 12	The completion cost shall in no case exceed 1.5 times the contract amount	
Authority to decide deviation of contract amount	Upto 1.25 times the contract amount	Executive Engineer (C), VBD, CPWD or his successor
	Beyond 1.25 times upto 1.50 times of contract amount	Superintending Engineer, Vigyan Bhawan, CPWD or his successor

Type of work	Comprehensive Maintenance of Sankalp Bhawan, K.G. Marg, New Delhi during 2026-27 SH: (I) Operation & Maintenance of various E&M services for Electrical Works. SH: (II) Annual Repair & Maintenance of Civil works.
The completion cost shall, in no case exceed 1.5 times the contract amount. Contractor will devise a system to keep a watch on quantum of work taken up vis-à-vis balance items required to complete defined scope of work and will give the alerts to Engineer-in-charge before taking up extra items(s), deviations(s) so that completion cost done not exceed above limit. Work executed beyond above limit with neither be recorded nor be paid. The Contractor will not have any claim(s) whatsoever on this amount.	

खण्ड-16 Clause 16	
घटी हुई दरे निर्धारित करने की लिए सक्षम प्राधिकारी Competent Authority for deciding reduced rates.	<i>Superintending Engineer, Vigyan Bhawan for 5% of contract Value.</i> <i>ADG (RD), beyond 5% of contract Value.</i>

खण्ड-18 Clause 18	
कार्यस्थल पर ठेकेदार द्वारा लगाये जाने वाली अनिवार्य मशीनरी, औजार एवं सयंत्रों की सूची: List of mandatory machinery, tools & plants to be deployed by the contractor at site:	: Not Applicable

खण्ड-19 Clause 19	
Authority to decide penalty for each default	
Clause 19C	Executive Engineer (C), F- Division, CPWD or his successor
Clause 19D	Executive Engineer (C), F- Division, CPWD or his successor
Clause 19G	Executive Engineer (C), F- Division, CPWD or his successor
Clause 19K	Executive Engineer (C), F- Division, CPWD or his successor

खण्ड-25 Clause 25		
S.No.	Designations	
1	Conciliator	ADG(Delhi)
2	Arbitrator Appointing Authority	SE,Vigyan Bhawan
3	Place of Arbitration	New Delhi

खण्ड-32 Clause 32				
Requirement of Technical Representative(s) and: Applicable Recovery Rate General Guidelines for fixing requirement for Technical Staff for a work			Applicable	
Cost of Work (Rs. In Crores)	Requirement of Technical Staff	Minimum Experience (year)	Designation	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 32
	Qualification	No.		
As per Major Component				

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 condition that such diploma should not exceed of 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 C.P.W.D. | | |
| (ii) | Variations permissible on theoretical quantities: | | |
| (a) | Cement | | |
| | For works with estimated cost put to tender not more than Rs. 25 lakh. | | 3% plus/minus. |
| | For works with estimated cost put to tender more than Rs.25 lakh. | | 2% plus/minus. |
| (b) | Bitumen All Works | | 2.5% plus only & nil o
minus side |
| (c) | Steel Reinforcement and structural steel sections for each diameter, section and category | | 2% plus/minus |
| (d) | All other materials. | | Nil |

**Executive Engineer
F- Division
CPWD, New Delhi**

Appendix-XX**REGISTER OF MATERIAL AT SITE (MAS)**

1. Division/Sub-division -----

2. Name of Work -----

3. Name of Article/item -----

4. Estimated Requirements -----

S. No.	Date of receipts (Details of challans/Bills , Specific location where plants and Materials received/Vehi cle No.	Received from/issued to	Quantity Received	Date of issue	Specific location where plants & Materials Displayed /Delivere d/issued	Quantity issued	Balance Quantity	Signature of authorized representat ive of contractor	Signature of authorized representat ive of Engineer- in- Charge/AE /EE/	Remarks
1	2	3	4	5	6	7	8	9	10	1 1

Monthly Progress Report

Sl.no	Items	Quantity as per agreement	Quantity achieved till Last month	Quantity executed during month	Details of rooms, location, floor, wing etc. where item execute during this month
1					
2					
3					
4					
5					

Certified that all the measurement of the work done during the past month has been taken in this report and I will not claim any work done for this month other than the above.

Name of Agency: -

Signature of Contractor: -

BRIEF PARTICULARS OF THE WORK

2. Salient details of the work for which tenders are invited are as under: -

Sl. No.	Name of work	Estimated Cost	Period of Completion
1.	Comprehensive Maintenance of Sankalp Bhawan, K.G. Marg, New Delhi during 2026-27 SH: (I) Operation & Maintenance of various E&M services for Electrical Works. SH: (II) Annual Repair & Maintenance of Civil works.	Rs. 3,93,02,891/-	12 Months

4. The work is situated at Sankalp Bhawan, New Delhi.

5. General features and major components of the work are as under: -

- I. The estimate includes the A/R & M/O in Sankalp Bhawan such as repair of plaster, cement concrete, internal painting of rooms i/c corridors with plastic emulsion paint, Oikos Paint, synthetic enamel paint & external painting etc.
- II. Half yearly cleaning of Over Head & Under Ground water storage tanks and cleaning of sewer line.
- III. Road marking with thermoplastic paint, Lettering with Spirit Based paint and Removal of malba.
- IV. Annual maintenance of automatic urinal flushing systems and replacements of damaged plumbing items.
- V. Supply of plumbing and carpenter related items for day-to-day maintenance.
- VI. Providing services of carpenter, plumber, mason, sewer man and Enquiry Clerk for attending day-to-day complaints.
- VII. The estimate also includes providing service to computer operator in Directorate, CPWD and Providing services of well-dressed traffic attendants for controlling vehicular traffic in Sankalp Bhawan, etc.
- VIII. The estimate also includes replacement of damaged kerb stones, tactile tiles etc.

GENERAL CONDITIONS

1. The work in general shall be executed as per the description of the items, special conditions, provisions of this tender document and the CPWD Specifications 2019 Vol-I & II with correction slip as referred in the tender document supplemented with the specifications.
2. The order of preference in case of any discrepancy as indicated under “Conditions of Contract” given in the Standard CPWD Contract form may be read as the following:
 - a) Nomenclature of item as per Schedule of Quantities.
 - b) Particular specifications, Additional Specifications, special conditions for civil and electrical.
 - c) General conditions.
 - d) Additional conditions.
 - e) Contract Clauses of Standard CPWD Contract form 2023(Maintenance work).
 - f) CPWD Specifications for civil work.
 - g) Architectural/structural drawings and specifications mentioned in drawings.
 - h) Indian Standard Specifications of BIS.
 - i) Sound engineering practice as per directions of the Engineer-in-Charge.
 - j) Manufacturers specifications.

A reference made to any Indian Standard Specifications in these documents, shall imply reference to the latest version of that Standard, including such revisions/ amendments as issued by the Bureau of Indian Standards upto 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.
3. The contractor(s) shall give to the Municipality, police and other authorities all necessary notices etc. that may be required by law and obtain all requisite licenses for temporary obstructions, enclosures etc. and pay all fee, taxes and charges which may be leviable on account of these operations in executing the contract. He shall make good any damage to the adjoining property whether public or private and shall supply and maintain lights either for illumination or for cautioning the public at night. The contractor(s) shall do the barricading upto 3 m height enclosing the area as per direction of Engineer-in-charge.
4. The Contractor(s) shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night, speed limit boards, red flags, red lights and providing barriers. He shall be responsible for all damages and accidents caused to existing/new work due to negligence on his part. No hindrances shall be caused to traffic during the execution of the work. In case of any accident of labours / contractor(s) staff the entire responsibility will rest on the part of the contractor and any compensation under such circumstances if becomes payable the same shall be entirely born by the contractor and department shall have no role on this account.
5. The Contractor(s) shall take instructions from the Engineer-in-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other construction activities to be carried out. The stacking shall take place as per stacking plan however, if any change is required, the same shall be done with the approval of Engineer-in-Charge.
6. Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to bye-laws of municipal body/corporation, where CPWD specifications are not available. The Contractor (s) should engage approved, licensed plumbers for the work and get the materials (fixtures/fittings) tested, by the municipal Body/Corporation authorities wherever required at his own cost. The Contractor(s) shall submit for the approval of the Engineer-in-Charge, the name of the plumbing Agency proposed to be engaged by him.
7. The contractor shall give performance test of the entire installation(s) as per the specifications in the presence of the Engineer-in-charge or his authorized representative before the work is finally accepted and nothing extra what-so-ever shall be payable to the contractor for the test.
8. Any cement slurry added over base surface (or) for continuation of concerting for better bond is deemed to have been built in the items and nothing extra be payable (or) extra cement considered in consumption on this account.

9. The department shall not bear responsibility for lack of knowledge of site condition and also the consequences thereof. The information and site data shown in the drawings and mentioned herein and also elsewhere in the tender documents are being furnished for general information and guidance only. The Engineer-in-charge in no case shall be held responsible for the accuracy thereof or any interpretation / or conclusions drawn there from by the contractor.
10. The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-in-Charge and shall as far as possible 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 contractor simultaneously working or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.
11. The work shall be carried out in accordance with the Architectural drawings and structural drawings, to be issued from time to time, by the Engineer-in-Charge. Before commencement of any item of work, the contractor shall correlate all the relevant architectural and structural drawings issued for the work and satisfy himself that the information available there from is complete and unambiguous. The discrepancy, if any, shall be brought to notice of Engineer-in-Charge before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and or incomplete information.
12. The contractor shall leave such recesses, holes, openings etc. as may be required for the electric, air-conditioning and other related works (for which inserts, sleeves, brackets, conduits, base plates, clamps etc. shall be supplied free of cost by the department unless otherwise specifically mentioned) and the contractor shall fix the same at the time of casting of concrete, stone work & brick work etc., if required, and nothing extra shall be payable on this account.
13. No payment shall be made for any damage caused by rain, snowfall, flood or any other natural calamity, whatsoever during the execution of the work. The contractor shall be fully responsible for any damage to the Govt. property and work for which the payment has been advanced to him under the contract and he shall make good the same at his risk and cost.
14. Any discrepancy in the drawing /nomenclature of item /additional specification etc. shall be got clarified from Engineer in Charge. Decision of Engineer in Charge shall be final and binding on the agency.
15. The work is to be carried out in more than one shift or during night, no claim on this account shall be entertained. The contractor has to take permission from the police authorities etc. if required for work during night hours, no claim/hindrance on this account shall be considered if work is not allowed during night time.
16. Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. In case the same are to be removed and diverted. The same shall be payable to the contractor. The contractor shall work out the cost and the same shall be approved by Engineer-in-Charge. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.
17. The Contractor shall be responsible for the watch and ward / guard of the buildings safety, fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the department. No extra payment shall be made on this account.
18. Sample of building materials, paints, distemper, fittings and other articles required for execution of work shall be got approved from the Engineer-in-Charge before use in the work. The quality of samples brought by the contractor shall be judged by standards laid down in the relevant BIS specifications. All materials and articles brought by the contractor to the site for

use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work.

19. BIS marked materials except otherwise specified shall be subjected to quality test at the discretion of the Engineer-in-Charge besides testing of other materials as per the specifications described for the item/material. Wherever BIS marked materials are brought to the site of work, the contractor shall, if required, by the Engineer-in-Charge, furnish manufacturer's test certificate or test certificate from approved testing laboratory to establish that the material / procured by the contractor for incorporation in the work satisfies the provisions of specifications / BIS codes relevant to the material and / or the work done.
20. The contractor shall be fully responsible for the safe custody of materials brought by him / issued to him even though the materials may be under double lock and key system.
21. The contractor shall procure the required materials in advance so that there is sufficient time to testing of the materials and clearance of the same before use in the work. The contractor shall provide at his own cost suitable weighing and measuring arrangements at site for checking the weight / dimensions as may be necessary for execution of work. The sealed samples are to be handed over to the testing lab by contractor in the presence of Junior Engineer-in-charge of work.
22. The work is to be carried out in a restricted area. It shall be deemed that the contractor has satisfied himself as to the nature and location of the work, general and local conditions and particularly those pertaining to transport, including the restrictions on plying trucks etc. The department may provide all assistance by way of reasonable recommendations, in obtaining permits for plying trucks etc. from the concerned traffic authorities but bears no responsibility for the same. It shall be assumed that the contractor has also satisfied himself about, handling, availability and storage of materials, availability of labour, weather conditions at site and general ground level and the contractor has estimated and calculated his cost accordingly.
23. The tenderer shall study carefully, the building drawings, specifications, schedule of quantities and conditions of the tender documents to fully appreciate the scope of work before quoting his rates.
24. The building work shall be carried out in the manner complying in all respects with the requirements of relevant bye-laws of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-Charge and nothing extra shall be paid on this account.
25. The contractor shall ensure the stability of the excavation so that the surrounding ground and all adjoining structures and plants will be safe against settlement, subsidence, and damage and that there is no risk of injury to personnel.
26. The contractor shall not stack building material/malba on the NDMC land or road or on the land owned by any other authority, as the case may be. In case, the Contractor is found stacking the building material/malba as stated above, he shall be liable to pay the stacking charges as may be levied by NDMC or any other local body or authority and also to face penal action as per the rules, regulations and bye-laws of the said body or authority. The Engineer-in-Charge shall be at liberty to recover the sums due but not paid to the concerned authorities on the above counts from any sums due to the contractor including amount of the Security Deposit or Retention Money in respect of this contract or any other contract.
27. The contractor shall be responsible for arranging at his own cost all necessary tools and plants required for proper execution of work.
28. All tools, plant and machinery provided by the contractor shall, when brought on to the site, be deemed to be exclusively intended for the construction and completion of this work and the contractor shall not remove the same or any part thereof (say for the purpose of moving it from one part of the site to another) without the consent of the Engineer-in-Charge.

29. The rates for various items of the work shall apply for all floor heights and depths unless otherwise specified in the relevant items or schedule of quantity attached with this tender document.
30. All incidental charges of any kind whatsoever including cartage, storage, cutting and wastage etc., shall be borne exclusively by the contractor and nothing extra shall be paid to him on this account.
31. The contractor shall provide at his own cost suitable weighing measures, levelling equipment's and measuring equipment's & construction water testing kits, etc. at site for checking the weight, dimensions and levels as may be necessary for execution of work.
32. **Testing of Materials:-**
 - (a) The contractor shall procure all the materials in advance so that there is sufficient time for testing and approving of the material and clearance of the same before use in work.
 - (b) All the materials brought by the contractor for use in the work shall be got checked/ approved from Engineer-in-charge or his authorized representative of the work on receipt of the same at site before use.
 - (c) Contractor has to produce manufacturer's test certificate for each of lot of cement and steel procured at site.
 - (d) With a view to avoid controversy about quality of cement concrete as revealed in the test results of 7 days cubes falling short of the prescribed standards by over 10% to 20% and pending, testing of balance 3 cubes for 28 days as final confirmatory acceptance test, crushed samples of cement concrete from the failed 7 days cubes should be preserved in a sealed bag.
 - (e) In case of concrete and reinforced concrete work the contractor shall be required to make arrangement for carrying out compression strength tests at his own cost. He shall render all assistance for the preparation of cubes, safe custody of the same proper curing and carriage upto the laboratory where the test is to be performed. The cube tests can be performed at any laboratory approved by the Engineer-in-charge.
 - (f) All Testing of material shall be done as per clause 10A of the Agreement.
 - (g) **The contractor shall bear all charges and cost of testing of materials for all mandatory test required as per CPWD Specification 2019 Vol. I & II with correction slips upto previous day of the last date of receipt of tender.
For non-mandatory test of material if testing is required then only the testing charges shall be borne by the department if the material passes the tests conducted.**
 - (h) For non-mandatory test of material, if testing is required then only the testing charges shall be borne by the department if the material passes the tests conducted.
33. The day to day receipt and issue accounts of cement, paint, distemper etc. shall be maintained in the standard proforma by the Junior Engineer/Assistant Engineer in-charge of the work and which shall be duly signed by the contractor or his authorized representative.

List of approved Labs

As per CPWD Works Manual SOP No. 5/16 provided by OM No. DG/SOP-2024/07 dated 29.10.2024 and requirement of field units competent authority has approved following Laboratories in Government/Semi Government for ADG(Delhi) Region for testing of material used in construction.

- (i) NSIC Technical Service Center(NTSC), Okhla, New Delhi.
- (ii) Delhi Technological University (DTU), Delhi
- (iii) Netaji Subhash University of Technology (NSUT), Delhi.
- (iv) National Test House (NTH), Ghaziabad.
- (v) Central Building Research Institute Roorkee.
- (vi) National Institute of Technology (NIT), Delhi.
- (vii) M/s Arihant Analytical Laboratory Pvt. Ltd.

In view of above after 29.02.2025, no private Lab is empanelled under ADG (Delhi) Region. So to carry out testing of materials used for construction/maintenance works same shall be done through Govt. institutes/Govt. Laboratories / ADG (Delhi) approved lab only.

कार्यपालक अभियंता
Executive Engineer

विशेष शर्तें / SPECIAL CONDITIONS

1. The contractor shall comply necessary watch and ward establishment for the safe custody of materials at his own cost.
2. Required quantity of cement shall be issued to the contractor on day to day basis from store at concerned C.P.W.D. Enquiry office by the J.E. in charge of work. No cement godown is to be constructed at site of work. Nothing extra shall be paid or deducted from the contractor on this account.
3. The contractor will maintain an A/C of receipts of malba disposed off at authorized dumping ground, these receipts will be attached along with the R/A/ final bill while forwarded to division office for payments.
4. **“Provision for labour camp: -** The contractor shall have to make his own arrangement for housing facilities for staff and labour away from construction site and shall have to transport the labour to and fro between construction site and labour camp at his own cost. No labour huts will be allowed to be constructed at the project site except a few temporary sheds for chowkidars and storekeepers. The decision about how many huts can be allowed for chowkidars and storekeepers at project site shall rest with the Engineer-In-Charge and the contractor shall have no claim on this account.”
5. The Contractor shall be responsible for any mishappening, security and safety for the labourers for which he has to take precautions to avoid any incident.
6. The contractor should submit a tentative programme of work within period as mention in schedule-F. The contractor will have to work as per programme of the department. No claim what so ever will be entertained on this account.
7. The contractor shall make his own arrangements for obtaining electric connections, if required and make necessary payments directly to the department concerned.
8. No payment shall be made to the contractor for any damaged caused by rain, snowfall, floods or any other natural cause what so ever during the execution of work. The damage to work will be made good by the contractor at his own cost, and no claim on this account shall be entertained.
9. The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion or the work being performed by other contractor (S) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed, so as not to interfere with operations of other contractors, or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.
10. Some restrictions may be imposed by the security staff or any other law enforcing agency etc. on the working and/or movement of labour, materials etc. the contractor shall be bound to follow all such restrictions / instruction and nothing extra shall be payable on the account.
11. Disposal of dismantled material will have to be made in such a way that no inconvenience is caused to the existing offices.
12. All such materials will be brought down and removed in proper packing to avoid unwanted spilling and damages to the existing structure for which nothing extra shall be paid.
13. Lifting of material shall also be carried out in proper manner and as per approval of the users of the building.
14. Quoted rates shall be for completed work inclusive of cost of all materials, labour, carriage, machinery and equipment, tools and plants, transportation, risks, overheads and general liabilities/obligations as mentioned and profits, royalties, fees, rent, excise duty, custom duty, sales tax, value added tax, Octroi, entry tax, wages, etc. as per prevailing rules. The contractor shall pay necessary taxes, such as VAT, central excise duty, custom and service taxes etc. as above to relevant authorities and deposit the copy of receipt with respective R/A Bills.
15. 1% (One percent) water charges shall be recovered on the gross amount of bill from the contractor, if the Govt. water is used and 1% Labour cess shall also be recovered on the gross amount of the bill of the contractor.
16. 0.25% (Zero Decimal Two Five Percent) Electricity charges shall be recovered from the Gross Amount of the bill, if the Govt. Electricity is used.
17. Whenever VAT is written may be read as GST (Goods and Service Tax).
18. The work is to be carried out in the area where unauthorized encroachment and unauthorized constructions has been done by some jhuggi dwellers.
19. There may be some resistance from the occupants of unauthorized jhuggi dwellers and the agency has to work in that atmosphere, however necessary police protection if required shall be arranged by the department.
20. The site may be handed over in parts to avoided any undue protest from the jhuggi dwellers.

21. The department shall not be responsible for any pilferage of material at site. The agency has to make his own arrangement for security of the material.
22. The agency shall upload of laborer welfare details in Web based project monitoring system on CPWD web site contractor's login & shall be updated by him/her every month till completion of work. No payments shall be made to agency if he/ she fails to upload/update the laborer welfare details in Web based project monitoring system.
23. **The agency shall provide copy of Itemized bill of all materials to the concerned J.E of work. All the registers related to work shall be maintained online by the contractor on ERP.**
24. As per DG CPWD OM No. 9/2/2024/का.-II /म.नि./46(हि) dated 24.05.2024 in compliance of order dated 29.01.2024/06.05.2024, of the Hon'ble Delhi High Court, In the matter of CONT. CAS. No. 220/2022 titles as "New Delhi Nature Society Vs Rajesh Bansal & Ors." **In case any work is to be commenced, which is within two meters radius from any existing tree, the permission of the Tree Officer shall have to be taken by agency which undertakes Civil Work as a mandatory condition. In case there is non-compliance of the aforesaid condition of taking permission from the Tree Officer, the same shall entail strict penalty by appropriate authority.**
25. **The contractor shall take immediate action as per direction to attend the complaint/ work assigned to him through site order book or verbal instructions or telephones or email or WhatsApp from Engineer-in-Charge or his authorized representative, failing which a recovery of Rs. 1,000/- per day in delay shall be made from his bill for each failure.**
26. **The contractor shall provide full dress to the deployed workers with "C.P.W.D." logo on the back and front pocket on the shirt etc complete as per the direction of Engineer in Charge, failing which a recover of Rs. 100 per day for each labour shall be made from his bill.**
27. 100% 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 with GST bill before commencement of the painting work.
28. 100% quantity of the supply materials for day to day maintenance like door closer, multipurpose lock, mortice lock, S.S. handles, keyboard slide channel, security lock, door stopper, door catcher, health faucet etc. should be deposited with JE-in-charge with GST bill before commencement of the work.
29. The attendance of all the employees shall be marked in Biometric Attendance System (Finger or Photo Both) and the daily attendance sheet shall be provided to Junior Engineer-in-charge of the work by the contractor. Necessary arrangement for installation of Biometric Attendance Machine shall be done by the agency at his own cost. Nothing extra shall be paid by the department on this account.
30. **Payment of the bills to the agency will be made on the availability of budget. No Claim for delay of payment will be entertained. But the wages of every persons shall be paid in full before the expiry of seventh day after the last day of wage period in respect of which the wages are payable. In case of failures of payment of wages to the persons recovery at the rate of Rs. 400 per day per persons will be made. Contractors should consider it before bidding for tender as nothing shall be paid on this account.**
31. Bonus shall be paid to the worker as admissible as per Bonus Act-1965 and the same shall be reimbursed by the department after claim made by contractor. In case of default, the contractors are liable for prosecution for non-payment of bonus under section 28 of the Act and in addition to prosecution, the due amount of bonus is recoverable u/s-33(C)(1) of Industrial Disputes Act, 1947 and the said amount if not paid, is recovered as arrears of land revenue. For delayed payment of bonus to workers a recovery at the rate of Rs. 1000/- per day per person will be made.
32. The EPF and ESI will be deposited directly by the contractor to the concerned authorities and same will be reimbursed to the contractor after submitting original receipts to the department. An amount of Rs. 100,000/- per month will be withheld from each running bill and same will be released to the contractor after submitting original receipt to the department. The receipt should clearly indicate name of work and list of workers with their names, durations and other required information. In case, the contractor failed to submit the original receipt, the withheld amount will be submitted to the concerned authority as per law.
33. The Malba/building rubbish received from dismantling and the wastages after execution of works shall be collected every day by the contractor at dumping ground decided by the Engineer in charge and the same shall be disposed of daily to designate dumping ground failing which a sum of Rs. One Thousand (1,000/-) per day shall be recovered from the contractor.
34. In case of doubt, Engineer-in-Charge or his authorized representative may ask "Tax Paid Bill" of any material from the contractor, to check that the material is original / duplicate,

then Contractor has to bound to produce the Tax Paid Bill, failing which the item will not be paid.

35. Contractor should submit monthly progress report in the prescribed format on or before 5th day of each month, failing which a recovery of Rs. 10,000/- shall be made on per week or part basis in case of delay in submission of the monthly progress report.

Additional Conditions

1. The tenderers shall acquaint him with the proposed site of work, its approach roads, working space available before quoting his rates.
2. The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupiers of adjacent properties and to the public in general and to prevent any damage to such properties and any pollution of smoke, streams and water-ways. 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 thereon by the contractor. All waste or superfluous materials shall be carried away by the contractor without any reservation entirely to the satisfaction of the Engineer-in-Charge.
3. 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 building.
4. The contractor shall be entirely and exclusively responsible for the horizontal, vertical and other alignment, the level and correctness of every part of the work and shall rectify effectively any errors or imperfections therein. Such rectifications shall be carried out by the contractor at his own cost to the instructions and satisfaction of the Engineer-in-Charge.
5. The proposed work is to be carried out in a prestigious building and quality of work is of paramount importance. Contractor shall have to engage well experienced skilled labour and deploy modern T&P and other equipment's to execute the work. Work will specifically require engagement of skilled workers having experience particularly in execution of such items.
6. Samples of all building materials, fittings and other articles required for execution of the work shall be got approved from the Engineer-in-Charge. Articles manufactured by Firms of repute and approved by the Engineer-in-Charge shall only be used. Articles classified as "First Quality" by the manufacturer shall be used unless otherwise specified. Preference shall be given to those articles which bear BIS Certification mark. In case articles bearing BIS Certification mark are not available, the quality of samples brought by the contractor shall be judged by the standards laid down in the relevant BIS specifications. All materials and articles brought by the contractor to the site for use shall conform to the samples approved by the Engineer -in-Charge which shall be preserved till the completion of the work.
7. The contractor shall be required to produce samples of all materials to be arranged and procured by him sufficiently in advance to obtain approval of the Engineer-in-charge. Subsequently the materials to be used in the actual execution of the work shall strictly of the same quality of samples approved. In case of variation in the quality, such materials shall be liable to rejection. The rejected material shall be immediately removed from the site of work by the contractor at his own cost. If the contractor fails to remove the rejected material from the site within 48 hours of their rejection, the Engineer-in-charge is authorized to remove the same at the risk and cost of the contractor. No claim financially or otherwise shall be entertained on account of any reason whatsoever.
8. The contractor shall ensure quality execution in a planned and time bound manner. Any sub-standard material/ work beyond set out tolerance limits shall be summarily rejected by the Engineer-in-Charge.
9. Best make of approved quality of all paints, distemper, fittings, fixtures, hinges, screws, nails etc. shall be used after getting the samples of same approved by the Engineer-in-charge
10. Wherever the construction is taken up, the contractor shall provide at his own cost an all weather motorable track/parking place if considered necessary by the Engineer-in-charge entirely to his satisfaction to facilitate the movement and parking of inspection vehicles.
11. No inflammable materials including P.O.L. shall generally be allowed to be stored at site. However, reasonable quantity may be permitted for storage subject to the compliance of all

rules / instructions issued by the competent authorities and as per the direction of Engineer-in-Charge.

12. In the event of any restrictions (including temporary suspension of work) being imposed by the Security agency, CPWD, Traffic or any other authority having jurisdiction in the area on the working or movement of labour /material, the contractor shall strictly follow such restrictions and nothing extra shall be payable to the contractor on this account. The loss of time on this account, if any, shall have to be made up by generating additional resources etc. General Security restrictions are given as under:
 - (i) The movement of trucks and vehicles shall be regulated in accordance with rules and regulations as approved by competent authority.
 - (ii) The contractor shall inform, in advance, the truck registration numbers, ownerships of the trucks, names and addresses of the drivers for necessary action by the Security agency.
13. All the malba shall be disposed by the contractor to the dumping ground approved by the MCD/NDMC or as directed by the Engineer-in-charge. The site shall be kept neat and clean during and after the completion of the work
14. The dismantling/demolishing where required shall be done in a manner that no other portion of the building or its fixture or the existing flooring is damaged. In the event of any such damages, the same shall be made good by the contractor at his own cost and no claim whatsoever will be entertained on this account.
15. Water Charges, Income Tax, GST and other taxes shall be recovered from the gross amount of the bills as per relevant rules.
16. This building& its surroundings are restricted area where movement of vehicles is oftenly restricted. The contractor shall have to apply for passes well in advance for carrying out the work including safety measures. No claim shall be entertained for any loss on this account.
17. The contractor shall be solely responsible for any act of omission on the part of the labour.
18. The contractor has to submit fortnightly labour reports mandatory.
19. Samples of all materials shall be got approved from the Engineer-in-charge before bringing the lot.
20. The contractor shall be required to comply with the provisions of Delhi Labour Welfare Fund notified by the Delhi Govt. on 13.7.04 including its modification till date.
21. The rates of all items shall be inclusive (unless specified clearly) of cost of labour, material, taxes, cartage and other aspects involved in the execution of work and nothing extra shall be payable on any account.
22. Contractor shall provide name, father's name, residential address and other details i/c photo as may be required by the security staff for issue of photo pass to the labour engaged on work.
23. The contractor shall be responsible for behaviour and conduct of his labourer. The contractor shall engage no labourer with doubtful integrity or having a bad record.
24. Department shall not be responsible for any loss of material brought by the contractor at site.
25. During execution of work, contractor shall make necessary arrangements for cleaning of common areas daily after the work.
26. No labour huts will be allowed to be constructed at the work site. The contractor shall have to make his own arrangement for transportation of labourers at work site and back at his own cost. Nothing extra shall be payable on this account.
27. The contractor shall make his own arrangements for obtaining electric connections, if required and make necessary payments directly to the department concerned.

28. Some restrictions may be imposed by the security staff or any other law enforcing agency etc. on the working and/or movement of labour, materials etc. the contractor shall be bound to follow all such restriction / instruction and nothing extra shall be payable on the account.
29. The work may be permitted to be done in odd hours in case of urgency, subject to the permission for security for which nothing extra shall be payable.
30. The contract agency is bound to strict compliance to the directions of Hon'ble National Green Tribunal on Air Pollution etc. from construction and demolition activities during the currency of Agreement. Any violation of such directions resulting fine/penalty by the competent authority shall be borne by the contract agency.
31. It shall be mandatory for the field staff to retain the self-attested (by agencies/contractor) copies of Tax paid bills of the materials entered in the MAS register viz., Steel cement, bitumen, paint primer, distemper, varnishes tiles adhesive, admixture, anti-termite chemical, water proofing compound materials and any other item as decided by the NIT approving authority.
32. Self-attested copies of tax paid bills of materials taken in MAS register shall be obtained by the field staff from the agencies/contractor before settling the payments. In case verified by the field staff. However, onus of genuineness of tax paid bills rests with the agencies/contractor.

कार्यपालक अभियंता
Executive Engineer

Special Conditions for cement

- 1.1. Cement required for the work shall be procured by the contractor.
- 1.2. The contractor shall procure, **43 grade** (conforming to IS: 8112) Ordinary Portland Cement/PPC as required in the work from reputed manufacturers of cement such as **ACC, UltraTech, Jaypee cement, Vikram, Shri Cement, J.K. Cement, Ambuja and century Cement** approved by Ministry of Industry, Government of India and holding license 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, or his registered trademarks if any and grade and type of cement as well as ISI marking. The packing of the cement bags shall be as per para No. 3.1.2.5 of CPWD specifications 2019 Vol - I for cement mortar, cement concrete, RCC works.
- 1.3. Storage space for cement shall be provided by the department.
- 1.4. Sample of cement arranged by the contractor shall be taken by the Engineer-in-charge and got tested in accordance with provisions of relevant BIS codes. In case test result indicate that the cement arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-charge to do so.
- 1.5. The contractor shall bear all charges and cost of testing of materials for all mandatory test required as per CPWD Specification 2019 Vol. I & II with upto date correction slips, for non-mandatory test of material if testing is required then only the testing charges shall be borne by the department if the material passes the tests conducted.
- 1.6. The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract.
- 1.7. The theoretical, consumption of cement shall be worked out as per procedure prescribed in clause 38 of the contract and shall be governed by conditions laid therein. No payment for excess consumption of cement will be allowed. However, for consumption lesser beyond permissible theoretical variation recovery shall be made in accordance with conditions of contract at **Schedule A to F (CPWD-7)** without prejudice to action for acceptance of work/item at reduced rate or rejection as the case may be.
- 1.8. For non-schedule items, the decision of the Superintending Engineer regarding theoretical quantity of cement, which should have been actually used, shall be final and binding on the contractor.
- 1.9. Cement brought to site and remaining unused after completion of work shall not be removed from site without written permission of the Engineer-in-charge.

कार्यपालक अभियंता
Executive Engineer

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

Name of the firm	Brand Name
(i) Asian Paint	Apcolite Premium gloss 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

(i) PremiumAcrylic Smooth Exterior with Silicone additives paint.

Name of the firm	Brand Name
(i) Asian Paint	Apex UltimaprotekDuralife
(ii) Berger Paints	Weather coat long life 10
(iii) Kansai Nerolac Paint Ltd	Excel Total
(iv) ICI Paints	Dulux Weather Shield
(v) Shalimar Paint	Weather Pro plus

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

Name of the firm	Brand Name
(i) Asian Paint	Tractor Acrylic Distemper
(ii) Berger Paints	Bison Acrylic Distemper
(iii) ICI Paints	Maxolite
(iv) Kansai Nerolac Paints	Nerolac Beauty Acrylic Distemper
(v) Shalimar Paint	No.1 Premium Acrylic Distemper

(c) Cement Primer (Interior)

Name of the firm	Brand Name
(i) ICI Paints	Dulex Cement Primer
(ii) Kansai Nerolac paint Ltd.	Nerolac Cement Primer
(iii) Asian Paints	Deco Cement Primer
(iv) Berger Paints	B.P cement Primer

(d) Acrylic Smooth Exterior Paint

Name of the firm	Brand Name
(i) Kansai Nerolac paint Ltd	Suraksha Plus Acrylic exterior emulsion
(ii) Berger Paints	Weathercoat Anti DusttKool
(iii) Shalimar paint	Xtra Tough
(iv) Asian Paints	Apex UltimaProtek

(e) Acrylic Emulsion paint Interior grade having VOC (Volatile organic Compound) less than 50gm/ltr

Name of the firm	Brand Name
(i) Asian	Royale Shyne luxury emulsion
(ii) Berger	Silk Glamor High Sheen
(iii) Nerolac	Impression ultra hd
(iv) ICI	Dulux life master
(v) Shalimar Paint	Superlac Advance

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

Name of the firm	Brand Name
(i) ICI	Dulux Velvet Touch
(ii) Nerolac	Impressions Kashmir
(iii) Asian Paint	Royal Aspira
(iv) Berger	Silk Breathe Easy
(v) Shalimar Paint	Superlac stay clean

(g) Cement Based Putty

Name of the firm	Brand Name
(i) Birla	Birla Putty
(ii) JK	JK Wall Putty
(iii) Asian	Asian Putty

1. 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.
2. 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.
3. 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 4 months old from the date of manufacturing will be rejected.
4. 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.

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.
6. **100% 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.
7. 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.

अनुमोदित सामग्री की सूची /LIST OF REFERED MAKE OF MATERIALS

(1) (FOR CIVIL WORKS)

Specification/brands names of materials (Refer materials, whichever are applicable for the scope of work) and finishes approved by the **Architect/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 **Architect/Engineer-in-Charge**, (See also conditions of contract)

Sl. No.	Materials	Approved make
1.	Poly-Sulphide Sealant	Pidilite, Tuffseal, Choksey / DURABUILD/Asian Paint
2.	Damp Proof Material	Impermo, Dura Build, Acco-Proof, Choksey, Asian Paint
3.	Structural Steel, Sections	Tata, Sail, RINL, Jindal
4.	TMT bars	TATA, SAIL, RINL, Jindal Steel & Power Ltd.
5.	OPC/PPC	ACC, ultratech, Jaypee cement, Vikram, Shri Cement, J.K. Cement, Ambuja and century Cement
6.	Admixture	Fosroc, , Choksey MC-Bauchemie, PAMR,BASF,Sika
7.	White Cement	J.K. White, Birla White
8.	Water Proofing Compound	Tap Crete, CICO, , AccoProof, Impermo Choksey Asian paint, makphalt , PAMR, BASF, Sika,
9.	Bitumen, Bituminous Compounds & primers	Indian Oil, Hindustan Petroleum
10.	Injection Grouting	Pidilite (Dr Fixit), Choksey, Asian Paint, Makphalt
11.	Non-metallic Surface Hardener	Sika Chapdur, Dr. Fixit Piditop, Fosroc Nitofloor Hardtop
12.	Locks/Latch	Godrej, Harrison, Dorset, Plaza , IPSA
13.	Laminates, Vineer	Formica, Merino, Greenlam, Kitlam, Century
14.	Wire Mesh	Banaraswala wire mesh , Lunia Exim, Universal wire product, Rainox wire mesh
15.	Prelaminated Particle Board	Action TESA, Bhutan Boards, Greenlam, Kitlam, Century
16.	Adhesive	Pidilite, Dunlop, CHOKSEY, Asian Paint
17.	Epoxy Mortar	Fosroc, Sika, BASF, CHOKSEY, Asian Paint
18.	Dash Fasteners	Hilti, Ficher, Canon, AFT, IPSA
19.	Flush Door Shutters (Decorative/ Non-Decorative)	Kitlam, Corbett, Century, Green Ply, Bhutan Tuff
20.	Board & Plywood	DURO, KITPLY, CENTURY, Green Ply, Bhutan Tuff
21.	Hydraulic Door Closer/Floor Spring	Hardwyn, Godrej, Dorset, IPSA, Harrison
22.	Wooden Door Fittings of Brushed Steel	B & R Dorma, Godrej, Dorset, IPSA
23.	S.S. Staircase Railing & other S.S. work	Jindal Stainless Steel Ltd., Hardwyn
24.	Fire Check Door, Fire Rated Shading Door, Fire Rated Rolling Shutters, Sliding Door, Folding Door, Hanger Door, High Speed Door, Sectional Doors	Promat, Kutty Door, ASES, Bhavani, Shakti Hormann Sukriti, Navair
25.	Fire Check Accessories Calcium Silicon Board	Promat , Sant gobin, Ramco Hilux, Everest
26.	Smoke Seal Strip	Imported Promat/Astro Flame
27.	Fire Door Closer ,Lock , Handle	Ingerboll Rand/Dorma, Hardwyn, Everest, IPSA
28.	Fire Panic Exit Device & Hardwall	Ingersoll Rand, Hardwyn, Everest, Dorma, IPSA

29.	Anodized Aluminium Hardware (Heavy Duty)	Hardima, Everite, Sigma (ISI Marked), IPSA
30.	Tempered Glass	Modi Float & Saint Gobain, ASahi, Glaverbel
31.	Polyester Powder Coating Shades	Nerolac, Berger, J & N
32.	Aluminium Sections	Jindal, Hindalco, Indalco
33.	Friction Stay Hinges	Earl-Bihari, Godrej, Hettich, Haffele, IPSA
34.	Nuts, Bolts and Screws, Steel	Kundan, Priya, Atul
35.	EPDM Gasket	Hanu/Anand
36.	Structural Silicone	Dow Corning/Wacker
37.	Weather Silicone	Dow Corning/Wacker, Dura Build, Choksey
38.	Adhesive Tape	Norton, 3M, A very Denisson
39.	Terrazzo Tiles (Precast)/Plain/Chequerred	NITCO, HINDUSTAN, MODERN, SUSHMA DALAL
40.	Glazed Ceramic Tiles	JOHNSON, SOMANY, KAJARIA, CERAMICS, NITCO, ASIAN, ORIENT BELL
41.	Cement Concrete Tiles/Hardonite Tiles	NITCO, NTC, HINDUSTAN, ORIENT BELL
42.	Vitrified Tiles (all types)	GRANITO, NAVIN DIAMOND, KAJARIA, JOHNSON (MARBONITE), ASIAN, RAK, ORIENT BELL
43.	Tile Adhesive	CICO, PIDLITE FERROUS, Choksey, MKY, Laticrete, PAMR
44.	Clay Tiles on Roof	KENZAI, JOHNSON
45.	Cement Concrete Interlocking Paver Block	NITCO-(ROCKARD), TUFTEK, K.K, ESS&ESS, MODERN, SUSHMA DALAL
46.	Acrylic Emulsion Paint	ASIAN, ICI, NEROLAC, BERGER
47.	Luxury Emulsion Paint	Burger-silk, Asian-Royal, ICI- Velvet, Nerolac-Impression
48.	Grass Paver	Unistone, Ultra, Shree, Supertile, Modern, SUSHMA DALALS
49.	Water-Proof Cement Paint	Kilicknixon, Durocem, Snowcem
50.	Synthetic Enamel Paint	Berger, Nerolac, Asian, ICI India Ltd.,
51.	Plastic Emulsion Paint	Berger, Nerolac, ICI India Ltd., Asian Paint
52.	Vitreous China Sanitary ware	Parryware, Hindware, CERA, Kohlar, Toto, Roca
53.	Fireclay Sinks & Drain Boards	Parry, Sunfire
54.	Stainless Steel Sinks	Nilkanth, AMC, Cobra, Jayana, CERA, KINGSTON
55.	C.P. Brass Fittings	Jaquar, Marc, Jonhson, CERA, KINGSTON, Kohlar, Roca
56.	Glass reinforced Concert Tile	Unistone, Terra forma, Ultra
57.	Auto closing hinge	Hettich, Godrej, EBCO, AVIS
58.	Soil, Waste & Vents Pipes & Fittings A) Centrifugal Cast Iron	Neco, RIF, RPMF
59.	LA (CI) Pipes	RIF, Neco, RPMF
60.	G.I. Pipes	Tata, Jindal – Hissar
61.	G.I. Fittings (Malleable Cast Iron)	Unik, ICS
62.	Gunmetal Valves	Leader, Sant, Zoloto
63.	Stone Ware Pipe & Gully Traps	Perfect, Parry
64.	R.C.C. Pipes-(NP-2)	Lakshmi, Sood & Sood, Jain & Co.
65.	MS Pipe	Kesoram, Electro Steel, TATA, Welspun
66.	C.I. Double Flanged Sluice Valves	Kirloskar, IVS, Burn, Zoloto, leader
67.	C.I. Double Flanged Non-Return Valves	Kirloskar, Zoloto , leader, cair & Normex

68.	C.I. Manholes Covers	B.C. RIF, RPMF
69.	UPVC Pipe	Supreme, Prince, Finolex
70.	Copper Tubes/Pipes	Rajco, Max Flow ABC
71.	Copper Fittings	Yorkshine, IBP, Bconex
72.	Ball Valves	Zoloto, IBP, Arco
73.	Butterfly Valves	Audco , L& T Valves, Zoloto, CIM, Kirloskar
74.	Unglazed Vitrified Tiles	Johnson – (Endura), Somany – (Dura Stone), Regency – (Tiles)
75.	Spider Fittings	Dorma, Sevox, IPSA
76.	Mineral Fibre False Ceiling	Armstrong, Gyptechor, Diamond Ceilings, RITE
77.	APP Sheet for water proofing	Roflex, STP, Dermabit, Water tite (Alex), Bitumat, Asian Paint, MAKPHALT
78.	PE-AL-PE PIPES & FITTINGS	Jindal, Supreme
79.	PVC/SINTHETIC WATER TANK	Sintex, Uniplast, Plasto
80.	Self-Closing Pillar Taps	Jaquar, KAISER VITALS, Kingston
81.	Hot Water Insulation	Glass Wool/ Mineral Wool
82.	Elastomeric Sleeve	Up Twiga / Rocklloyd
83.	Beveled Edge Mirror	Atul/Saint Gobain/Modi
84.	Rolling Shutters	Rama Rolling Shutters / Joyti Rolling Shutters / Anand Industries, AVIANS
85.	Wall Putty	Birla, J.K, Berger, Acro, Asian Paint
86.	Drapery Rod, Venetian Blinds, Roller blinds	Mac, Vista, DECK
87.	Ready Mixed Concrete	ACC, Unitech, Ultra Tech (Birla), Shri Ram Ready Mix Concrete Pvt.Ltd.
88.	PTMT Fittings	Prayag, Shakti
89.	HDPE PN-6, PE-80	Dure-line, Supreme, Vikas - “Tijaria” , MAKPHALT
90.	Electric Resistance Welded (ERW) Pipes Slotted/Blind for Tube well	Jindal, SAIL, TATA, Welspun
91.	Multilayer, Multiwall Polycarbonate sheet	Lexan brand of GE or equivalent
92.	Texture Decorative Paint	OIKOS/SKK/ARMOURCOAT
93.	Metal False Ceiling	Armstrong, Hunter Duglus, Dampa, Lindner, Diamond Ceilings, Durlum, Hi-Steel, RITE
94.	Mineral Fibre False Ceiling	Armstrong, Hunter Douglas, Diamond Ceilings, Hi-Steel
95.	G.I. and Aluminum Baffel and open ceiling system	Hi-Steel, Armstrong, Hunter, Douglas, RITE
96.	UPVC Window/Door	Rehau, Weka, Fenesta
97.	Laquered Glass	Modi, Saint Gobain, Asahi, Glaverbel
98.	Bamboo and wooden grill/ baffle, backer/ box metal special false ceiling	Armstrong, Hunter Donglas, SAS, Dampa, Lindner, RITE
99.	Hard wood Flooring	Juncker, Vitofloor, Parador, Pergo
100.	Wooden Laminate Flooring	Vista, Juncker, Vitofloor, Pergo
101.	Nylon Carpet Tiles/ Rolls	ForboFlotex, Euronics
102.	Calcium Silicate and Gypsum Board/ Tiles	Gyproc, Boral, Aerolite, Armstrong, Diamond, Romco-Hilnx, RITE
103.	G.I. / Silhoutte Ceiling suspension system	Armstrong, Hunter Donglas, Dampa, Diamond, Durlum, RITE

104.	Sodium Hypochlorite solution	Diversy, SDLE and Combigen
105.	Sanitization Machine in 5 litre tank Capacity	Euronics , Dolphy
106.	WPC/PVC Sheet Window/Door shutters & frame, Board, Jali	Rehau, Veka and Fenesta, Rajshri Plastiwood,
107.	Micro Concrete	FOSROC, ULTRATECH
108.	Carbon wrapping products for structural repair	HEXACURE, FOSROC, ASIAN PAINT, Dr. FIXIT
109.	Frosted self adhesive PVC film	3M, Garware, Godrej, Avery demission
110.	Acoustical Wall Panelling	Gyptechor, GYPTECH or Equivalent as per Relevant IS Codes, RITE

Note:- Contractor has to bring samples as per above preferred brands only and Engineer-in-Charge shall approve one sample out of the samples brought by the contractor. The contractor has to use material of that approved sample only. No claim in this regard shall be entertained.

मात्रा की अनुसूची / **SCHEDULE OF QUANTITY**

Name of Work:- Comprehensive Maintenance of Sankalp Bhawan, K.G. Marg, New Delhi during
2026-27 SH: (II) Annual Repair & Maintenance of Civil works.

Item 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 :				
(a)	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	15.00	Cum	7878.50	1,18,178.00
(b)	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)	3.00	Cum	6518.60	19,556.00
2	Providing and fixing sheet covering over expansion joints with iron screws as per design.				
(i)	Aluminium Fluted strips 3.15 mm thick.				
(a)	150 mm wide	5.00	Metre	567.60	2,838.00
3	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in:				
(a)	Cement Mortar 1:6 (1 cement : 6 coarse sand).	5.00	cum	6295.15	31,476.00
4	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
(b)	cement mortar 1:4 (1 cement : 4 coarse sand)	10.00	sqm	905.05	9,051.00
5	Providing and fixing plywood 4 mm thick, one side decorative veneer conforming to IS: 1328 (type-1), for plain lining / cladding with necessary screws, including priming coat on unexposed surface with :				
(a)	Decorative veneer facings of approved manufacture	100.00	Sqm	1946.25	1,94,625.00
6	Providing and fixing plain lining with necessary screws/nuts & bolts/ nails, including a coat of approved primer on one face, and fixed on wooden /steel frame work, complete as per direction of Engineer-in-charge (Frame work shall be paid for separately).				
(a)	12 mm thick commercial ply conforming to IS : 1328 BWR type	100.00	Sqm	1224.65	1,22,465.00
7	Melamine polishing on wood work (one or more coat).	100.00	sqm	138.10	13,810.00

8	Providing and fixing stainless steel (Grade 304) Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	100.00	kg	772.40	77,240.00
9	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.	1000.00	Kg	133.70	1,33,700.00
10	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand) at missing locations.				
(a)	Ordinary cement without any pigment	10.00	Sqm	1056.35	10,564.00
11	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	100.00	sqm	738.65	73,865.00
12	12 mm cement plaster of mix :				
(a)	1:6 (1 cement: 6 coarse sand).	100.00	Sqm	343.65	34,365.00
13	15 mm cement plaster on rough side of single or half brick wall of mix:				
(a)	1:6 (1 cement: 6 coarse sand).	50.00	Sqm	395.35	19,768.00
14	Removing dry or oil bound distemper , water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	1000.00	Sqm	25.15	25,150.00
15	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.	1200.00	Sqm	156.05	1,87,260.00
16	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.				

a)	One coat.	4000.00	Sqm	95.45	3,81,800.00
b)	Two coats.	1200.00	Sqm	142.80	1,71,360.00
17	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
a)	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre.	1200.00	Sqm	73.95	88,740.00
18	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :				
a)	One or more coats on old work.	500.00	Sqm	102.80	51,400.00
19	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade :				
a)	Old work (one or more coats applied @ 0.83 ltr/10 sqm).	1000.00	Sqm	88.55	88,550.00
20	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.	500.00	Sqm	338.25	1,69,125.00
21	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, rakingout joints and preparing and plastering the surface of the walls complete,including disposal of rubbish to the dumping ground, all complete as perdirection of Engineer-in-Charge.				
(a)	With cement mortar 1:4 (1cement: 4 coarse sand)	50.00	Sqm	560.50	28,025.00

22	Cleaning of terrace/loft water storage tank (inside surface area) 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 outer 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)	264000.00	Ltr	0.50	1,32,000.00
23	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:- (i) Tank shall be emptied of water by pumping & bottom shall be cleaned of slit and other deposits. (ii) 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 ultraviolet radiation etc. as per direction of Engineer-in-Charge. (Note: Inside bottom plan area of sump/tank shall be measured for payment purpose)	850.00	Sqm	84.85	72,123.00
24	Cleaning of choked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150 mm dia upto 300 mm	450.00	Metre	340.75	1,53,338.00
25	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.	150.00	Sqm	54.65	8,198.00
26	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	1.00	Cum	10117.60	10,118.00

27	Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.	5.00	Each	14999.15	74,996.00
28	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :				
(a)	White solid plastic seat with lid	20.00	each	684.85	13,697.00
29	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
(a)	15 mm nominal bore	10.00	Each	574.30	5,743.00
30	Providing and fixing C.P. Brass extension nipple (size 15 mm x 50 mm) of approved make and quality as per direction of Engineer-in-charge.	10.00	Each	74.80	748.00
31	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply and 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				
(a)	20 mm nominal dia Pipes	30.00	Metre	335.00	10,050.00
32	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	20.00	Sqm	1267.95	25,359.00
33	Providing and applying 2.5 mm thick road marking strips (retro- reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	120.00	Sqm	747.80	89,736.00

34	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8 mm having with water absorption less than 0.5% and conforming to IS:15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20 mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.	10.00	Sqm	2017.60	20,176.00
35	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, 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) :				
(i)	For fixed portion				
(a)	Powder coated aluminium (minimum thickness of powder coating 50 micron)	200.00	Kg	530.90	1,06,180.00
(ii)	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)				
(a)	Powder coated aluminium (minimum thickness of powder coating 50 micron)	100.00	Kg	634.45	63,445.00
36	Providing and fixing 12 mm thick prelaminated 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.				
(a)	Pre-laminated particle board with decorative lamination on both sides	50.00	Sqm	1115.40	55,770.00
37	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):				
(a)	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/ sqm)	25.00	Sqm	1505.25	37,631.00

38	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).	50.00	Kg	638.35	31,918.00
39	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	20.00	Each	1034.80	20,696.00
Total =					29,84,833.00
Modified estimated cost after using correction factor on DSR 2023 on a/c of GST @0.973 =					29,04,243.00
Add Cost Index @ 4.03% =					1,17,041.00
Total of DSR Items =					30,21,284.00
40	Providing and applying of Raffaello Madreperlato vapour permeable water based polished pearl Finish of Interior grade, apply one coat of quartz primer followed by two coats of Raffaello Base Coat and finishing with final coat of Raffaello Madreperlato special effect finish and cera protection coat as per approved Sample on smooth putty surface but excluding cost of putty base and scaffolding, applied by appropriate tools and specification of Oikos India or of any other equivalent brand as approved by Engineer-in-charge, all completes as per manufacturer's specification and the direction of Engineer-in-Charge.	300.00	sqm	1953.20	5,85,960.00

41	Repair of false ceiling at all height Supply of frame work at missing locations made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer-in-Charge but excluding the cost of painting with :				
(a)	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) : 2011 (Board with BIS certification marks) (Gypsum plain board to be utilised from existing site)	100.00	Sqm	297.40	29,740.00
42	Providing and Maintenance / repairing / replacement of existing defective / Non-Functional Electrical / Battery operated URINAL Sensors all complete as per direction of Engineer-in-charge.				
(a)	Replacement of control circuit along with facia of electrical / battery operated	20.00	Each	5625.70	1,12,514.00
(b)	Replacement Solenoid valve of electrical / battery operated	20.00	Each	2735.30	54,706.00
43	Deduct the cost of unserviceable dismantled automatic sensing system and soleniod valve received from the site, which shall be the property of the contractor including removal from the site and as per direction of Engineer-in-charge.	40.00	Each	-373.75	14,950.00
44	Annual maintenance for automatic urinal flushing system weekly maintenance for all items (like replacement of Cell etc.) / as and when required for complete proper functioning of automatic sensor as per the direction of Engineer-in-charge	58.00	Each	1201.55	69,690.00

45	Providing and fixing of Resin Bonded Rockwool conforming to IS: 8183, density 48 kg/ m ³ , 50 mm thick, for sound insulation of rooms to be filled in gap between ceiling and false ceiling level along walls with wire mesh of 12.5 mm x 24 gauge wire mesh and placed on existing false ceiling top as per direction of Engineer- in- charge.	100.00	sqm	656.95	65,695.00
46	Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/sqm(both side inclusive), consisting of floor and ceiling channel 75mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete.				
(a)	100mm overall thickness partition with 12.5 mm thick double skin tapered edged plain Gypsum plaster board conforming to IS: 2095: (part I): 2011 (Board with BIS certification marks)	100.00	sqm	1909.35	1,90,935.00
47	Disposal of malba / building rubbish i/c waste material of electric department, pieces of wood/furniture etc. by mechanical transport including loading and unloading for all leads and lifts upto any authorized municipal dumping ground complete as per the direction of Engineer-in-charge. (payment will be made on production of print out of original authorised Municipal Dumping ground tax receipts). and weighing slip of malba disposal in authorized municipal dumping ground. (The rate is inclusive of all the taxes i/c municipal dumping ground charges & nothing extra will be payable in this regard.)	50.00	MT	921.45	46,073.00
48	Lettering with spirit based paint of approved brand and manufacture.	1000.00	per letter per cm height	6.70	6,700.00

49	Providing and fixing polyester coated frosted sunglass flim of 3M make with laser cutting design as per direction of Engineer-in-charge.	100.00	Sqm	1856.60	1,85,660.00
50	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete:				
(i)	2nd class teak wood	0.20	Cum	320826.10	64,165.00
51	Providing and fixing Chrome Polish finished Hand Shower (Health Faucet) with 8mm dia i/c 1 mtr. long flexible SS tube & wall hook, shape, design and shade with necessary fittings etc. complete as per direction of Engineer-in-charge.	50.00	Each	1560.65	78,033.00
52	Providing and fixing 10 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double acting hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing	30.00	Sqm	3499.80	1,04,994.00
53	Providing, fixing and installing Motorised Security Lock with 5 computerised keys, access cards and remote unlock etc. complete of make Hawk Vision or equivalent as per direction of Engineer-in-charge.	2.00	Each	7059.80	14,120.00
54	Supply of aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete as per direction of Engineer-in-charge.	50.00	Each	905.55	45,278.00
55	Supply of Stainless Steel connection pipe 15 mm nominal bore with brass unions with Nozzle end for mixer taps or faucets, geysers and flush tanks:				
(a)	45 cm length	20.00	each	397.70	7,954.00
(b)	60 cm length	20.00	each	436.85	8,737.00
56	Supply of Stainless Steel connection pipe 15 mm nominal bore with brass unions for mixer taps or faucets, geysers and flush tanks :				
(a)	45 cm length	20.00	each	322.20	6,444.00
(b)	60 cm length	20.00	each	354.80	7,096.00
57	Supply of almirah lock of GODREJ / PLAZA/ DORSET / HARRISON or equivalent make of approved brand and manufacture, with steel screws, reversible dimple key etc. complete as per direction of Engineer-in-charge.	200.00	Each	470.70	94,140.00
58	Supply of pedestal lock of GODREJ / PLAZA/ DORSET/EBCO or equivalent make of approved brand and manufacture for drawer of cupboard with steel screws etc. complete as per direction of Engineer-in-charge.	350.00	Each	123.05	43,068.00
59	Supply of multipurpose lock of GODREJ / PLAZA/ DORSET/HARRISON or equivalent make of approved brand and manufacture for drawer of cupboard with steel screws etc. complete as per direction of Engineer-in-charge.	100.00	Each	329.95	32,995.00

60	Supply of powder coated telescopic drawer channels 350 mm long with necessary screws etc. complete as per directions of Engineer- in-charge.	100.00	Pair	375.80	37,580.00
61	Supply of bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.				
(a)	100 mm	25.00	Each	75.35	1,884.00
(b)	125 mm	50.00	Each	101.45	5,073.00
62	Supply of bright /matt finished Stainless Steel Tower Bolt of approved quality & make with necessary screws etc all complete.				
(a)	100 mm	200.00	Each	83.00	16,600.00
63	Supply of aluminium hanging floor door stopper , ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete as per direction of Engineer-in-charge.				
(a)	Twin rubber stopper	100.00	Each	57.75	5,775.00
64	Supply of toilet paper holder complete as per direction of Engineer-in-charge.				
(a)	C.P. Brass	20.00	Each	408.50	8,170.00
65	Supply of C.P. brass Pillar cock with swan neck (right) make of Cera (CAT No. F2002105) or equivalent make as per direction of Engineer-in-charge.	10.00	Each	1873.75	18,738.00
66	Supply of Stainless steel screws (each pkt containing 100 nos) complete as per direction of Engineer-in-charge.				
(a)	30 mm	10.00	pkt	329.95	3,300.00
67	Supply of ready mix polymer modified cement mortar of approved make of Ultratech readiplast RP-3 or equivalent in 40 kg bag packing complete as per direction of Engineer in Charge.	50.00	per 40kg bag	363.55	18,178.00
68	Supply of Glass Soap Dispenser Bottle make of Jaquar (CAT No; ACN-CHR 1135N) or equivalent with all the necessary screws, raw plug etc.complete as per direction of Engineer -in-Charge.	50.00	Each	1397.45	69,873.00
69	Supply of Towel Ring round with flange of chrome finish make of Jaquar (CAT No: CAN-CHR-1121BN) or equivalent with all the necessary screws, raw plug etc.complete as per direction of Engineer -in-Charge.	50.00	Each	1087.65	54,383.00
70	Supply of Single Tower Rail 600 mm long of chrome finish make of Jaquar (CAT No: ACN-CHR-1111SM) or equivalent with all the necessary screws, raw plug etc.complete as per direction of Engineer -in-Charge.	10.00	Each	1307.60	13,076.00

71	Providing services of personal with well dressed traffic attendant to regulate the vehicular traffic inside the permises of Sankalp Bhawan, with reflective jacket, cap, name badge, shoes, whistle, lathi / danda etc. complete as per direction of Engineer-in-charge. (One person from 9:00 AM to 5:30 PM will be treated as one job) In case of unathorised absence recovery will be made @ Rs.1200/- per day from the bill. (The rates are inclusive of GST). The attendance of all traffic attendant shall be maintaied through Biometric (Finger or Photo Both) machine installed by contractor on own cost at location decide by Engineer-in-charge for which nothing extra shall be paid.Full dress shall be provided to the workers with "C.P.W.D." logo on the back and front pocket on the shirt etc Complete as per the direction of Engineer-in-charge.	1056.00	Each Job	1158.60	12,23,482.00
72	Providing services of Enquiry clerk for registering complaints, carrying day to day work, management of complaints, assigning and monitoring the jobs performed related to the complaints, computer related works using MS office (Word, Excel, Power point), tabulation, typing, printing etc under the guidance of CPWD officers / staff, preparation diary of complaints / correspondance, maintenance of register w.r.t stores and other office works, for duty hours from 9:00 AM to 5:30 PM on all working days of the CPWD inquiry office. (One person from 9:00 AM to 5:30 PM will be treated as one job) In case of unathorised absence recovery will be made @ Rs.1300/- per day from the bill. (The rates are inclusive of GST). The attendance of all traffic attendant shall be maintaied through Biometric (Finger or Photo Both) machine installed by contractor on own cost at location decide by Engineer-in-charge for which nothing extra shall be paid.Full dress shall be provided to the workers with "C.P.W.D." logo on the back and front pocket on the shirt etc Complete as per the direction of Engineer-in-charge.	312.00	Each Job	1270.75	3,96,474.00
73	Providing services of Sewer Man for attending complaints such as, opening and cleaning of chicked sewer lines, drains, manhole, gully traps, road gully chamber, water closets, rain water pipes etc. complete as per derection and satisfaction of Engineer-in-charge. Any type of malba/waste received from cleaning will be dumped at dustbin in Sankalp Bhawan. (All work attended during 9:00 AM to 5:30 PM daily by one sewer man shall be treated as on job). In case of unathorised absence recovery will be made @Rs. 1200/- per day from the bill The attendance of sewerman shall be maintaied through Biometric (Finger or Photo Both) machine installed by contractor on own cost at location decide by Engineer-in-charge for which nothing extra shall be paid.Full dress shall be provided to the workers with "C.P.W.D." logo on the back and front pocket on the shirt etc Complete as per the direction of Engineer-in-charge.	312.00	Each Job	1164.85	3,63,433.00

74	Providing services of Carpenter for attending complaints such as, adjusting door closers, easing of doors / windows / ventilators, fixing of fittings and fixtures of door / windows / ventilators / furniture complete as per direction and satisfaction of Engineer-in-charge. (All work attended during 9:00 AM to 5:30 PM daily by one carpenter shall be treated as on job). In case of unauthorised absence recovery will be made @Rs. 1300/- per day from the bill. . The attendance of Carpenter shall be maintained through Biometric (Finger or Photo Both) machine installed by contractor on own cost at location decide by Engineer-in-charge for which nothing extra shall be paid. Full dress shall be provided to the workers with "C.P.W.D." logo on the back and front pocket on the shirt etc Complete as per the direction of Engineer-in-charge.	312.00	Each Job	1277.00	3,98,424.00
75	Providing services of Mason for attending complaints such as, repairing of floors, walls, plaster, ceiling, grading on roof, brick edging, making holes, repairs thereof, masonry jobs in laying of pipes, w.c. pans etc. complete as per direction of Engineer-in-charge. (All work attended during 9:00 AM to 5:30 PM daily by one mason shall be treated as on job). In case of unauthorised absence recovery will be made @Rs. 1300/- per day from the bill. The attendance of mason shall be maintained through Biometric (Finger or Photo Both) machine installed by contractor on own cost at location decide by Engineer-in-charge for which nothing extra shall be paid. Full dress shall be provided to the workers with "C.P.W.D." logo on the back and front pocket on the shirt etc Complete as per the direction of Engineer-in-charge.	312.00	Each Job	1277.00	3,98,424.00
76	Providing services of Helper or Beldar for carpenter, sewerman and mason complete as per direction of Engineer-in-charge. (All work attended during 9:00 AM to 5:30 PM daily by one beldar shall be treated as on job). In case of unauthorised absence recovery will be made @Rs. 1200/- per day from the bill. (The rates are inclusive of GST). The attendance of all helpers shall be maintained through Biometric (Finger or Photo Both) machine installed by contractor on own cost at location decided by Engineer-in-charge for which nothing extra shall be paid. Full dress shall be provided to the workers with "C.P.W.D." logo on the back and front pocket on the shirt etc Complete as per the direction of Engineer-in-charge.	1248.00	Each Job	1151.05	14,36,510.00

77	Providing services of Plumber for attending complaints such as replacement and removal of leakage of flush valve, pillar cocks, stop cocks, bib cocks, pipes, waste pipes, flush pipes, cisterns and other such fittings etc. complete as per direction and satisfaction of Engineer-in-charge. (All work attended during 9:00 AM to 5:30 PM daily by one plumber shall be treated as on job). In case of unauthorised absence recovery will be made @Rs. 1300/- per day from the bill. The attendance of plumbers shall be maintained through Biometric (Finger or Photo Both) machine installed by contractor on own cost at location decide by Engineer-in-charge for which nothing extra shall be paid. Full dress shall be provided to the workers with "C.P.W.D." logo on the back and front pocket on the shirt etc Complete as per the direction of Engineer-in-charge.	312.00	Each Job	1277.00	3,98,424.00
78	Providing services of experienced Data Entry Operator for carrying day to day working on Microsoft Office Suite and information retrieval, sorting, scrutinizing, tabulation, printing and finalizing the work under the guidance of officers / staff of the section. Preparation of monthly / quarterly / annual returns, statements or other related work assigned by the officers / staff of the Directorate and division office. (Working time 10:00AM to 6:00PM on all working days except Sundays & National Holidays) In case of unauthorised absence recovery will be made @Rs. 1500/- per day from the bill. . (The rates are inclusive of GST). D.E.O. can be called on holiday's in case of emergency of work & nothing extra shall be paid on this account. The attendance of all D.E.O. shall be maintained by the concerned office head under which D.E.O is posted and at the last working day of the month, office head will provide the certified attendance of D.E.O to the J.E-In-Charge based on which monthly salary will be prepared. Services of D.E.O for Each day will be treated as one job.	624.00	Each Job	1395.35	8,70,698.00
79	Providing services of Office boy / MTS for miscellaneous office work in the office of Division & Sub Division as per direction of Engineer-in-charge / the officers to whom they are attached. (Working time 9:00 AM to 5:30 PM on all working days except Sundays & National Holidays). In case of unauthorised absence recovery will be made @Rs. 1200/- per day from the bill. . (The rates are inclusive of GST). Office boy can be called on holiday's in case of emergency of work & nothing extra shall be paid on this account. The attendance of all Office Boy/MTS shall be maintained through Biometric (Finger or Photo Both) machine installed by contractor on own cost at location decide by Engineer-in-charge for which nothing extra shall be paid. Services of office boy/MTS for Each day will be treated as one job.	2184.00	Each Job	1144.80	25,00,243.00

80	Providing services of Dak Runner for carrying out day to day miscellaneous office work, diary and dispatch of letters related with various office work in the office of Sub Division as per direction of Engineer-in-charge / the officers to whom they are attached. (Working time 9:30 AM to 06:00 PM on all working days except Sundays & National Holidays). In case of unauthorised absence recovery will be made @Rs. 1300/- per day from the bill. . (The rates are inclusive of GST). Dak Runner can be called on holiday's in case of emergency of work & nothing extra shall be paid on this account. The attendance of Dak Runner shall be maintained through Biometric (Finger or Photo Both) machine installed by contractor on own cost at location decide by Engineer-in-charge for which nothing extra shall be paid. Services of Dak Runner for Each day will be treated as one job.	312.00	Each Job	1270.75	3,96,474.00
81	Providing services of experienced Data Entry Operator for sub division office for carrying day to day working on Microsoft Office Suite and information retrieval, sorting, scrutinizing, tabulation, printing and finalizing the work under the guidance of officers / staff of the section. Preparation of monthly / quarterly / annual returns, statements or other related work assigned by the officers / staff . (Working time 9:30 AM to 6:00 PM on all working days except Sundays & National Holidays) In case of unauthorised absence recovery will be made @Rs. 1500/- per day from the bill. . (The rates are inclusive of GST). D.E.O. can be called on holiday's in case of emergency of work & nothing extra shall be paid on this account. The attendance of all D.E.O. shall be maintained through Biometric (Finger or Photo Both) machine installed by contractor on own cost at location decide by Engineer-in-charge for which nothing extra shall be paid. Services of D.E.O for Each day will be treated as one job.	312.00	Each Job	1395.35	4,35,349.00
82	Extra hour for working beyond normal duty hours for various trade as per requirement and direction of Engineer-in-Charge				
(i)	Unskilled Worker (i.e., Helper, MTS, Sewerman)	150.00	Per Hour	143.10	21,465.00
(ii)	Semi-skilled Worker (i.e., Enquiry Clerk, Plumber))	75.00	Per Hour	158.85	11,914.00
(iii)	Skilled Worker (i.e., Data Entry Operator)	40.00	Per Hour	174.40	6,976.00
83	Credit for old dismantling unserviceable material: -				
a)	Aluminium Scrap	100.00	Kg	-125.00	- 12,500.00
b)	C.P. Fittings	20.00	Kg	-150.00	- 3,000.00
c)	M.S. fitting, steel scrap & G.I. Pipes of different dia etc.	100.00	Kg	-40.00	- 4,000.00
Total of Non Schedule Items =					1,09,31,167.00
Total Estimated Cost (A+B) =					1,39,52,451.00

**Executive Engineer
F-Division, CPWD**