

NOTICE INVITING E-TENDER

For

**ANNUAL REPAIR, MAINTENANCE AND OPERATION (AMRO) WORKS OF CIVIL,
ELECTRICAL AND MEP SERVICES ON LUMP SUM SERVICE CHARGES ON
DEPOSIT WORK BASIS FOR ESIS HOSPITAL AND STAFF QUARTERS AT
KANDIVALI, MUMBAI (PACKAGE-3)**

NIT No.: WAP/ENVT/ESIC-ARMO/ MAHARASHTRA /2024/PKG-3/01; dt.19.11.2024



**WAPCOS Limited
(A Government of India Undertaking)
76-C, Sector -18, Gurgaon- 122 015
Telephone: 0124-2397396
E-mail: esic@wapcos.co.in**

NIT No.: WAP/ENVT/ESIC-ARMO/ MAHARASHTRA /2024/PKG-3/01; dt.19.11.2024**NOTICE INVITING TENDER (NIT)****For****Annual Repair, Maintenance and Operation (AMRO) Works of Civil, Electrical and MEP Services on Lumpsum Service Charges on Deposit Work Basis for ESIS Hospital and Staff Quarters at Kandivali, Mumbai (Package-3)**

Employees State Insurance Corporation (ESIC), has awarded WAPCOS Limited, for providing the Services. WAPCOS Limited (A Govt. of India Undertaking), for and behalf of Regional Director Employees State Insurance Corporation (ESIC), Panchdeep Bhawan, Lower Parel-400 013, Mumbai, Online Submission of Technical document, Tender Fees, EMD etc. as detail in Tender Percentage Rate mode from experienced and competent bidders, meeting prescribed qualifying criteria as mentioned in tender document. The contract will be initially for a period of one year. However, the contract may be extended subsequently, on mutual consent for a period of not more than one year at a time (up to a maximum period of two years) on review of performance depending upon the requirements and administrative conveniences of WAPCOS/ESIC on same terms and conditions. Tender is based on percentage basis.

1.	Name of Work:	:	Annual Repair, Maintenance and Operation (AMRO) Works of Civil, Electrical and MEP Services on Lumpsum Service Charges on Deposit Work Basis for ESIS Hospital and Staff Quarters at Kandivali, Mumbai (Package-3)
2.	Location:		Mumbai, Maharashtra.
3.	Website for viewing tender/ Corrigendum/ Addendum	:	https://etenders.gov.in/eprocure/app
4.	Website for Procurement/ downloading and uploading Tender document/ Corrigendum/ Addendum		https://etenders.gov.in/eprocure/app
5.	Estimated Cost of Work	:	Rs. 4,03,23,106/- (excluding GST) (Rupees Four Crores Three Lakhs Twenty-Three Thousand One Hundred and Six Only)
6.	Tender submission fee	:	Rs.10,000/- (Non-refundable) in form of Demand Draft in favour of WAPCOS Limited payable at Gurgaon/New Delhi
7.	Amount of Earnest Money Deposit	:	Rs. 8,06,462/- (Eight Lakhs Six Thousand Four Hundred and Sixty-Two Only) 2% of the estimated cost (Refundable) in the form of RTGS/NEFT/D.D./Banker's cheque/FDR/Insurance

WAP/ENVT/ESIC-ARMO/MAHARASHTRA/2024/PKG-3/01

			<p>Surety Bond in favors of 'WAPCOS Limited' payable at Gurugram, Haryana For online through NEFT/RTGS. WAPCOS LIMITED, Indian Overseas Bank A/C NO. 193502000000075 IFSC: IOBA0001935 <i>The proof of online payment is to be attached with Technical Proposal.</i></p>
8.	Time Period	:	12 months or as per the requirement of ESIC/WAPCOS Limited the same shall be extend or decreased.
9.	Validity of Bid/Tender	:	90 Days
10.	Pre-bid Meeting	:	NA
11.	Last date & time of Procurement/ download of tender Document	:	<p>29.11.2024 up to 11:00 hours The bidder must officially procure/download the tender documents from the portal of CPPP Portal or WAPCOS before the last date and time of sale of tender document in order to bid.</p>
12.	Last date & time for submission of Technical & Financial Bid.	:	29.11.2024 up to 13:00 hours
13.	Offline Submission of Tender Fees, EMD etc. as detail in Tender	:	<p>29.11.2024 up to 13:00 hours in the office of Chief Executive Director (Envt & CM) WAPCOS Limited, Environment Division, 76-C, Sector -18, Gurgaon- 122 015</p>
14.	Opening of Technical Bid	:	30.11.2024 at 13:30 hours
15.	Opening of Financial Bid	:	Will be intimated to Eligible Bidders
16.	WAPCOS Contact information	:	<p>Chief Executive Director (ENVT & CM), WAPCOS Limited, Environment Division,76-C, Sector -18, Gurgaon- 122 015 Telephone: 0124-2397396; E-mail: esic@wapcos.co.in</p>
17	Deadline for Clarification by the Applicants	:	Queries to be sent through E-mail on esic@wapcos.co.in till 25.11.2024 upto 18:00 hours
18	Signing of Contract	:	The Successful tendered will have to execute an agreement in stamp paper worth 0.1% of contract agreed amount in prescribed form.

If the office of WAPCOS Limited happens to be closed on the last date and time mentioned for any of the event, the said event will take place on the next working day at the same time and venue.

The tender document has to be downloaded from above specified websites. Bidders are advised to visit above specified websites regularly for updates /Amendments/ Corrigendum, if any. The dates/Corrigendum/Addendum shall be followed up to submission of tender and it will be the part of tender. The full details about the work, specifications, Drawings, terms and conditions shall be available in the Tender Document. The tender document has to be submitted online on website

The purpose of this NIT is to provide interested parties with information to assist the preparation of their bid. While WAPCOS Limited has taken due care in the preparation of the information contained herein, and believe it to be complete and accurate, neither it nor any of its authorities or agencies nor any of its respective officers, employees, agents or advisors give any warranty or make any representations, expressed or implied as to the completeness or accuracy of the information contained in this document or any information which may be provided in association with it.

Further, WAPCOS Limited does not claim that the information is exhaustive. Respondents to this NIT are required to make their own inquiries/ surveys and will be required to confirm, in writing, that they have done so and they did not rely solely on the information in NIT. WAPCOS Limited is not responsible if no due diligence is performed by the bidders.

IMPORTANT POINTS

1.1 The bidder should be an Indian Registered Company under Companies Act 1956/ Proprietorship Company/ Partnership Company.

1.2 All Bidders are hereby cautioned that Bids containing any deviation or reservation as described in Clauses of “Instructions to Bidders” shall be considered as non-responsive and shall be summarily rejected.

1.3 WAPCOS Ltd. reserves the right to accept or reject any or all bids without assigning any reasons. No Bidder shall have any cause of action or claim against the WAPCOS Ltd. For rejection of his Bid and will not be bound to accept the lowest or any other tender.

1.4 No reimbursement of cost of any type or on any account will be paid to persons or entities submitting their Bid.

1.5 All information submitted in response to this NIT shall be the property of WAPCOS Limited and it shall be free to use the concept of the same at its will.

1.6 It is hereby declared that WAPCOS is committed to follow the principle of transparency, equity and competitiveness in public procurement. The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected. This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the WAPCOS.

1.7 At the first instance the Technical Bids will be evaluated by the Tender Evaluation Committee (TEC) constituted for the purpose by WAPCOS. At the second stage, the financial bids of only those bidders, who qualify in the Technical Bid will be opened by the Committee members. The bid opening committee after evaluation of the Financial bids, will give its specific recommendations regarding the lowest responsive bid, which is to be selected along with a comparative statement duly signed by the members of the bid opening committee.

For and on behalf of WAPCOS LIMITED

**Chief Executive Director (ENVT & CM),
WAPCOS Limited**

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VOLUME-I
TECHNICAL BID

SECTION-I

INSTRUCTION TO BIDDERS

- 1.1 The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.
More information useful for submitting online bids on the CPP Portal may be obtained at:
<https://etenders.gov.in/eprocure/app> .

REGISTRATION

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://etenders.gov.in/eprocure/app>) by clicking on the link “**Online bidder Enrollment**” on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e- mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Space” or “Other Important Documents” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

Note: *My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.*

SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise, the uploaded bid will be rejected.
- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard

BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

6) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.

7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.

8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.

9) Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

10) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

For any assistance regarding the Tender Document and/or term and conditions the bidders may contact Dr. Aman Sharma, Chief Executive Director (CM and Env) or Mr. Deepender Lamba (Sr. Engineer), WAPCOS Limited, Environment Division, Plot No-76-C, Sector-18, Gurugram: Phone Number: 0124-2397396, 0484-2413544; Email: esic@wapcos.co.in during office hours.

2.0 INSTRUCTION TO BIDDER

The purpose of these instructions to serve as a guide to Bidders for preparing offer for carrying out the project in all respect.

- a. Submission of a tender by a tenderer implies that the tenderer has read this notice and all other Tender Documents and has made himself aware of the scope, the specifications, conditions of contract, local conditions and other factors having bearings on the execution of the work.
- b. WAPCOS Limited desires that the bidders, suppliers, and Sub-contractors under the Project, observe the highest standard of ethics during the performance, procurement and execution of such contracts. In pursuance of this requirement, WAPCOS Limited:

Defines, for the purposes of this provision, the terms set forth below:

- i. **“Corrupt Practice”** means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party;
- ii. **“Fraudulent Practice”** means any act of submission of forged documentation, or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation, or to succeed in a competitive bidding process;
- iii. **“Coercive Practice”** means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
- iv. **“Collusive Practice”** means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party.

Will reject the award of Contract, even at a later stage, if it determines that the bidder recommended/ selected for award/awarded has, directly or through an agent, engaged in Corrupt, Fraudulent, Collusive, Or Coercive Practices incompetent for the Contract;

Will sanction a party or its successors, including declaring ineligible, either indefinitely or for a stated period of time, to participate in any further bidding/procurement proceedings under the Project, if it at any time determines that the party has, directly or through an agent, engaged in Corrupt, Fraudulent, Collusive, Or Coercive Practices in competing for, or in executing, the contract; and

The party may be required to sign an Integrity Pact, if required; and WAPCOS Limited will have the right to require the bidders, or its suppliers, contractors and consultants to permit WAPCOS Limited to inspect their accounts and records and other documents relating to the bid submission and contract performance and to have them audited by auditors appointed by WAPCOS Limited at the cost of the bidders.

The Bidder must obtain for himself on his own responsibility and at his own expenses all the information which may be necessary for the purpose of making a bid and for entering into a contract, must examine the Drawings, must inspect the sites of the work, acquaint himself with all local conditions, means of access to the work, nature of the work and all matters pertaining thereto. WAPCOS Limited will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

- c. The Contract shall be governed by each SECTION OF TENDER DOCUMENT i.e. instructions to bidders, selection & qualifying criteria, scope of works, General Conditions for Contract (GCC), Special Conditions for Contract (SCC), Annexures,

Forms, Technical Specification, Addendum / Clarification / Corrigendum etc. and all other Conditions mentioned in the tender documents.

- d. All Bidders are hereby explicitly informed that conditional offers or offers with deviations from the Conditions of Contract, the bids not meeting the minimum eligibility criteria, Technical Bids not accompanied with EMD and Tender Document Fees of requisite amount in acceptable format, Bids in altered/modified formats, or in deviation with any other requirements stipulated in the tender documents are liable to be rejected.
- e. The bidders shall not tamper or modify any part of the tender documents in any manner. In case in part of the bid is found to be tampered or modified at any stage, the bids are liable to be rejected, the contract is liable to be terminated and the full earnest deposit/retention money/performance guarantee will be forfeited and the bidder will be liable to be banned from doing any business with WAPCOS Limited.
- f. Incomplete Price bid shall be liable to be rejected, at the discretion of WAPCOS Limited. The total bid price shall cover the entire scope of works covered in the tender.

3.0 EARNEST MONEY DEPOSIT (EMD)

The Earnest Money Deposit **as mentioned in NIT and shall be submitted** in physical form in favour of WAPCOS Ltd payable at Gurgaon/New Delhi. The earnest money may be accepted only in the form of Demand Draft of a Scheduled Bank.

The EMD of unsuccessful tenderer(s) except lowest three will be refunded after finalization of tender process. WAPCOS Limited shall retain the Earnest Money deposit submitted by the successful tenderer until the Performance Guarantee is submitted. The successful Tenderer shall accept the LOI within 15 days from receipt of the same, failing which the EMD shall be forfeited and the award of work may be liable to be cancelled.

If any tenderer withdraws or make any changes in his offer already submitted before the expiry of the above validity period or any extension thereof without the written consent of the company, the EMD amount will be forfeited for such act of the tendered. WAPCOS Limited reserves the right of forfeiture of Earnest Money deposit (EMD) in case of the successful tenderer.

- ii. After opening of Tender, revokes his tender within the validity period or increases his earlier quoted rates.
- iii. Does not commence the work within the period as per LOI/Contract. In case the LOI/Contract is silent in this regard then within 15 days after award of contract.
- iv. EMD shall not carry any interest.

Failing in submission in required format, bid will be rejected.

4.0 COST OF BIDDING

The Bidder shall bear all costs associated with the preparation and submission of the Bid as well as costs associated for facilitating the evaluation. WAPCOS Limited shall in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

5.0 LANGUAGE OF BID

The Bid and all related correspondence and documents relating to the Project shall be in English language only. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate English translation which shall be certified by a qualified translator. Any material that is submitted in a language other than English and which is not accompanied by an accurate English translation will not be considered.

6.0 CURRENCY OF BID

Bid prices shall be quoted in Indian Rupees. Tender submitted by tenderer shall remain valid for acceptance as mentioned in NIT from the date set for submission of the tender. The tenderer shall not be entitled within the said period to revoke or cancel or vary the tender given or any item thereof, without the consent of WAPCOS Limited. In case tenderer revokes, cancels, or varies his tender in any manner without the consent of WAPCOS Limited, within this period, his earnest money will be forfeited.

7.0 ANNEXURES

The Bidder follow the guidelines as per “**Section of Annexures**” mentioned in tender document. WAPCOS Limited reserves the right to reject any or all the bids or to cancel the Tender, without assigning any reason(s) whatsoever.

- **The Bill of quantity of tender along with rate and amount is enclosed at Section Financial Proposal Volume-II**
- **The Performa for filling the percentage is given in Microsoft excel sheet. Bidder shall fill the percentage only upto two decimal place in soft format. The bidder will upload same filled percentage quote in soft Microsoft Excel copy during uploading of financial bid.**

For and on behalf of WAPCOS LIMITED

**(Sd/-)
CED (CM & Envt)
WAPCOS Limited**

SECTION-II **SELECTION AND QUALIFYING CRITERIA**

1.0 SITE VISIT

Intending Bidder(s) have to visit site to inspect and examine the site at his own cost and its surroundings and satisfy themselves before submitting their bids. 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(s) shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder(s) shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder(s) 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 and other factors having a bearing on the execution of the work.

2.0 QUALIFYING CRITERIA: TECHNICAL BID SUBMISSION

The intending bidders must read the terms & conditions of tender documents carefully. He should only submit his Technical Bid if he considers himself eligible and he is in possession of all the documents required.

The Technical Bid shall be uploaded with coloured scanned copies of following documents. All the documents must be Serial wise as stated below along with check list and clearly marked page no. on each page (MANDATORY).

Format of Check List

S.No.	Particular of Document	Yes	No	Page Nos.
a)	Authorization Letter to sign the Tender on bidder's original letter head or Power of attorney			
b)	Scanned copy of EMD as mentioned in NIT.			
c)	Scanned copy of Demand Draft for Tender Fee			
d)	Letter of Transmittal on bidder letter Head to submit Technical Bid (Form-A)			
e)	Yearly Turnover and Audited Balance Sheet for Last 5 (five) years ending on the financial year 2022-23. (Form-B)			
	<ul style="list-style-type: none"> The contractor should not have incurred any loss (profit after tax should be positive) in more than two years during last five years ending 2022-23 duly audited by the Chartered Accountant. Turnover: Average annual financial turnover should be at least 50% of the estimated cost of work during the last 3 consecutive financial years ending 2022-23. This should be duly audited by the Chartered Accountant doing Statutory Audit and mentioned UDIN Number on that certificate.. Net worth of the Company/firm as on 31st march of previous Financial Year, should be positive Audited Full Balance Sheet and Profit & loss Statement of Bidder for last 5 years should be verified by Chartered Accountant and mentioned UDIN 			

S.No.	Particular of Document	Yes	No	Page Nos.
f)	The bidder should have a Solvency of an Amount equal to 40% of the estimated cost after the date of publication of tender. <u>The Solvency Certificate shall be issued by the bank after the date of publishing of Tender document.</u> The solvency certificate should be marked to tender Authority of WAPCOS Limited along with Name of the project (Form C)			
g)	The contractor should have satisfactorily completed the works as mentioned below during the last seven years ending previous day of last date of submission of tender. Details should be enclosed (Form D)			
	One similar assignment costing not less than 80% of the estimated cost of work put to tender Or Two similar assignments of order value each not less than 50% of the estimated cost of work put to tender. Or Three similar assignments of order value each not less than 40% of the estimated cost of work put to tender			
<p>*Similar work refers to “Annual Repair and maintenance of residential and non-residential building (Civil and Electrical work) at ESI hospital/Dispensary (Please submit copy of PO/Work order and completion certificate issued by the client).</p> <p>Note:</p> <p>1. Completion certificates and work orders with bill of quantities should be enclosed which clearly indicates the name and nature of work, value of work and time period.</p> <p>2. TDS (26 AS) downloaded from the web matching with the experience certificate should be attached.</p> <p>3. All the eligible similar works executed and submitted by the bidders may be inspected by a committee which may consist of client or any other authority as decided by NIT approving authority.</p> <p>4. Experience certificate issued by the same management/ sister concern/ joint venture etc. are not acceptable.</p>				
h)	Name, Address, details of the Organization, Name(s) of the Owner/Partners/Promoters and Directors of the firm / company. (Form-E)			
i)	The Blacklisting policy of the company is available on the official website of WAPCOS Limited. The bidder have to mandatorily furnish an undertaking addressing the same to Engineer-in-charge in the form of certificate to			

S.No.	Particular of Document	Yes	No	Page Nos.
	abide the contents of Blacklisting Policy. The format of undertaking is provided. Any action in violation of the blacklisting policy or to the certificate furnished shall result in cancellation of tender at the stage before or after the award of work. Bidder should submit the declaration (Form-F)			
j)	Letter of understanding the project site on bidder letter Head (Form-G) .			
k)	'No Deviation Certificate' in prescribed format in Bidder's Letter Head (Form-H) .			
l)	Consent Letter to execute the Integrity Pact along with Rs. 100 stamp paper (Integrity agreement) (Form-I) .			
m)	Goods and Service Tax (GST): Bidders are advised to get themselves registered for GST in at different place, which are mandatory, as per Govt. of India notification regarding GST. Accordingly, bidder shall submit relevant documents if already registered. If not registered till date of submission of bid, bidder will give undertaking on bidder letter head stating that they will get registered in GST as per Govt. norms before submission of bills.			
n)	The bidder should be an Indian Registered Company under Companies Act 1956/ Proprietorship Company/Partnership Company/Limited company private or public or corporation. Joint Ventures/Consortia of firms are not accepted. Copy of Certificate of Incorporation/ Registration/ Partnership Deed or any other relevant document, as applicable, should be submitted along with a copy of address proof.			
p)	Copy of PAN Number, GST registration, Labor Registration, EPF & ESIC registration (copy of registration)			
q)	Each page of the all Volume of Tender document & Addendum/ Corrigendum shall be signed (use scanned signature) by the bidders submitting the Tender in token of his/their having acquainted himself/ themselves and accepted the entire tender documents including			

S.No.	Particular of Document	Yes	No	Page Nos.
	various conditions of contract. Any bid with any of the documents not so signed is liable to be rejected at the discretion of WAPCOS Limited. (Do Not Submit with the document of Offline Submission)			
r)	The experience in similar nature of work should be supported by certificates issued by the client's organization.			
s)	Escalation: All rates as per Estimated cost fixed for entire contract period as well as extended period for completion of the works. No escalation shall be applicable on this contract. As manpower or other works which are not part of this boq shall be carried out as per the requirement of ESIC/WAPCOS Limited			
t)	The Bidder should have valid A class contractor license in composite category or Civil/Electrical from Delhi or registration certificate (CPWD or any government department) and its own support office in Delhi. (Please submit documentary proof of the Establishment)			
u)	Undertaking regarding police Clearance of Employees posted at ESIC Hospitals			
v)	Firm must have valid ISO Certificate			
w)	Affidavit (Undertaking) towards Payment of Minimum Wages to the workers engaged as per applicable order CLC Daily wages and to enhance the rates, as and when it is revised.			
x)	Bidder shall submit the undertaking for understanding regarding that Defect Liability Period shall be one year.			
xi)	Undertaking regarding the Validity of the bid should be 120 days and after the award of work, if he (firm) is not taking over the work than his firm can be blacklisted for 2 years in participating of WAPCOS future tender.			
xii)	Organization Structure Chart			

S.No.	Particular of Document	Yes	No	Page Nos.
	<p>**The agency/contractor shall comply to the requirements, stipulations in the codes, standards and regulation Central Electricity authority/ Delhi Norms. (Measurements relating to Safety and Electric Supply) Regulations 2010 with all its amendments up to date.</p> <ul style="list-style-type: none"> • If the bidder fail to submit any of the above document than it is liable to be rejected at the discretion of WAPCOS Limited. • All uploaded tender document should be readable. In case the uploaded tender documents are found not readable even after zoom, the bidder will stand ineligible. <p>If a tendered 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..</p>			

Financial Bid should not be included in the Technical Bid. if found so, the bid shall be summarily rejected.

Technical Bids are to be submitted to determine that the bidder has a full comprehension of the tendered work. Where a bidder is technical submittal is found non - compliant with the requirement or work, it may be rejected. The Financial Bid will be opened only for the agencies whose technical bids are accepted by the competent authority.

3.0 OFFLINE SUBMISSIONS OF DOCUMENTS

The Bidder shall submit following Document offline

Proposal should be submitted in sealed envelope (Technical bid in on envelope) by 3:00 PM on 29.11.2024 at the following address:

Dr. Aman Sharma
Chief Executive Director (Env & CM)
WAPCOS Limited
Environment Division
76-C, Sector -18,
Gurgaon -122015

Email id: esic@wapcos.co.in

Signed Tender Documents along with addendum/corrigendum and Originals EMD, Tender submission fee in the form of Demand Draft in separate sealed envelopes clearly labelled as “EMD AND TENDER FEE” for the Work (Write Name of Work/Project as mentioned in NIT) along with Details of Bidders Address, Phone, E-mail on Envelope.)

NOTE: The offline submissions as mentioned above shall be submitted on WAPCOS address mentioned in NIT as per date & time mentioned in NIT otherwise bids will be rejected. Also, SFMS system will be used for receiving confirmation of Inward bank Guarantee. Indian Overseas Bank

NHB Gurgaon, Branch Code- 1935, IFSC Code- IOBA0001935, beneficiary- WAPCOS Limited

Note-2:

- 1. Financial Bid should not be included in the Technical Bid. if found so, the bid shall be summarily rejected.**
- 2. The offline submissions as mentioned above shall be submitted on WAPCOS address mentioned in NIT as per date & time mentioned in NIT otherwise bids will be rejected. Also, SFMS system will be used for receiving confirmation of Inward bank Guarantee. Indian Overseas Bank NHB Gurgaon, Branch Code- 1935, IFSC Code- IOBA0001935, beneficiary- WAPCOS Limited**
- 3. The proposal shall be in indelible ink and shall be signed by the Bidder or duly authorized person(s).**
- 4. Proposals received by facsimile shall be treated as defective, invalid and rejected.**
- 5. Only detailed proposals complete in all respect and in the forms indicated shall be treated as valid.**
- 6. No Bidder is allowed to modify, substitute or withdraw the Proposal after its submission**
- 7. Proposal shall be submitted in two parts (Technical & Financial). Each page of all parts should be page numbered and in conformance to the eligibility qualifications should be clearly indicated using an index page. The proposals should not contain any irrelevant or superfluous documents**
- 8. The bidder who has qualified the minimum qualifying criteria as outlined in NIT, shall be liable for financial opening.**
- 9. The bidder with lowest financial bid among those who passed the technical evaluation shall be liable for award of work.**
- 10. Evaluation Committee may, at its discretion, call for additional information from the Bidder(s). Such information has to be supplied within the given time frame, otherwise the Evaluation Committee shall make its own reasonable assumptions at the total risk and cost of Bidders and the proposal is likely to be rejected. Seeking clarifications cannot be treated as acceptance of the Proposal.**
- 11. After the public opening of Bids, information relating to the examination, clarification, evaluation and comparison of Bids and recommendations concerning the Award of Contract shall not be disclosed to Bidders or other persons not officially concerned with such process.**

3.1 CONTENTS OF FINANCIAL BID

The Financial Bid should be uploaded separately before last date & time of submission mentioned in the tender document.

The estimated cost mentioned in NIT is based on the rates of item of works in DSR and Non-DSR items on market rate. The quoted rate filled in Schedule of Quantities should include all associated costs with the project including any out of pocket / mobilization expenses, necessary lead or lift associated with and not specified **excluding GST and other taxes., TDS, if any applicable as per Govt. terms, shall be paid by the Contractor. Rates quoted in the price bid shall be exclusive of GST. GST shall be reimbursed on submission of GST submission proof.**

Deduction of TDS and other deductions on payment made to the contractor shall be applicable as per extant rules.

The payment will be made for actual measurements certified by Engineer in Charge at the accepted rates in the price schedule / Bill of Quantities (BoQ).

3.2 OPENING OF FINANCIAL BID

The financial bids of the approved eligible bidders who are technically qualified shall be opened at the notified date & time mentioned in NIT.

The company reserves the right to waive minor deviations if they do not materially affect the capability of the Tenderer to perform the contract.

3.3 AWARD CRITERIA

After closing of Technical & Financial Bid process, WAPCOS Ltd. will award, the contract to the bidder, whose tender has been determined to be substantially responsive, complete and in accordance with the tender document, and whose total evaluation price for the undertaking the project as detailed in the scope of work is the lowest. If the financial bids of lowest two bidders are equal, then the tender will be treated as cancelled and shall be re-tendered as per the WAPCOS rules.

For & on behalf of Tenderer

(Sd/-)

CED (CM & Envt.)

WAPCOS Limited

Signature of the authorized representative :

Name of the agency :

Name and designation :

Contact Details a) Communication address :

b) E-mail id :

c) Contact Nos. :

For & on behalf of Tenderer

SECTION- III
GENERAL CONDITIONS TO CONTRACT

4.1 Validity of offer

The offer shall be valid for a period of ninety days from the date of submission.

4.2 EMD and cost of Tender Document

Contractor/Agency shall submit an EMD and cost of Tender Document as specified in the Tender Notice by Demand Draft from any Scheduled Bank drawn in favour of WAPCOS LTD payable at Gurgaon/New Delhi. The EMD of unsuccessful tenderers will be re-funded.

4.3 Rates

The rates quoted shall include all the taxes (except GST), PF, ESI, etc. All the personnel employed by the Contractor should have PF account and ESI. Necessary proof shall be produced in the office of WAPCOS LTD. Statutory obligations like ESI, Provident Fund, Insurance, Medical expense/claim due to any accidents etc., of the personnel employed by the Contractor/Agency shall be met by the Contractor, and WAPCOS LTD./ESIC shall not be held liable nor responsible for any such defaults. TDS shall be deducted from the Contractor's bills as per rules. **The rates shall be firm for the period from the date of the award of contract till the completion of the works as per agreement and no escalation whatsoever will be allowed during this period.**

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 tenderer, rate of such item shall be treated as “0” (ZERO).

4.4 Agreement

The selected agency will have to sign an agreement with WAPCOS Limited as per the format specified in Annexure B.

The agreement is non-exclusive in nature. The agreement shall not restrict WAPCOS/ESIC from contracting for identical or similar services from any other person/party.

4.5 Duration of agreement: This agreement shall initially be valid for a period of eleven month the contract from the issuing of letter of award which may be extended for an additional period unless as provided herein revoked earlier for whatever reasons. If at any stage during the tenure of this agreement, it comes to the notice of WAPCOS, directly or through some other complaint, that the agency had misrepresented the facts or submitted any false information or hidden any information, which could have affected the signing of this agreement with the agency, this agreement shall stand terminated immediately upon intimation to the agency. However, the agency shall continue to discharge their responsibilities on the same terms and conditions till the next agency takes over.

4.6 Restrictions on Transfer agreement: The agency shall not assign or transfer its right in any manner whatsoever under this agreement to a third party or enter into any agreement for sub-contracting and/or partnership relating to any subject matter of the agreement to any third party either in whole or in any part i.e. no sub-contracting/partnership/third party shall be created without

the prior written consent of WAPCOS/ESIC.

4.7 Liability: Except as provided in this Agreement, hereinbefore, WAPCOS shall not be liable to the Agency by virtue of termination of this agreement for any reason whatsoever for any loss or profit or on account for any expenditure, investment, leases, capital improvements or any other commitments made by the other party in connection with their business made in reliance upon or by virtue of this Agreement.

4.8 Market Rates : Shall be determined as per various sub-clauses under the clause 6.0 shall be on the basis of Prevailing rates of Material excluding GST (unless mentioned otherwise), Relevant Labour authority rate for Labour (CLC Wages), market rates of T&P etc. plus 15% or approved percentage from ESIC towards Contractors' Profits and Overheads.

The following factors may be considered in the justification of rates on which contractor profit and overhead shall not be applicable:

- Building and other construction workers as applicable in the state of work place.
- EPF (Employer Contribution) component, as per EPF act on the portion of labor's wages.
- GST on works contract.

4.9 Suspension, Revocation or Termination of agreement

WAPCOS on behalf of ESIC reserves the right to suspend the operation of this agreement, at any time, due to change in its own license conditions or upon directions from the competent government authorities. In such a situation, WAPCOS/ESIC shall not be responsible for any damage or loss caused or arisen out of aforesaid action. Further, the suspension of the agreement will not be a cause or ground for extension of the period of the agreement and suspension period will be taken as period spent. During this period, no charges shall be payable by WAPCOS/ESIC.

WAPCOS may, without prejudice to any other remedy available for the breach of any conditions of agreement, by a written notice of fifteen days issued to the agency at its registered office, terminate / or suspend this agreement under any of the following circumstances:

- a) The agency failing to perform any obligation(s) under the agreement.
- b) The agency failing to rectify, within the time prescribed, any defect as may be pointed out by WAPCOS/ESIC.
- c) Non-adherence to undertakings which ESIC has committed to consumer.
- d) The agency going into liquidation or ordered to be wound up by competent authority.

If the agency is wound up or goes into liquidation, it shall immediately (and not more than a week) inform about occurrence of such event to WAPCOS in writing. In that case, the written notice period can be reduced by WAPCOS as deemed fit under the circumstances. WAPCOS may also either decide to issue a termination notice or to continue the agreement by suitably modifying the conditions, as it feels fit under the circumstances.

It shall be the responsibility of the agency to maintain the agreed quality of service, even during the period when the notice for surrender/termination of agreement is pending and if the quality of performance is not maintained, during the said notice period, it shall be treated as material breach liable for termination at risk and consequent of agency and Security Deposit shall be forfeited, without any further notice.

Whenever breach of non-fulfillment of agreement conditions may come to the notice of WAPCOS through complaints or as a result of the regular monitoring, wherever considered appropriate WAPCOS may conduct an inquiry either suo-moto or on complaint to determine whether there has

been any breach in compliance of the terms and conditions of the agreement by the agency or not. The agency shall extend all reasonable facilities and shall Endeavour to remove the hindrance of every type upon such inquiry.

4.10 Actions pursuant to Termination of Agreement: Notwithstanding any other rights and remedies provided elsewhere in the agreement, upon termination of this agreement.

- a) The Agency shall not represent the WAPCOS/ESIC in any of its dealings.
- b) The Agency shall not intentionally or otherwise commit any act(s) as would keep a third party to believe that it is still the WAPCOS/ESIC's service provider.
- c) The expiration or termination of the Agreement for any reason whatsoever shall not affect any obligation of either Party having accrued under the Agreement prior to the expiration or termination of the Agreement and such expiration or termination shall be without prejudice to any liabilities of either Party to the other Party existing at the date of expiration or termination of the Agreement.

4.11 Security Deposit

The contractor whose tender is accepted will also be required to furnish by way of Security Deposit for the fulfillment of his contract, an amount equal to 2.5% of the tendered value of the work. The Security deposit will be collected by deductions from the running bills as well as final bill of the contractor at the rates mentioned above. WAPCOS Ltd. shall deduct Security Deposit of 2.5%. The Security Deposit will be refunded after satisfactory completion of contract period. Security Deposit shall be released after satisfactory completion of Defect liability period

4.12 PERFORMANCE GUARANTEE

- i. **The contractor shall submit an irrevocable Performance Guarantee of 3% (Three percent) of the tendered amount** (This guarantee shall be in banker's cheque of any scheduled bank/DD of any scheduled bank/pay order of any scheduled bank (in case bank guarantee is less than Rs.10000/-) or government securities or fixed deposit receipts or bank guarantee of any scheduled bank or in accordance with the prescribed form) in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within 7 days period from the date of issue of letter of acceptance. This period can be further extended by the Engineer-in-Charge up to a maximum period of 7 days on written request of the contractor stating the reason for delays in procuring the Performance Guarantee, to the satisfaction of the Engineer-in Charge. However, in case last day of submission of PG happens to be a bank holiday the last day of submission shall be the next working day.

The Performance Guarantee shall be valid up to the stipulated date of completion plus 60 days beyond that and claim period should be one year after the date of validity. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for the work by the competent authority, the performance guarantee shall be returned to the contractor, without any interest. However, in case of contracts involving maintenance of building and services/any other work, then 50% of Performance Guarantee shall be retained as Security Deposit. The same shall be returned year wise proportionately.

- i. The Engineer-in-Charge shall not make a claim under the performance guarantee except for amounts to which WAPCOS is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:
 - a. Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee.
 - b. Failure by the contractor to pay WAPCOS any amount due, either as agreed by the contractor or determined under any of the Clauses/Conditions of the agreement, within 30 days of the service of notice to this effect by Engineer-in-Charge.
- ii. In the event of the contract being determined or rescinded under provision of any of the Clause/Condition of the agreement, the performance guarantee shall stand forfeited in full.
- iii. The Performance Guarantee shall be returned to the Contractor soon after the completion of works and issuance of the completion certificate.

4.13 RECOVERY OF SECURITY DEPOSIT

The person/persons whose tender(s) may be accepted (hereinafter called the contractor) shall permit WAPCOS at the time of making any payment to him for work done under the contract to deduct a sum at the rate of 2.5% of the gross amount of each running and final bill till the sum deducted will amount to security deposit of 2.5% of the tendered value of the work. Such deductions will be made and held by WAPCOS by way of Security Deposit unless he/they has/have deposited the amount of Security at the rate mentioned above in the form of Government Securities or fixed deposit receipts. In case a fixed deposit receipt of any Bank is furnished by the contractor to the WAPCOS as part of the security deposit and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the WAPCOS to make good the deficit.

All compensations or the other sums of money payable by the contractor under the terms of this contract may be deducted from, or paid by the sale of a sufficient part of his security deposit or from the interest arising therefrom, or from any sums which may be due to or may become due to the contractor by WAPCOS on any account whatsoever and in the event of his Security Deposit being reduced by reason of any such deductions or sale as aforesaid, the contractor shall within 10 days make good in fixed deposit receipt tendered by the State Bank of India or by Scheduled Banks endorsed in favour of WAPCOS LIMITED, any sum or sums which may have been deducted from, or raised by sale of his security deposit or any part thereof. The security deposit shall be collected from the running bills and the final bill of the contractor at the rates mentioned above.

The security deposit as deducted above can be released against bank guarantee issued by a scheduled bank, on its accumulations to a minimum of Rs. 5 lac subject to the condition that amount of such bank guarantee, except last one, shall not be less than Rs. 5 lac. Provided further that the validity of bank guarantee including the one given against the earnest money shall be in conformity with provisions contained in clause which shall be extended from time to time depending upon extension of contract granted under provisions of clause

The Security Deposit shall be released after successful completion of Defect Liability Period. The Defect Liability Period shall be applicable for 1 year from the date of completion of work.

4.14 Payment

The Associate/Sub-consultant/ Sub-Contractor acknowledge that under the present Contract/Agreement/Work Order/Arrangement, WAPCOS is only working as intermediary between (Name of client) being Principle Employer/Client and Associate/Sub-consultant/Sub Contractor. Thus the Association/Sub consultant/Sub Contractor unconditionally acknowledges that the payments under the present Contract/Agreement /Work order/Arrangement shall be made proportionately by WAPCOS only on back to back basis i.e., after 21 days subject to receipt of payment from (Name of Client) being Principal Employer/Client. The Associate/Sub-Consultant/Sub Contractor also unconditionally agree that in the event the payment or part thereof , under the present Contract/Agreement/Work Order/Arrangement is not received from (Name of client) (Principal Employer/Client), then WAPCOS &/or any of its Employer/Office shall not be responsible to pay any amount to Associate/Sub-Consultant/Sub-Contractor. The said condition shall supersede any and all other conditions of Contract/Agreement/Work Order/Arrangement between the parties.

The Contractor / Agency shall submit the bills at the end of every month and payment will be made within 30 (thirty) days of receipt of the bill subject to verification of attendance. All the applicable taxes and duties will be deducted from each bill. Along with Bill, Contractor will submit the consumable item sheet duly verified by engineer In charge WAPCOS/ESIC/Satisfactory person. Payment terms will be same as per Work Order received by WAPCOS from ESIC. The copy of the same is attached in NIT.

- Payment to labour shall be dispersed by the contractor by the 7th of every month positively.
- Payment of contractor shall be given by WAPCOS on the basis of proof submission by the contractor for the disbursement of payment to labour minimum wages as per CLC,ESI,EPF etc employed by him.
- All emergent Repair and Maintenance related complaints shall be attained to within 48 hours with concern of WAPCOS/ESIC, failing which a recovery of rs 1000.00 per event per day shall be made from the subsequent payments to the agency and old material / items replaced with new one shall be deposit to ESIC with care and returned certificate should be submit along with subsequent bill.
- In the event of failure to attened the compliant within 03 days ,the authorized officer of WAPCOS will get the work done at the risk and cost of the agency and expenditure incurred will be deducted from the subsequent payment of the agency .
- On submission of consumable item sheet duly verified by engineer In charge WAPCOS/ESIC/Satisfacotry person.
- **Contractor will submit monthly bills along with ESI, EPF Proof of manpower and other proofs like diesel register, complaint registers etc.**

4.15 Penalty for error/variation: In case any error or variation fraudulent activites of manpower ,illegal,theft than what was intended for is detected in the work executed by the Agency and such error or variation is the result of negligence or lack of due diligence on the part of the Agency, the consequential damages thereof shall be quantified by WAPCOS/ESIC in a reasonable manner and recovered from the Agency from payments due to them by way of penalty, 0.5 to 1% per week subjected to a maximum of 10% (ten percent) of the fee for the contract value. However, if the

Agency submits justification for the variation to the satisfaction of WAPCOS/ESIC, then the penalty shall not be imposed.

4.16 Conveyance

The Contractor shall provide vehicle for site visit of WAPCOS/ESIC personnel as and when required.

4.17 Insurance for Contractor's personnel

The Contractor/Agency shall maintain accident insurance (Group) policy for all the personnel employed by him in the Zone. Necessary proof of this shall be produced to WAPCOS LTD./ESIC authorities for verification. Statutory obligations like payment of PF, ESI of the personnel employed shall also be the responsibility of the Contractor/Agency and WAPCOS LTD./ESIC shall not be held responsible for any failure by the Agency on these counts.

4.18 Removal of an employee from duties

The service provided by each person engaged by the Contractor/Agency shall be satisfactory to WAPCOS LTD./ESIC. If WAPCOS LTD./ESIC intimates the Contractor/Agency regarding misconduct, incapability, delay in discharging duties or non-performance of any personnel employed by the Contractor, he shall be removed from his duties in the ARM work and the Contractor/ Agency shall provide suitable substitutes immediately.

4.19 Assignment

The rights and obligations arising out of this agreement shall not be assigned or transferred to a third party without prior written consent of either party.

4.20 Completion of tenure

On completion of the tenure of the agreement, if not renewed, the Contractor/Agency shall handover all the materials belongings to ESIC to WAPCOS LTD. Contractor shall remove all materials belonging to him including the workforce without any delay. However, the Contractor shall continue to discharge their responsibilities till the next Contractor takes over the duty and the Contractor shall train the staff of the new Contractor.

4.21 Force Majeure

If performance by either party of its duties and obligation under this agreement is prevented or delayed by circumstances of force majeure including, but not limited to fire, flood, earthquakes, strike, war, riots, insurrection, any action undertaken or restriction imposed by authority of any Government agency of court, shortage of equipment or raw materials or any other act beyond its reasonable control, the time within which the affected party must perform shall be delayed for a period under such circumstances to a maximum of 120 days during which the parties shall use alternate methods, but after which period either party shall have the right to terminate the agreement. Determination of this agreement shall not relieve either party from the payment of the sum or performance of other duties and obligations, which may be owing to the other, as a result of the operation of this agreement prior to such termination.

4.22 Termination

Notwithstanding anything contained herein, either party to this agreement shall have the right to terminate this contract by giving the other party 30 days notice in writing. If the service of the Contractor/Agency is found to be not satisfactory, the contract will be terminated with one month notice and the Contractor/Agency will not be eligible for any compensation on this account.

4.23 Settlement of Disputes

Any dispute, controversy or claims arising out of or relating to this agreement or the breach, termination or invalidity thereof, shall be settled through dispute resolution mechanism:

- a) Firstly, the aggrieved party shall write a letter to the other party detailing its grievances and calling upon the other party to amicably resolve the dispute by convening a joint meeting. Accordingly, the parties as per their convenience shall jointly convene the said meetings, wherein minutes of the said meetings shall be prepared and countersigned by the all the parties. It is mandatory to prepare minutes of meetings and to be countersigned by all the parties, irrespective of the outcome of the said meetings.
- b) In the event the parties are unable to reach on any settlement in the said meetings, then the aggrieved party shall mandatory resort to pre-litigation mediation mechanism with the Delhi High Court Mediation Cell, New Delhi.
- c) It is only upon failure of the pre-litigation mediation mechanism with Delhi High Court Mediation Cell, then the aggrieved party shall resort to resolution of disputes through arbitration of a Sole Arbitrator. The appointing authority of Sole Arbitrator is CMD, WAPCOS Limited, to which neither of the parties have any objection nor they shall ever object.
- d) Subject to the parties agreeing otherwise, the arbitration proceedings shall be conducted in accordance with the provisions of the Indian Arbitration and Conciliation Act, 1996 (amended as on date)
- e) It is also acknowledged and accepted that WAPCOS is only working as Intermediary between the Associate/Sub-Consultant/Sub-Contractor and the Principal Employer/Client, thus in the event , any dispute arises under the present agreement and referred to arbitration for adjudication, then subject to corresponding clause in the contract/agreement/work order/agreement between Principal Employer/Client & WAPCOS, Principal Employer/Client shall also be made party to the said arbitration proceedings. Also, the award including costs if any passed against WAPCOS and costs incurred in the proceedings shall be the sole responsibility of Principal Employer/Client. The said clause if found inapplicable, even then the other terms of the arbitration clause shall survive and shall be acted upon.
- f) The place/seat of arbitration shall be Delhi and any award whether interim or final, shall be made and shall be deemed for all purposes between the parties to be made, in Delhi. The arbitral procedure shall be conducted in English language and any award or awards shall be rendered in English. The procedural law of the arbitration shall be Indian law. The award of the arbitrator shall be final and conclusive and binding upon the Parties.
- g) The contract and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims) shall be governed by and constructed in accordance with the laws of India and the Parties submit to sole & exclusive jurisdiction of courts at Delhi.

4.24 Compensation Clause

If the Agency is engaged to execute any project based on a separate work order, the WAPCOS shall be entitled to include a clause for liquidated damages as under: Should the agency fails to deliver its responsibilities within the period prescribed and agreed, WAPCOS without prejudice to other remedies available to it, shall be entitled to recover liquidated damages for breach of contract without any necessity to prove the same, a sum equivalent to 0.5% of the value of the work for each week of delay or part thereof for a period up to 10 (Ten) weeks, and thereafter at the rate of 0.7% of the value of the delayed commissioning for each week of delay or part thereof for another 10 weeks of delay. The Agency should acknowledge that the said amount represents reasonable compensation as it is difficult to prove the quantum of damages that will be suffered by WAPCOS/ESIC. The total value of the liquidated damages as per above shall be limited to a maximum of 10% (Tent percent) i.e. LD shall be levied up to 20 weeks only. However, in case of delay due to reasons beyond the control of the Agency, suitable extension of time shall be granted.

Without prejudice to its rights and any other remedy, WAPCOS may en-cash SD in case of any breach of terms and conditions of the agreement or in case of business loss suffered by WAPCOS/ESIC due to failure of service on the part of the agency.

4.25 Confidentiality of Information & Intellectual Property:

Subject to conditions contained in this Agreement, the agency shall take all necessary steps to safeguard the privacy and confidentiality of any information about WAPCOS/ESIC consumers from whom it has acquired such information by virtue of the service provided and shall use its best endeavors to secure that:

The agency shall take necessary steps to ensure that the agency itself and any person(s) acting on its behalf observe confidentiality of client/consumer information.

The agency shall, prior to commencement of this agreement, confirm in writing to WAPCOS/ESIC that the agency has taken all necessary steps to ensure that it and its employees shall observe confidentiality of customer information.

This clause shall survive the termination or expiry of this Agreement.

Neither party will use the other party's name nor marks, refer to or identify the other party in any advertising or publicity releases or promotional or marketing correspondence to others without such other party's written approval.

4.26 Indemnification

The agency agrees to protect, defend, indemnify and hold harmless WAPCOS/ESIC and its employees, officers, directors, agents or representatives from and against any and all liabilities, damages, fines, penalties and costs (including legal costs and disbursements) arising from or relating to:

Any breach of the terms and conditions in this agreement by the agency.

The agency shall be fully responsible for the employment and payment of wages to its employees and shall fully comply with all laws, rules, regulations, notifications, directions

orders etc. of the Govt. whether Central, State, Local or Municipal relating to such employment, payment of wages etc. and all others matter connected therewith and hereby indemnifies and agrees to continue indemnifying WAPCOS/ESIC in this regard.

The employees of the Agency shall have no right for employment either with the Client during the pendency of the agreement or after, or with the Agency. The personnel employed by the Agency shall at all times be employees of the Agency and all statutory dues to and obligations and liabilities in respect of such employees shall be promptly paid and discharged by it. Notwithstanding their responsibility to comply with any directions or instructions given by the Client, the personnel employed by the Agency will not, for any purposes whatsoever, be treated or deemed to be employees of Client or have any claim or right whatsoever for employment with the Client and the Client will have no obligations or liabilities whatsoever in relation to any of them or in respect of anything done or omitted to be done by any of them

This clause shall survive the termination or expiry of this Agreement.

4.27 Relationship: Each party understands that it is an independently owned business entity and this Agreement does not make it, its employees, associates or agents as employees, agents or legal representatives of the other party for any purpose whatsoever. Neither party has express or implied right or authority to assume or to undertake any obligation in respect of or on behalf of or in the name of the Other Party or to bind the Other Party in any manner. In case, any party, its employees, associates or agents hold out as employees, agents, or legal representatives of the other party, the former party shall forthwith upon demand make good any/all loss, cost, damage including consequential loss, suffered by the other party on this account. However, on a written consent from the WAPCOS/ESIC, the agency may represent WAPCOS/ESIC.

4.28 Jurisdiction

Any dispute connected with this contract shall fall within the jurisdiction of Courts at Delhi.

4.30 CARRYING OUT PART WORK AT RISK & COST OF CONTRACTOR

If contractor:

- (i) At any time makes default during currency of work or does not execute any part of the work with due diligence and continues to do so even after a notice in writing of 7 days in this respect from the Engineer-in-Charge; or
- (ii) Commits default in complying with any of the terms and conditions of the contract and does not remedy it or takes effective steps to remedy it within 7 days even after a notice in writing is given in that behalf by the Engineer-in-Charge; or

Fails to complete the work(s) or items of work with individual dates of completion, on or before the date(s) so determined, and does not complete them within the period specified in the notice given in writing in that behalf by the Engineer-in-Charge. The Engineer- in-Charge without invoking action under clause 3 may, without prejudice to any other right or remedy against the contractor which have either accrued or accrue thereafter to WAPCOS, by a notice in writing to take the part work / part incomplete work of any item(s) out of his hands and shall have powers to:

- (a) Take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or
- (b) Carry out the part work / part incomplete work of any item(s) by any means at the risk and cost of the contractor.

The Engineer-in-Charge shall determine the amount, if any, is recoverable from the contractor for completion of the part work/ part incomplete work of any item(s) taken out of his hands and execute at the risk and cost of the contractor, the liability of contractor on account of loss or damage suffered by WAPCOS because of action under this clause shall not exceed 10% of the Contract value of the work.

In determining the amount, credit shall be given to the contractor with the value of work done in all respect in the same manner and at the same rate as if it had been carried out by the original contractor under the terms of his contract, the value of contractor's materials taken over and incorporated in the work and use of plant and machinery belonging to the contractor. The certificate of the Engineer-in-Charge as to the value of work done shall be final and conclusive against the contractor provided always that action under this clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the WAPCOS are less than the amount payable to the contractor at his agreement rates, the difference shall not be payable to the contractor.

Any excess expenditure incurred or to be incurred by WAPCOS in completing the part work/ part incomplete work of any item(s) or the excess loss of damages suffered or may be suffered by WAPCOS as aforesaid after allowing such credit shall without prejudice to any other right or remedy available to WAPCOS in law or per as agreement be recovered from any money due to the contractor on any account, and if such money is insufficient, the contractor shall be called upon in writing and shall be liable to pay the same within 30 days.

If the contractor fails to pay the required sum within the aforesaid period of 30 days, the Engineer-in-Charge shall have the right to sell any or all of the contractors' unused materials, constructional plant, implements, temporary building at site etc. and adjust the proceeds of sale thereof towards the dues recoverable from the contractor under the contract and if thereafter there remains any balance outstanding, it shall be recovered in accordance with the provisions of the contract.

In the event of above course being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagements or made any advance on any account or with a view to the execution of the work or the performance of the contract.

4.30 ACTION IN CASE WORK NOT DONE AS PER SPECIFICATIONS

All works under or in course of execution or executed in pursuance of the contract, shall at all times be open and accessible to the inspection and supervision of the Engineer-in-charge, his authorized subordinates in charge of the work and all the superior officers, officer of the Quality Assurance Unit of the WAPCOS or any organization engaged by the WAPCOS for Quality Assurance and of the Chief Technical Examiner's Office, and the contractor shall, at all times, during the usual working hours and at all other times at which reasonable notice of the visit of such officers has been given to the contractor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing, present for that purpose. Orders given to the Contractor's agent shall be considered to have the same force as if they had been given to the contractor himself.

If it shall appear to the Engineer-in-charge or his authorized subordinates in charge of the work or to the Chief Engineer in charge of Quality Assurance or his subordinate officers or the officers of the organization engaged by the WAPCOS for Quality Assurance or to the Chief Technical

Examiner or his subordinate officers, that any work has been executed with unsound, imperfect, or unskilful workmanship, or with materials or articles provided by him for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract, the contractor shall, on demand in writing which shall be made within twelve months (six months in the case of work costing Rs. 10 Lacs and below except road work) of the completion of the work from the Engineer-in-Charge specifying the work, materials or articles complained of notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the Engineer-in-Charge in his demand aforesaid, then the contractor shall be liable to pay compensation at the same rate as under clause 2 of the contract (for non-completion of the work in time) for this default.

In such case the Engineer-in-Charge may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates as the authority specified in Additional Conditions of Contract may consider reasonable during the preparation of on account bills or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and incidental items rectified, or removed and re-executed at the risk and cost of the contractor. Decision of the Engineer-in-Charge to be conveyed in writing in respect of the same will be final and binding on the contractor.

4.31 In respect of all labour directly or indirectly employed in the work for the performance of the contractor's part of this contract, the contractor shall at his own expense arrange for the safety provisions as per C.P.W.D. Safety Code framed from time to time and shall at his own expense provide for all facilities in connection therewith. In case the contractor fails to make arrangement and provide necessary facilities as aforesaid, he shall be liable to pay a penalty of Rs.200/- for each default and in addition, the Engineer-in-Charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor.

4.32 MINIMUM WAGES ACT TO BE COMPLIED WITH

The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, amended from time to time and rules framed thereunder and other labour laws affecting contract labour that may be brought into force from time to time.

4.33 WORK NOT TO BE SUBLET. ACTION IN CASE OF INSOLVENCY

The contract shall not be assigned or sublet without the written approval of the Engineer-in-Charge. And if the contractor shall assign or sublet his contract, or attempt to do so, or become insolvent or commence any insolvency proceedings or make any composition with his creditors or attempt to do so, or if any bribe, gratuity, gift, loan, perquisite, reward or advantage pecuniary or otherwise, shall either directly or indirectly, be given, promised or offered by the contractor, or any of his servants or agent to any public officer or person in the employ of WAPCOS in any way relating to his office or employment, or if any such officer or person shall become in any way directly or indirectly interested in the contract, the Engineer-in-Charge on behalf of the WAPCOS shall have power to adopt the course specified in Clause 3 hereof in the interest of WAPCOS and in the event of such course being adopted, the consequences specified in the said Clause 3 shall ensue.

4.34 CHANGES IN FIRM'S CONSTITUTION TO BE INTIMATED

Where the contractor is a partnership firm, the previous approval in writing of the Engineer-in

Charge shall be obtained before any change is made in the constitution of the firm. Where the contractor is an individual or a Hindu undivided family business concern, such approval as aforesaid shall likewise be obtained before the contractor enters into any partnership agreement where under the partnership firm would have the right to carry out the works hereby undertaken by the contractor. If previous approval as aforesaid is not obtained, the contract shall be deemed to have been assigned in contravention of Clause 21 hereof and the same action may be taken, and the same consequences shall ensue as provided in the said Clause 21.

4.35 WITHHOLDING AND LIEN IN RESPECT OF SUM DUE FROM CONTRACTOR

a) Whenever any claim or claims for payment of a sum of money arises out of or under the contract or against the contractor, the Engineer-in-Charge or the WAPCOS shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security, if any deposited by the contractor and for the purpose aforesaid, the Engineer-in-Charge or the WAPCOS shall be entitled to withhold the security deposit, if any, furnished as the case may be and also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the contractor, the Engineer-in-Charge or the WAPCOS shall be entitled to withhold and have a lien to retain to the extent of such claimed amount or amounts referred to above, from any sum or sums found payable or which may at any time thereafter become payable to the contractor under the same contract or any other contract with the Engineer-in-Charge of the WAPCOS or any contracting person through the Engineer-in-Charge pending finalization of adjudication of any such claim.

It is an agreed term of the contract that the sum of money or moneys so withheld or retained under the lien referred to above by the Engineer-in-Charge or WAPCOS will be kept withheld or retained as such by the Engineer-in-Charge or WAPCOS till the claim arising out of or under the contract is determined by the arbitrator(if the contract is governed by the arbitration clause) by the competent court, as the case may be and that the contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to above and duly notified as such to the contractor. For the purpose of this clause, where the contractor is a partnership firm or a limited company, the Engineer-in-Charge or the WAPCOS shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any partner/limited company as the case may be, whether in his individual capacity or otherwise.

b) WAPCOS shall have the right to cause an audit and technical examination of the works and the final bills of the contractor including all supporting vouchers, abstract, etc., to be made after payment of the final bill and if as a result of such audit and technical examination any sum is found to have been overpaid in respect of any work done by the contractor under the contract or any work claimed to have been done by him under the contract and found not to have been executed, the contractor shall be liable to refund the amount of over-payment and it shall be lawful for WAPCOS to recover the same from him in the manner prescribed in sub-clause (i) of this clause or in any other manner legally permissible; and if it is found that the contractor was paid less than what was due to him under the contract in respect of any work executed by him under it, the amount of such under payment shall be duly paid by WAPCOS to the contractor, without any interest thereon whatsoever.

Provided that the Government shall not be entitled to recover any sum overpaid, nor the contractor shall be entitled to payment of any sum paid short where such payment has been agreed upon between the WAPCOS on the one hand and the contractor on the other under any term of the contract permitting payment for work after assessment by WAPCOS.

4.36 LIEN IN RESPECT OF CLAIMS IN OTHER CONTRACTS

Any sum of money due and payable to the contractor (including the security deposit returnable to him) under the contract may be withheld or retained by way of lien by the Engineer-in-Charge or the WAPCOS or any other contracting person or persons through Engineer-in-Charge against any claim of the Engineer-in-Charge or WAPCOS or such other person or persons in respect of payment of a sum of money arising out of or under any other contract made by the contractor with the Engineer-in-Charge or the WAPCOS or with such other person or persons.

It is an agreed term of the contract that the sum of money so withheld or retained under this clause by the Engineer-in-Charge or the WAPCOS will be kept withheld or retained as such by the Engineer-in-Charge or the WAPCOS or till his claim arising out of the same contract or any other contract is either mutually settled or determined by the arbitration clause or by the competent court, as the case may be and that the contractor shall have no claim for interest or damages whatsoever on this account or on any other ground in respect of any sum of money withheld or retained under this clause and duly notified as such to the contractor.

4.35 ACTION WHERE NO SPECIFICATIONS ARE SPECIFIED

In the case of any class of work for which there is no such specifications as referred to in Clause 11, such work shall be carried out in accordance with the Bureau of Indian Standards Specifications. In case there are no such specifications in Bureau of Indian Standards, the work shall be carried out as per manufacturers' specifications, if not available then as per District Specifications. In case there are no such specifications as required above, the work shall be carried out in all respects in accordance with the instructions and requirements of the Engineer-in-Charge.

4.36 NO GAZETTED ENGINEER TO WORK AS CONTRACTOR WITHIN ONE YEAR OF RETIREMENT

No engineer of gazetted rank or other gazetted officer employed in engineering or administrative duties in an engineering department of the Government of India shall work as a contractor or employee of a contractor for a period of one year after his retirement from government service without the previous permission of Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found at any time to be such a person who had not obtained the permission of Government of India as aforesaid, before submission of the tender or engagement in the contractor's service, as the case may be.

4.37 APPRENTICES ACT PROVISIONS TO BE COMPLIED WITH

The contractor shall comply with the provisions of the Apprentices Act, 1961 and the rules and orders issued thereunder from time to time. If he fails to do so, his failure will be a breach of the contract and the WAPCOS may, in his discretion, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.

4.38 SITE OFFICES AND FACILITIES

The cost of providing the work/facilities stated in the sub-clauses of this clause are to be borne by the Contractor and shall be deemed to be included in the rates quoted by the Contractor.

The Contractor shall supply, erect and satisfactorily maintain Site Office for the Employer in good condition until final completion of works, a well-lighted, well ventilated and air-conditioned and adequately weather proofed temporary, burglar proof readily available Site Office (Portable

Cabins) of adequate capacity having the covered area not less than 500 Sq. Ft. with all facilities such as telephone, fax, internet, photocopier, computer/ laptop & printer along with operator, regular electric & purified drinking water supply etc. and 4-wheeled transportation/inspection vehicle, in running condition & duly maintained as per the requirement of the project, without any extra cost to employer. The Contractor shall provide adequate access to the office. The Contractor shall be responsible during the continuance of the Contract for the security of the office and for all plans, documents and papers and other clauses contained therein. The sitting of the office shall be in accordance with the instructions of the Engineer-in-Charge. Service personnel shall also be made available at the Office at all times and shall clean site office daily. The Contractor shall provide uninterrupted power and water to the Office as directed for 24 hours free of cost. An amount equal to 1% of gross bill from all running account & final bill shall be recovered, if the above facilities are not provided by the Contractor.

The Contractor shall dismantle and remove from site all such temporary structures on completion of Contract or whenever required by the Employer.

The contractor shall also make sufficient arrangement for Photography/ Videography preferably by maintaining a camera/video camera at site so that video and photographs can be taken of a specific activity at any point of time. The contractor shall also provide software like MS Project/Primavera etc. for the purpose of preparing progress report etc.

The Contractor shall provide at his own cost, One Site sign Board, at directed location of overall size 2.40 metres wide and 1.50 metres height and of approved design. The names of the Project, Employer, Consultants, Engineer and Contractor etc. shall be exhibited as directed.

The Contractor shall maintain daily weather record. Daily maximum and minimum temperature and corresponding, humidity shall be recorded and charted. Rainy days shall be recorded when the rain lasting more than one hour hampers the work. Any other inclemency in weather shall be recorded. The records shall be regularly shown to the Engineer-in-Charge and his signature obtained.

The Contractor shall arrange at his own cost to maintain a progress record of the works by taking (5"x 7")/8'X10" size colour photographs minimum 6 Nos. or more per month as directed by the Engineer-in-Charge during the construction stages and after completion and shall supply one set to the Engineer-in-Charge at no extra cost. These photographs shall also be submitted as part of the Contractors R.A. Bills.

The Contractor shall provide arrangements for firefighting at his own cost. For this purpose, he shall provide requisite number of fire extinguishers and adequate number of buckets, some of which are to be always kept filled with sand and some with water. This equipment shall be provided at suitable prominent and easily accessible places and shall be properly maintained. The Contractor may be subject to periodic fire prevention inspections and any deficiency or unsafe condition shall be corrected by the Contractor at his own cost and to approval of the Engineer-in-Charge and the relevant authorities.

These fire prevention inspections shall include but not limited to the following:

- Proper handling, storage and disposal of combustible materials, liquids and wastes.
- Work operations which can create fire hazards.
- Access for firefighting equipment.
- Type, size, number and location of fire extinguishers or other firefighting equipment.

- Inspection and maintenance records for extinguishers
- Type, number and location of containers for the removal of surplus materials and rubbish.
- General housekeeping

For the purpose of quick communication between the Engineer-in-Charge and the Contractor or his Representative, Site Order Books shall be maintained at site in the manner as described below:

Any communication, relating to the works may be conveyed through records in the site order book. Such a communication from one party to the other shall be deemed to have been adequately served in terms of the Contract. Each site order book shall have machine- numbered pages in triplicate and shall be carefully maintained and preserved by the Contractor and shall be made available to the Engineer-in-Charge as and when demanded. Any instruction which the Engineer-in-Charge may like to issue to the Contractor may be recorded by him in the site order book and two copies thereof taken by the Engineer-in-Charge for his record. The Contractor or his Contractor or Representative may similarly record in the site order book any communication he may like to send to the Engineer-in-Charge. Two copies thereof when sent to the Engineer-in-Charge and receipt obtained thereof, will constitute adequate services of the communication to the Engineer-in-Charge.

4.39: Data, Services and Facilities to be provided by the Employer

Attention is drawn to the following which are not provided by the Employer and are to be arranged by the Contractor at his own cost.

- The Employer will not provide office accommodation. The Contractor shall make his own office accommodation arrangements for their office staff for each of the field supervision teams including furniture, equipment, operation and maintenance.
- The Employer will not provide project vehicles to the Contractor. The Contractor shall make his own arrangements in respect of vehicles. The Contractor shall ensure that vehicles for the team are of good makes and are of excellent working condition.
- The Contractor shall be responsible for making his own arrangements for survey equipment.
- The Contractor shall be responsible for making his own arrangements for communications.

4.29 Order of Precedence Of Documents

In case of difference, contradiction, discrepancy, with regard to conditions of contract, specifications, Drawings, Bill of Quantities etc. forming part of the contract, the following shall prevail in order of precedence.

- WAPCOS and ESIC MOU and terms and condition lay over by time to time.
- Letter of Award, along with statement of agreed variation and its enclosures, if any.
- Special Condition of Contract
- Scope of Work
- Description of Bill of Quantity/Schedule of Quantities
- Technical Specification (General, Additional and Technical Specification) as given in Tender Documents
- General Condition of Contract

- Drawings, if any
- CPWD/MORTH specification (as specified in Technical Specification in Tender) update with correction slips issued up to last date of receipt of tenders.
- Relevant B.I.S codes

Clause:- PREFERENCE TO MAKE IN INDIA

The provision of revised “Public Procurement (Preference to Make in India) Order 2017-Revision’ Issued by Department of Industrial Policy and Promotion under Ministry of Commerce and Industry vide letter no.-P45021/2/2017-PP (BE-II) as amended on 16.09.2020 shall be applicable to the bidding process and award of the contract shall be done accordingly. In this connection, the minimum local content shall be 50% and the margin of purchase preference shall be 20%.

Verification of local Content

- The bidder at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self –certification that the item offered meets the local content requirement of the tender. They shall also give details of the location at which the local value addition is made.

In cases of procurement for a value in excess of Rs. 10 crores, the bidder shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

For & on behalf of Tenderer

Signature of the authorized representative :

Name of the agency :

Name and designation :

Contact Details a) Communication address :

b) E-mail id :

c) Contact Nos. :

SECTION-IV

SPECIAL CONDITIONS TO CONTRACT

- I. The contract means the documents forming the tender and acceptance thereof and the formal agreement executed between the competent authority on behalf of WAPCOS Limited and the contractor/agency together with the documents referred to therein including these conditions, instructions issued from time to time by the Engineer-in-charge all these documents taken together shall be deemed to form one contract and shall be complementary to one another. In case of difference, contradiction, discrepancy, dispute with regard to General Condition of Contract (G.C.C), the provision made in the Special Conditions of Contract (SCC) will prevail.

The Contractor shall be responsible for consequential effects arising out during the inspection done by the Chief Technical Examiner Cell, Central Vigilance Commission or by the Building Works Committee or third party authorized by WAPCOS or any statutory committee or by any duly authorized representative of WAPCOS, during the progress or any time after the construction and development of project up to the defect liability period, and will take appropriate action for rectification of defective work. Rectification of defective works or replacement of sub-standard materials or articles, as pointed out by the Chief Technical Cell, Central Vigilance Commission, Building Works Committee or authorized representative of WAPCOS or third party authorized by WAPCOS or any statutory committee, will be carried out or replaced by the Contractor at his own risk and cost. WAPCOS will not pay any extra amount for such rectification or replacement.

II. Completion Period

The duration of contract will be Twelve (12) **month** from the date of start of work which shall be increased or decreased as per the requirement of ESIC/WAPCOS as per the same terms and conditions.

- III. The agency shall be responsible to collect the feedback from client on the weekly/monthly/quarterly basis. Based on the observations, if any, recorded by the

allotted, necessary action shall have to be initiated by the agency and defects/deficiency shall have to be attended immediately and is to be brought to the Notice of WAPCOS

IV. Goods and Service Tax

The quoted rate shall be exclusive of Goods and Service tax (GST), However, GST shall be reimbursed on actual basis after the submission of GST proof.

V. The agency will depute appropriate resources to monitor and manage the progress of the project.

VI. The liability to insure the spares and tools, if any, in the possession of the agency will be of the agency and the liability for any loss or damage due to any fire, burglary, theft, etc. will be that of the agency.

VII. Obligations of WAPCOS/ESIC

WAPCOS/ESIC shall -

- Facilitate entry pass to all staff and personnel of the agency
- Ensure timely payment as specified elsewhere in this NIT.

VIII. Decision of WAPCOS For Recovery Of Reduced Worker force Shall Be Final And Binding:

WAPCOS has given its provisional requirement of different categories of workforce for different work in subsequent paras. This will be the minimum quantity of workers to be deployed by the Contractor at site. However, if WAPCOS choose/decides to reduce the workforce at any time, recovery shall be made from the contractor's payment at the rate decided by WAPCOS which shall be final & binding on the contractor/agency. The reduction amount shall be calculated on the basis of BOQ rate and plus & minus rate quoted by the bidder.

No extra payment shall be made by WAPCOS if contractor choose to deploy more workforces on its own then mentioned in the tender documents.

IX. Minimum Wages

If shall be the responsibility of contractor to pay minimum wages as per CLC. Notification to the workers as applicable/revised time to time during the tenure of the contract. This tender is prepared on the basis of minimum wages applicable as on the date of publication of this tender except the following post.

However, any increase or decrease in minimum wages by the Government after the last date of submission of the tender during the tenure of the project shall be reimbursed/deducted with/from the in their monthly bills of the contractor based on the applicability of revised rates and on production of suitable evidences as per the norms except the following person.

- In Case the agency fails to abide by any of the conditions a financial penalty on every default as decided by WAPCOS management will be imposed

X. Fore closure Of Contract Due To Abandonment or Reduction in Scope of Work

If at any time after acceptance of the tender, Engineer-in-charge shall decide to abandon or reduce the scope of the works for any reason whatsoever and hence not require the whole or any part of the works to be carried out, the Engineer-in-Charge shall give notice in writing to that effect to the contractor and the contractor shall act accordingly in the matter. The contractor shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the works in full but which he did not derive in consequence of the foreclosure of the whole or part of the works.

The contractor shall be paid at contract rates, full amount for works executed at site.

XI. No labour below the age of eighteen years shall be employed on the work.

XII. Payment of Wages

- a. The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as defined in the C.P.W.D. Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) CLC Rules, wherever applicable.
- b. The contractor shall, notwithstanding the provisions of any contract to the contrary, cause to be paid fair wage to labour indirectly engaged on the work, including any labour engaged by his sub-contractors in connection with the said work, as if the labour had been immediately employed by him.
- c. In respect of all labour directly or indirectly employed in the works for performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with the Contractor's Labour Regulations made by WAPCOS from time to time in regard to payment of wages, wage period, deductions from wages recovery of wages not paid and deductions unauthorized made, maintenance of wage books or wage slips, publication of scale of wages and other terms of employment, inspection and submission of periodical returns and all other matters of the like nature or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and the Contract Labour (Regulation and Abolition) Rules, CLC rules, wherever applicable.
- d. (i) The Engineer-in-Charge concerned shall have the right to deduct from the moneys due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfilment of the conditions of the contract for the benefit of the workers, non-payment of wages or of deductions made from his or their wages which are not justified by their terms of the contract or non-observance of the Regulations.
- (ii) Under the provision of Minimum Wages (CLC) Rules, the contractor is bound to allow to the labours directly or indirectly employed in the works one-day rest for 6 days continuous work and pay wages at the same rate as for duty. In the event of default, the Engineer-in-Charge shall have the right to deduct the sum or sums not paid on account of wages for

weekly holidays to any labours and pay the same to the persons entitled thereto from any money due to the contractor by the Engineer-in-Charge concerned.

In the case of Union Territory of Delhi, however, as the all-inclusive minimum daily wages fixed under Notification of the Delhi Administration No.F.12(162) MWO/DAB/ 43884-91, dated 31-12-1979 as amended from time to time are inclusive of wages for the weekly day of rest, the question of extra payment for weekly holiday would not arise. CLC rules also applicable.

- e. The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, CLC Minimum wages Act, or the modifications thereof or any other laws relating thereto and the rules made thereunder from time to time.
- f. The contractor shall indemnify and keep indemnified WAPCOS against payments to be made under and for the observance of the laws aforesaid and the C.P.W.D. Contractor's Labour Regulations/CLC Labour rule without prejudice to his right to claim indemnity from his subcontractors.
- g. The laws aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract.
- h. Whatever is the minimum wage for the time being, or if the wage payable is higher than such wage, such wage shall be paid by the contractor to the workmen directly without the intervention of Jamadar and that Jamadar shall not be entitled to deduct or recover any amount from the minimum wage payable to the workmen as and by way of commission or otherwise.
- i. The contractor shall ensure that no amount by way of commission or otherwise is deducted or recovered by the Jamadar from the wage of workmen.

XIII. In respect of all labour directly or indirectly employed in the work for the performance of the contractor's part of this contract, the contractor shall at his own expense arrange for the safety provisions as per C.P.W.D. Safety Code framed from time to time and shall at his own expense provide for all facilities in connection therewith. In case the contractor fails to make arrangement and provide necessary facilities as aforesaid, he shall be liable to pay a penalty of Rs.200/- for each default and in addition, the Engineer-in- Charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor.

XIV. In respect of all labour directly or indirectly employed in the works for the performance of the contractor's part of this contract, the contractor shall comply with or cause to be complied with all the rules framed by Government from time to time for the protection of health and sanitary arrangements for workers employed by the WAPCOS and its contractors.

XV. In the event of the contractor(s) committing a default or breach of any of the provisions of the WAPCOS, Contractor's Labour Regulations and Model Rules for the protection of health and sanitary arrangements for the workers as amended from time to time or furnishing any

information or submitting or filing any statement under the provisions of the above Regulations and Rules which is materially incorrect, he/they shall, without prejudice to any other liability, pay to the Government a sum not exceeding Rs.200/- for every default, breach or furnishing, making, submitting, filing such materially incorrect statements and in the event of the contractor(s) defaulting continuously in this respect, the penalty may be enhanced to Rs.200/- per day for each day of default subject to a maximum of 5 per cent of the estimated cost of the work put to tender. The decision of the Engineer-in-Charge shall be final and binding on the parties.

- XVI.** Should it appear to the Engineer-in-Charge that the contractor(s) is/are not properly observing and complying with the provisions of the C.P.W.D. Contractor's Labour Regulations and Model Rules and the provisions of the Contract Labour (Regulation and Abolition) Act 1970, and the Contract Labour (R& A) CLC rules, for the protection of health and sanitary arrangements for work-people employed by the contractor(s) (hereinafter referred as "the said Rules") the Engineer-in-Charge shall have power to give notice in writing to the contractor(s) requiring that the said Rules be complied with and the amenities prescribed therein be provided to the work-people within a reasonable time to be specified in the notice. If the contractor(s) shall fail within the period specified in the notice to comply with and/observe the said Rules and to provide the amenities to the work-people as aforesaid, the Engineer-in-Charge shall have the power to provide the amenities hereinbefore mentioned at the cost of the contractor(s). The contractor(s) shall erect, make and maintain at his/their own expense and to approved standards all necessary huts and sanitary arrangements required for his/their work-people on the site in connection with the execution of the works, and if the same shall not have been erected or constructed, according to approved standards, the Engineer-in-Charge shall have power to give notice in writing to the contractor(s) requiring that the said huts and sanitary arrangements be remodelled and/or reconstructed according to approved standards, and if the contractor(s) shall fail to remodel or reconstruct such huts and sanitary arrangements according to approved standards within the period specified in the notice, the Engineer-in-Charge shall have the power to remodel or reconstruct such huts and sanitary arrangements according to approved standards at the cost of the contractor(s).

XVII. Changes In Firm's Constitution To Be Intimated

Where the contractor is a partnership firm, the previous approval in writing of the Engineer-in-Charge shall be obtained before any change is made in the constitution of the firm. Where the contractor is an individual or a Hindu undivided family business concern, such approval as aforesaid shall likewise be obtained before the contractor enters into any partnership agreement where under the partnership firm would have the right to carry out the works hereby undertaken by the contractor. If previous approval as aforesaid is not obtained, the contract shall be deemed to have been assigned in contravention of Clause 21 hereof and the same action may be taken, and the same consequences shall ensue as provided in the said Clause 21.

XVIII. Contractor Indemnify WAPCOS against Patent Rights

The contractor shall fully indemnify and keep indemnified the WAPCOS against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties which may be payable in respect of any article or part thereof included in the contract. In the event of any claims made under or action brought against WAPCOS in respect of any such matters as aforesaid, the contractor shall be immediately notified

thereof and the contractor shall be at liberty, at his own expense, to settle any dispute or to conduct any litigation that may arise therefrom, provided that the contractor shall not be liable to indemnify the WAPCOS if the infringement of the patent or design or any alleged patent or design right is the direct result of an order passed by the Engineer-in-Charge in this behalf.

XIX. TERMINATION OF CONTRACT ON DEATH OF CONTRACTOR

Without prejudice to any of the rights or remedies under this contract, if the contractor dies, the Engineer-In-Charge on behalf of the WAPCOS shall have the option of terminating the contract without compensation to the contractor.

XX. If Relative Working In WAPCOS Then the Contractor Not Allowed To Tender

The contractor shall not be permitted to tender for works in the WAPCOS responsible for award and execution of contracts in which his near relative is posted in WAPCOS. 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 Officer in the WAPCOS. Any breach of this condition by the contractor would render him liable to be debarred from tendering in WAPCOS any breach of this condition.

NOTE: By the term “near relatives” is meant wife, husband, parents and grandparents, children and grandchildren, brothers and sisters, uncles, aunts and cousins and their corresponding in-laws.

XXI. Criminal charges against violating Bidder(s)/Contractor(s)/ Subcontractor(s)

If the Principal obtains knowledge of conduct of a Bidder/Contractor or any employee or a representative or an associate of a Bidder/Contractor, which constitutes a criminal offence under the IPC/PC Act, or if the Principal has substantive suspicion in this regard, the Principal will forthwith inform the same to the Chief Vigilance Officer, WAPCOS.

XXII. DISMANTLED MATERIAL WAPCOS PROPERTY

The contractor shall treat all materials obtained during dismantling of a structure, excavation of the site for a work, etc. as WAPCOS's/ESIC property and such materials shall be disposed off to the best advantage of WAPCOS according to the instructions in writing issued by the Engineer-in Charge.

XXIII. WORKS TO BE EXECUTED IN ACCORDANCE WITH SPECIFICATIONS, DRAWINGS, ORDERS ETC.

The contractor shall execute the whole and every part of the work in the most substantial and workmanlike manner both as regards materials and otherwise in every respect in strict accordance with the specifications, BSI standards and codes, Indian electricity rule 1956, Indian electricity act 2003 and fire safety regulation pertaining to electric applications. The specification with up to date correction on the last date of submission of tender for work. In case specification of any item is not clear, MoRTH Specification, CPWD specification, Indian standard (IS) IRC (Indian Road Congress) specification, NBPDC specifications with up to date correction slips issued on last date of submission of tender of work is applicable.

The contractor shall also conform exactly, fully and faithfully to the design, drawings and instructions in writing in respect of the work signed by the Engineer-in-Charge and the contractor shall be furnished free of charge one copy of the contract documents together with specifications, designs, drawings and instructions as are not included in the standard

specifications specified in Additional Conditions of Contract or in any Bureau of Indian Standard or any other, published standard or code or, Schedule of Rates or any other printed publication referred to elsewhere in the contract.

The contractor shall comply with the provisions of the contract and with the care and diligence execute and maintain the works and provide all labour and materials, tools and plants including for measurements and supervision of all works, structural plans and other things of temporary or permanent nature required for such execution and maintenance in so far as the necessity for providing these, is specified or is reasonably inferred from the contract. The Contractor shall take full responsibility for adequacy, suitability and safety of all the works and methods of construction.

At least to 10% of prescribed Tests as per Central Public Works Department Manual/IS Codes of construction materials shall be carried out from the outside approved/NABL recognized Laboratory as may be approved by WAPCOS without any extra expenditure to WAPCOS.

The Contractor shall establish a field test laboratory on the site with latest equipment's for carrying out field tests of construction materials and will maintain proper records of all the test results.

XXIV. **SECURED ADVANCE ON NON-PERISHABLE MATERIALS:** Not applicable

XXV. **MOBILISATION ADVANCE:** Not applicable

XXVI. **PLANT MACHINERY & SHUTTERING MATERIAL ADVANCE:** Not applicable

XXVII. **INTEREST & RECOVERY:** Not Applicable

XXVIII. **Requirement of Technical Staff:**

Min. Qualification/ Experience	Nos.	Designation	Penal recovery if not employed
1. Graduate Engineer (Civil/Electrical)/ Diploma holder (Civil) with minimum seven years' experience in the relevant field (Nodal Officer for ESIC)	1	Site-in-charge	40,000/- per month

- **Note: Salary of the above-posted employee shall be beard by the contractor only. No reimbursement/payment shall be done by WAPCOS or ESIC.**

XXIX. **Other Conditions Required**

- The firm/contractor shall furnish a list of the workers deployed along with their full names, father's/husband's name, date of birth, full residential addresses (present & permanent), contact tel. No. etc. The firm/contractor shall be responsible to get the character and antecedents of the persons verified by the Police before deploying them in ESIC. The authenticated copies of Police verification certificate/documents of the persons, who are to be deployed in ESIC, shall be submitted by the firm to WAPCOS. WAPCOS/ESIC reserve the right to conduct the test, as may be deemed fit to adjudge the suitability of the persons provided by the firm/contractor. WAPCOS/ESIC also reserves the right to get the person's character and antecedents verified by the Police, if deemed necessary.
- The firm will also ensure that the persons deployed in ESIC are medically fit and will keep record of their medical fitness. The firm shall withdraw such persons, who are not found suitable by ESIC/WAPCOS for any reasons, immediately on receipt of such request from WAPCOS/ESIC. The copies of medical fitness certificate of the persons

who are to be deployed in ESIC, shall be submitted by the successful bidder to WAPCOS/ESIC.

- There shall be no representation of any kind, implied or otherwise, of any automatic absorption, regularization, continued engagement or concession or preference in employment security for the persons engaged by the service provider for any engagement. service or employment in any capacity, in any office or establishment of the Govt. A copy of each of the agreement entered into by the firm with the persons, deployed in ESIC are required to be submitted to WAPCOS/ESIC within a fortnight of deployment.
- The contract does not amount to employment with the Government or confer any right on the contractor/firm or the workers engaged by the firm/contractor, nor any representation by the Government as to the possibility or preference in. employment at any time in future in respect of security and other personnel of the contractor/firm in any office/ establishment of the Government.
- The firm/contractor shall appoint a coordinator, who would be responsible for immediate interaction with WAPCOS/ESIC and so that optimal services are available without disruption.
- The worker engaged will observe discipline and decorum and shall not-misbehave with any WAPCOS/ESIC officer.
- If at any point of time, any person absent himself/herself, a substitute shall be provided immediately.
- In case, any person is absent on a particular day and substitute is not provided, a daily rate/ pro rate shall be deducted from the bill for the month. In case the firm is asked to provide a substitute and fails in doing so within 3 (three) days, then a penalty equal to 10% of the daily wages of the worker will be imposed on the firm, besides deduction of daily wages.
- The firm/contractor shall be directly responsible for settlement of any dispute or grievance of the 'Worker' relating to his/her deployment in ESIC and any other matters that may arise in this regard and WAPCOS/ESIC, in no way, be responsible for settlement of such issues/dispute.
- Any liability regarding payments of wages to the 'workers' arising due to non compliance with any provisions of the Labour Laws or due to any human loss/injury during the course of work will be the sole and personal responsibility of the firm/contractor. The successful firm/contractor shall submit, a notarized affidavit on a stamp paper of appropriate value to the effect that the firm undertake to pay Minimum Rates of wages to the persons engaged as per applicable orders of CLC, GOVERNMENT OF INDIA and to enhance the rates, as and when it is revised as well as all the statutory dues w.r.t ESI, EPF etc. to ESIC. The contractor will submit the copies of the EPF statement/pass Book, ESI Card and Service Tax Challans long with monthly bill, without which the payment to the contracting firm will not be released.
- The successful bidder will submit an undertaking in form of duly executed affidavit to deposit EPF contribution of the Employer and Employee in the EPF Account of the workers every month.
- The successful bidder will also submit an undertaking in form of duly executed affidavit to the effect that if the contractor does not provide copies of depositing Employer and Employees share in the EPF Account of the employee, he will not be entitled for these payments.
- The successful bidders will also submit an undertaking in the form of duly executed affidavit to comply with the instructions relating to payment of EPF in respect of those employees who are not in excluded category as per instruction issued by the

Government on the subject.

- The employer's share of EPF will not be paid to the contractor for those persons, who are in the excluded category of EPF contribution as per latest guidelines issued by Ministry of Labour & Employment in this regard. The employer's share of EPF will be paid to the Contractor on production of documentary evidence of depositing the share in the individual employee's EPF account opened for the employee in his/her name.
- The firm/contractor shall undertake to provide the services for the entire duration regularly failing which the Performance Security Deposits and such other amount that may be due from WAPCOS/ESIC to the firm shall stand forfeited.
- If at any point of time, the services being provided by the firm/contractor are found to be unsatisfactory in any manner, the WAPCOS/ESIC will have full authority to discontinue the services of the firm/contractor by giving notice of 15 days. The decision of WAPCOS in this regard shall be final and binding on the firm/contractor.
- The working hours of the workers on the basis of 6 days working in a week. The workers shall have to sign the attendance both at the time of arrival and departure.
- In emergent situations the services of the persons may be required on Sundays/Holidays also.
- If, any workers arrives late or leaves early, a deduction of the daily rate shall be made on half day basis.
- If, at any point of time, the services of any person provided by the firm/contractor are found to be unsatisfactory or not of the expected level in any manner, the firm/contractor shall change the worker immediately.
- The workers shall not be entitled for any financial benefit that are admissible to regular employees of WAPCOS/ESIC. However, the firm/contractor is required to pay wages to the workers engaged strictly as per the Minimum Wages Act modified from time to time including EPF, ESI and other social security schemes of the Government of CLC, Government of India and Ministry of Labour & Employment. The wages to the workers would be dynamic. The weekly rest etc. should also be allowed to workers as per statutory provisions. This is required to be quoted by all bidders at the time of submitting bids, which would be increased as and when increased by the Government authorities. All the statutory requirements such as obtaining valid Labour Licence on the basis of contract letter and compliance of all the provisions of social security legislations in general and provisions of the Contract Labour (Regulation & Abolition) Act, 1970 and the Contract Labour (R&A) Rules 1971 in particular are required to be complied with by the contractor. The firm/contractor should quote their Service Charge for providing services of workers for WAPCOS/ESIC over and above the statutory payments to be made to each worker. so deployed. Except the Administrative Service Charges, quoted by the service provider, no other amount is to be retained by the service provider out of the minimum wages, EPF, ESI etc. as mandated by the statutory provisions on the subject. The proof of depositing the service tax with the appropriate authorities have to be submitted to WAPCOS periodically.
- The administrative Service Charges per worker Quoted by the firm in the financial bid shall be commensurate with the administrative and supervisory efforts required for executing the contract.
- The rates of wages and the consequential revision in the statutory contribution on worker's wages will be revised by CLC from the date of statutory revision in minimum wages of the workers and in case of revision in the rate of contribution on worker's wages (i.e EPF,ESI etc.) by the CLC Government/Central Government whatsoever may be the case. However, there will be no increase in the Administrative Service Charges quoted by the firm/contractor.

- The firm should be registered with ESI, PF, Service Tax, Work Contract Tax, Labour Licence & PAN (GST) with the concerned authorities.
- The contractor shall comply with all relevant Laws and the Rules made there under viz. Income Tax, ESI Act, PF Act, Factories Act, ID Act and Contract Labour (Regulation & Abolition) Act, Private Security Agencies (Regulation) Act, 2005 and Private Security Agencies Central Model Rules, 2006. Payment shall be conditional on fulfillment of the provisions of these Acts and the rules framed there under.
- The payment of wages to the workers have to be made by the contractor in accordance with the provision of Section 21 of the Contract Labour (Regulation & Abolition) Act, 1970.
- The firm/contractor will make payment of wages to the workers provided by 7th of every month.
- In case of failure to make payment of wages to the workers within the prescribed period or making short payment by the firm/contractor, the Performance Security Deposit amount deposited by the firm/contractor with WAPCOS Limited will be forfeited. The firm will also be blacklisted.
- **Vehicle for site visit and office set up at site for WAPCOS officials shall be provided by the contractor at his own cost.**
- The Firm/ contractor shall be responsible for all commission and omissions on the part of manpower engaged for the purpose. WAPCOS Limited shall not be held responsible in any manner whatsoever, in matter of injury/death/health etc. of the contractor's employee performing duties under this contract.
- If it is found that the information/certificates furnished by the participating firm is incorrect/wrong or bogus, the firm shall be blacklisted, its bids will be ignored and EMD will be forfeited.
- WAPCOS Limited has reserve the right to execute more items or quantities or manpower as per the ESIC or site requirement.
- This tender is based upon the estimations on the basis of site conditions(tentative) enclosed with technical specifications and BOQ. WAPCOS Limited reserves the right to vary any individual item to any extent either positive or negative within the scope of work as defined as per the requirement of ESIC/WAPCOS Limited. The decision as to items are within the scope of work shall be of WAPCOS Limited which is final & binding. Therefore in case of variation in quantity as given in BOQ either positive or negative no rate revision is applicable. In case of New Rate or Price of the Substituted/Extra/deduction items shall be derived from any relevant rates or prices in the Contract. New rate or price of the substituted/Extra/deduction items shall be derived from the Delhi Schedule of Rates -2021/2022/2023 as per applicable. In case the rates are not available in DSR, the same shall be derived from the competitive market quotes, obtained by WAPCOS Limited/WAPCOS Limited representative. The contractor's profit and overheads together shall be taken as 15% only. ESI, Bonus, CPoH and EPF etc. as applicable also taken in case of changes in the manpower. In Substitute Item or extra item, being the scheduled Item (Delhi Schedule of rates), these shall be paid as per Delhi Schedule of rates plus/minus tender percentage with respect to estimated cost.
- The completion cost of any maintenance work shall not exceed 2.00 times the tendered amount and 10% of the sanctioned cost for budgeted works. The Engineer-in-charge shall record reasons for such deviation beyond the contract amount and take necessary approval from competent authority.
- The material shall conform to the quality and make as per attached list in Technical Specifications. However, for the items not appearing in the list preference shall be

given to those articles which bear ISI certification marks. In case articles bearing ISI certification marks are not available the quality of sample brought by the Contractor shall be judged by the standard laid down in the relevant ISI specification/CPWD specification. All materials and articles brought by the contractor to the site for use shall conform to the samples approved, which shall be preserved till the completion of the work. However, such articles which bear ISI mark but stand banned by CPWD will not be used. Notwithstanding the case of materials of "Preferred Make" as given in Annexure, provisions of Clause 10A of the General Conditions of Contract for Central PWD works shall be applicable on the materials of "Preferred Make" also.

For & on behalf of Tenderer

ANNEXURE – I

FORM OF PERFORMANCE SECURITY (GUARANTEE)

WAPCOS Limited,
76-C, Sector 18,
Gurgaon-122015.

In consideration of _____ (Employer's name) (hereinafter referred to as "the Employer") which expression shall, unless repugnant to the context or meaning thereof include its successors, administrators and assigns) having awarded to _____ (Contractor's name & address) (hereinafter referred to as "the Contractor" which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns) a contract, by issue of Employer's Notification of Award No. _____ dt. _____ and the same having been unequivocally accepted by the Contractor, resulting into a contract valued at Rs. _____ (Rupees _____ only) for _____ (name of work) (hereinafter called "the contract") and the Contractor having agreed to provide a Contract Performance Guarantee for the faithful performance of the entire contract equivalent to Rs. _____ (Rupees _____ only) (5 % of the said value of the Contract to the Employer).

We, _____ (name & address of bank) (hereinafter referred to as "the Bank" which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns) do hereby guarantee and undertake to pay the Employer, on demand any or, all monies payable by the Contractor to the extent of Rs. _____ (Rupees _____ only) as aforesaid at any time up to _____ without any demur, reservation, contest, recourse or protest and/or without any reference to the Contractor. Any such demand made by the Employer on the bank shall be conclusive and binding notwithstanding any difference between the Employer and the Contractor or any dispute pending before any Court, Tribunal, Arbitrator or any other authority. The Bank undertakes not to revoke this guarantee during its currency

without previous consent of the Employer and further agrees that the guarantee herein contained shall continue to be enforceable till the Employer discharges this guarantee.

We the said Bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said contract have been fully paid and its claims satisfied or discharged or till the Employer certifies that the terms and conditions of the said Contract have been fully and properly carried out by the said Contractor and accordingly discharges the guarantee.

The Employer shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee, from, time to time to extend the time for performance of the Contract by the Contractor. The Employer shall have the fullest liberty without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Contractor and to exercise the same at any time in any manner and either to enforce or to forbear to enforce any covenants, contained or implied, in the Contract between the Employer and the Contractor or any other course or remedy or security available to the Employer. The bank shall not be released of its obligations under these presents by any exercise by the Employer of its liberty with reference to the matters aforesaid or any of them or by reason of any other act or forbearance or other acts of omission or commission on the part of the Employer or any other indulgence shown by the Employer or by any other matter or thing whatsoever which under law would but for this provision, have the effect of relieving the Bank. The guarantee shall not be affected by a change in the constitution of the bank or of the employer.

The bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance, without proceeding against the Contractor and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's liabilities. We The Said Bank do hereby declare that we have absolute and unconditional power to issue this guarantee in your favour under the Memorandum and Articles of Association or such other constitutional documents of the Bank and the undersigned have full power to execute this guarantee under the Power of Attorney/ Post Approval Authorization dated _____ of the bank granted to him / us by the Bank. We the said bank do hereby declare and undertake that your claim under the guarantee shall not be affected by any deficiency or other defect in the powers of the bank or its officials and the guarantee shall be deemed to have been issued as if the bank and its officials have all the powers and authorization to give this guarantee on behalf of the bank. We the said bank do hereby certify the genuineness and appropriateness of the Stamp paper and stamp value used for issuing the guarantee. We the said bank do hereby declare and undertake that your claim under the guarantee shall not be affected by any deficiency or other defect in the stamp paper or its stamp value. We the said bank do hereby declare that our payments hereunder shall be made to you, free and clear of and without and deduction, reduction on account of any reasons including any and all present and future taxes, levies, charges of withholding whatsoever imposed or collected with respect thereto.

Notwithstanding anything contained hereinabove our liability under this guarantee is restricted to Rs. _____ (Rupees _____ only) and it shall remain in force up to and including _____ and shall be extended from time to time for such period as may be desired by M/S WAPCOS Limited on whose behalf this bank guarantee has been given.

Notwithstanding anything contained herein

- i) our liability under this guarantee shall not exceed Rs. _____ (Rupees _____ only) ;
- ii) This bank guarantee shall be valid upto _____ (**indicate a date two months after the probable date of completion**)
- iii) Our liability to make payment shall arise and we are liable to pay the guaranteed amount or any part thereof under this guarantee, only and only if you serve upon us a written claim or demand in terms of the guarantee on or before _____(**indicate a date three months after validity of guarantee**).

Dated this _____ day of _____ at _____

For & on behalf of Tenderer

ANNEXURE – II

FORMAT FOR AFFIDAVIT

I / We have submitted a bank guarantee for the work (Name of work) Agreement No.

_____ Dated _____ from _____ (Name of the Bank with full address) to the WAPCOS Limited, New Delhi with a view to seek exemption from payment of performance guarantee in cash. This Bank guarantee expires on

_____ I / We undertake to keep the validity of the bank guarantee intact by getting it extended from time to time at my / our own initiative up to a period of _____ months after the recorded date of completion of the work or as directed by the WAPCOS.

I / We also indemnify the WAPCOS against any losses arising out of non-encasement of the bank guarantee if any.

(Deponent)
Signature of Contractor

Note : The affidavit is to be given by the Executants before a first class Magistrate.
(To be submitted in original by bidder on non-judicial stamp paper of Rs. 100/- (Rupees Hundred only) attached by Notary Public)

ANNEXURE – III
FORMAT OF RESUME OF PROPOSED PERSONNEL

The bidder shall provide all the information requested below:

Position		
Personnel information	Name	Date of birth
	Professional qualifications	
Present employment	Name of Employer	
	Address of Employer	
	Telephone	Contact (manager / personnel officer)
	Fax	E-mail
	Job title	Years with present Employer

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

From	To	Company, Project , Position, and Relevant Technical and Management Experience
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Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience, and I am available to undertake the assignment in case of an award. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the Client, and/or sanctions by the Bank.

{ day/month/year }

Name of Personnel

Signature

Date

{ day/month/year }

**Name of authorized Representative of
the Contractor**

Signature

Date

ANNEXURE-IV

SAFETY CODES

1. Suitable scaffolds should be provided for workmen for all works that cannot safely be done from the ground, or from solid construction except such short period work as can be done safely from ladders. When a ladder is used, an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well suitable footholds and hand-hold shall be provided on the ladder and the ladder shall be given an inclination not steeper than ¼ to 1(¼ horizontal and 1 vertical).
2. Scaffolding of staging more than 3.6 m (12ft.) above the ground or floor, swung or suspended from an overhead support or erected with stationary support shall have a guard rail properly attached or bolted, braced and otherwise secured at least 90 cm. (3ft.) high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such opening as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
3. Working platforms, gangways and stairways should be so constructed that they should not sag unduly or unequally, and if the height of the platform or the gangway or the stairway is more than 3.6 m (12ft.) above ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened as described in (2) above.
4. Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of person or materials by providing suitable fencing or railing whose minimum height shall be 90 cm. (3ft.).
5. Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9m. (30ft.) in length while the width between

side rails in rung ladder shall in no case be less than 29 cm. (11½") for ladder up to and including 3 m. (10 ft.) in length. For longer ladders, this width should be increased at least ¼" for each additional 30 cm. (1 foot) of length. Uniform step spacing of not more than 30 cm shall be kept. Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites or work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall provide all necessary fencing and lights to protect the public from accident and shall be bound to bear the expenses of defense of every suit, action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit; action or proceedings to any such person or which may, with the consent of the contractor, be paid to compensate any claim by any such person

6. (a) Excavation and Trenching - All trenches 1.2 m. (4ft.) or more in depth, shall at all times be supplied with at least one ladder for each 30 m. (100 ft.) in length or fraction thereof, Ladder shall extend from bottom of the trench to at least 90 cm. (3ft.) above the surface of the ground. The side of the trenches which are 1.5 m. (5ft.) or more in depth shall be stepped back to give suitable slope or securely held by timber bracing, so as to avoid the danger of sides collapsing. The excavated materials shall not be placed within 1.5 m. (5ft.) of the edges of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances, undermining or undercutting shall be done.

(b) Safety Measures for digging bore holes:-

- i. If the bore well is successful, it should be safely capped to avoid caving and collapse of the bore well. The failed and the abandoned ones should be completely refilled to avoid caving and collapse;
- ii. During drilling, Sign boards should be erected near the site with the address of the drilling contractor and the Engineer in-charge of the work;
- iii. Suitable fencing should be erected around the well during the drilling and after the installation of the rig on the point of drilling, flags shall be put 50m all-round the point of drilling to avoid entry of people;
- iv. After drilling the bore well, a cement platform (0.50m x 0.50m x 1.20m) 0.60m above ground level and 0.60m below ground level should be constructed around the well casing;
- v. After the completion of the bore well, the contractor should cap the bore well properly by welding steel plate, cover the bore well with the drilled wet soil and fix thorny shrubs over the soil. This should be done even while repairing the pump;
- vi. After the bore well is drilled the entire site should be brought to the ground level.

7. Demolition - Before any demolition work is commenced and also during the progress of the work,

- (i) All roads and open areas adjacent to the work site shall either be closed or suitably protected.
- (ii) No electric cable or apparatus which is liable to be a source of danger or a cable or apparatus used by the operator shall remain electrically charged.
- (iii) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.

8. All necessary personal safety equipment as considered adequate by the Engineer-in-Charge should be kept available for the use of the person employed on the site and maintained in a condition suitable for immediate use, and the contractor should take adequate steps to ensure proper use of equipment by those concerned. The following safety equipment shall invariably be provided.

- (i) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
- (ii) Those engaged in white washing and mixing or stacking of cement bags or any material which is injurious to the eyes, shall be provided with protective goggles.
- (iii) Those engaged in welding works shall be provided with welder's protective eye shields.
- (iv) Stone breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
- (v) When workers are employed in sewers and manholes, which are in active use, the contractors shall ensure that the manhole covers are opened and ventilated at least for an hour before the workers are allowed to get into the manholes, and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public. In addition, the contractor shall ensure that the following safety measure are adhered to :-
 - (a) Entry for workers into the line shall not be allowed except under supervision of the JE or any other higher officer.
 - (b) At least 5 to 6 manholes upstream and downstream should be kept open for at least 2 to 3 hours before any man is allowed to enter into the manhole for working inside.
 - (c) Before entry, presence of Toxic gases should be tested by inserting wet lead acetate paper which changes colour in the presence of such gases and gives indication of their presence.
 - (d) Presence of Oxygen should be verified by lowering a detector lamp into the manhole. In case, no Oxygen is found inside the sewer line, workers should be sent only with Oxygen kit.
 - (e) Safety belt with rope should be provided to the workers. While working inside the manholes, such rope should be handled by two men standing outside to enable him to be pulled out during emergency.
 - (f) The area should be barricaded or cordoned off by suitable means to avoid mishaps of any kind. Proper warning signs should be displayed for the safety of the public whenever cleaning works are undertaken during night or day.
 - (g) No smoking or open flames shall be allowed near the blocked manhole being cleaned.
 - (h) The malba obtained on account of cleaning of blocked manholes and sewer lines should be immediately removed to avoid accidents on account of slippery nature of the malba.
 - (i) Workers should not be allowed to work inside the manhole continuously. He should be given rest intermittently. The Engineer-in-Charge may decide the time up to which a worker may be allowed to work continuously inside the manhole.
 - (j) Gas masks with Oxygen Cylinder should be kept at site for use in emergency.
 - (k) Air-blowers should be used for flow of fresh air through the manholes. Whenever called for, portable air blowers are recommended for ventilating the manholes. The Motors for these shall be vapour proof and of totally enclosed type. Non sparking gas engines also could be used but they should be placed at least 2 metres away from the opening and on the leeward side protected from wind so that they will not be a source of friction on any inflammable gas that might be present.
 - (l) The workers engaged for cleaning the manholes/sewers should be properly trained before allowing to work in the manhole.
 - (m) The workers shall be provided with Gumboots or non-sparking shoes bump helmets and gloves non sparking tools safety lights and gas masks and portable air blowers (when necessary). They must be supplied with barrier cream for anointing the limbs before working inside the sewer lines.

- (n) Workmen descending a manhole shall try each ladder stop or rung carefully before putting his full weight on it to guard against insecure fastening due to corrosion of the rung fixed to manhole well.
- (o) If a man has received a physical injury, he should be brought out of the sewer immediately and adequate medical aid should be provided to him.
- (p) The extent to which these precautions are to be taken depend on individual situation but the decision of the Engineer-in-Charge regarding the steps to be taken in this regard in an individual case will be final.

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

- (q) No paint containing lead or lead products shall be used except in the form of paste or readymade paint.
- (r) Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint is dry rubbed and scrapped.
- (s) Overalls shall be supplied by the contractors to the workmen and adequate facilities shall be provided to enable the working painters to wash during and on the cessation of work.

9. The Contractor shall not employ women and men below the age of 18 on the work of painting with product containing lead in any form, wherever men above the age of 18 are employed on the work of lead painting, the following principles must be observed for such use:

- (i) White lead, sulphate of lead or product containing these pigment, shall not be used in painting operation except in the form of pastes or paint ready for use.
- (ii) Measures shall be taken, wherever required in order to prevent danger arising from the application of a paint in the form of spray.
- (iii) Measures shall be taken, wherever practicable, to prevent danger arising out of from dust caused by dry rubbing down and scraping.
- (iv) Adequate facilities shall be provided to enable working painters to wash during and on cessation of work.
- (v) Overall shall be worn by working painters during the whole of working period.
- (vi) Suitable arrangement shall be made to prevent clothing put off during working hours being spoiled by painting materials.
- (vii) Cases of lead poisoning and suspected lead poisoning shall be notified and shall be subsequently verified by medical man.
- (viii) WAPCOS may require, when necessary medical examination of workers.
- (ix) Instructions with regard to special hygienic precautions to be taken in the painting trade shall be distributed to working painters.

10. When the work is done near any place where there is risk of drowning, all necessary equipment's should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision, should be made for prompt first aid treatment of all injuries likely to be obtained during the course of the work.

11. Use of hoisting machines and tackle including their attachments, anchorage and supports shall conform to the following standards or conditions:-

- (i) (a) These shall be of good mechanical construction, sound materials and adequate strength and free from patent defects and shall be kept repaired and in good working order.
- (b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength, and free from patent defects.
- (ii) Every crane driver or hoisting appliance operator, shall be properly qualified and no person under the age of 21 years should be in charge of any hoisting machine including any scaffolding winch or give signals to operator.
- (iii) In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load. In case of a hoisting machine having a variable safe working load each safe working load and the condition under which it is applicable shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.
- (iv) In case of departmental machines, the safe working load shall be notified by the Electrical Engineer-in-Charge. As regards contractor's machines the contractors shall notify the safe working load of the machine to the Engineer-in-Charge whenever he brings any machinery to site of work and get it verified by the Electrical Engineer concerned.

12. Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards. Hoisting appliances should be provided with such means as will reduce to the minimum the risk of accidental descent of the load. Adequate precautions should be taken to reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, wearing apparel, such as gloves, sleeves and boots as may be necessary should be provided. The worker should not wear any rings, watches and carry keys or other materials which are good conductors of electricity.

13. All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work.

14. These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at work spot. The person responsible for compliance of the safety code shall be named therein by the contractor.

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

16. Notwithstanding the above clauses from (1) to (15), there is nothing in these to exempt the contractor from the operations of any other Act or Rule in force in the Republic of India.

For & on behalf of Tenderer

ANNEXURE – IV

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

1. APPLICATION

These rules shall apply to all buildings and construction works in which twenty or more workers are ordinarily employed or are proposed to be employed in any day during the period during which the contract work is in progress.

2. DEFINITION

Work place means a place where twenty or more workers are ordinarily employed in connection with construction work on any day during the period during which the contract work is in progress.

3. FIRST-AID FACILITIES

- (i) At every work place, there shall be provided and maintained, so as to be easily accessible during working hours, first-aid boxes at the rate of not less than one box for 150 contract labour or part thereof ordinarily employed.
- (ii) The first-aid box shall be distinctly marked with a red cross on white background and shall contain the following equipment:-
 - (a) For work places in which the number of contract labour employed does not exceed 50- Each first-aid box shall contain the following equipment's:- 1. 6 small sterilized dressings.

2. 3 medium size sterilized dressings.
3. 3 large size sterilized dressings.
4. 3 large sterilized burn dressings.
5. 1 (30 ml.) bottle containing a two per cent alcoholic solution of iodine.
6. 1 (30 ml.) bottle containing Sal volatile having the dose and mode of administration indicated on the label.
7. 1 snakebite lancet.
8. 1 (30 gms.) bottle of potassium permanganate crystals.
9. 1 pair scissors.
10. 1 copy of the first-aid leaflet issued by the Director General, Factory Advice Service and Labour Institutes, Government of India.
11. 1 bottle containing 100 tablets (each of 5 gms.) of aspirin.
12. Ointment for burns.
13. A bottle of suitable surgical antiseptic solution

(b) For work places in which the number of contract labour exceed 50. Each first-aid box shall contain the following equipment's.

1. 12 small sterilized dressings.
2. 6 medium size sterilized dressings.
3. 6 large size sterilized dressings.
4. 6 large size sterilized burn dressings.
5. 6 (15 gms.) packets sterilized cotton wool.
6. 6. 1 (60 ml.) bottle containing a two per cent alcoholic solution iodine.
7. 1 (60 ml.) bottle containing Sal volatile having the dose and mode of administration indicated on the label
8. 1 roll of adhesive plaster.
9. 1 snake bite lancet.
10. 1 (30 gms.) bottle of potassium permanganate crystals.
11. 1 pair scissors.
12. 1 copy of the first-aid leaflet issued by the Director General Factory Advice Service and Labour Institutes /Government of India.
13. A bottle containing 100 tablets (each of 5 gms.) of aspirin.
14. Ointment for burns.
15. A bottle of suitable surgical antiseptic solution.

(iii) Adequate arrangements shall be made for immediate recoupment of the equipment when necessary

(iv) Nothing except the prescribed contents shall be kept in the First-aid box.

(v) The first-aid box shall be kept in charge of a responsible person who shall always be readily available during the working hours of the work place.

(vi) A person in charge of the First-aid box shall be a person trained in First-aid treatment in the work places where the number of contract labour employed is 150 or more.

(vii) In work places where the number of contract labour employed is 500 or more and hospital facilities are not available within easy distance from the works. First-aid posts shall be

established and run by a trained compounder. The compounder shall be on duty and shall be available at all hours when the workers are at work.

- (viii) Where work places are situated in places which are not towns or cities, a suitable motor transport shall be kept readily available to carry injured person or person suddenly taken ill to the nearest hospital.

4. DRINKING WATER

- (i) In every work place, there shall be provided and maintained at suitable places, easily accessible to labour, a sufficient supply of cold water fit for drinking.
- (ii) Where drinking water is obtained from an Intermittent public water supply, each work place shall be provided with storage where such drinking water shall be stored.
- (iii) Every water supply or storage shall be at a distance of not less than 50 feet from any latrine drain or other source of pollution. Where water has to be drawn from an existing well which is within such proximity of latrine, drain or any other source of pollution, the well shall be properly chlorinated before water is drawn from it for drinking. All such wells shall be entirely closed in and be provided with a trap door which shall be dust and waterproof.
- (iv) A reliable pump shall be fitted to each covered well, the trap door shall be kept locked and opened only for cleaning or inspection which shall be done at least once a month.

5. ANTI-MALARIAL PRECAUTIONS

The contractor shall at his own expense, conform to all anti-malarial instructions given by the Engineer-in-Charge including the filling up of any borrow pits which may have been dug by him.

6. The above rules shall be incorporated in the contracts and in notice inviting tenders and shall form an integral part of the contracts.

7. AMENDMENTS

Government may, from time to time, add to or amend these rules and issue directions - it may consider necessary for the purpose of removing any difficulty which may arise in the administration thereof.

For & on behalf of Tenderer

SECTION-VI

ELEGIBILITY CRITERIA AND IT, S FROMS:

FORM 'A'

LETTER OF TRANSMITTAL

To
Chief Executive Director (Env & CM)
WAPCOS Limited
Environment Division
76-C, Sector -18,
Gurgaon -122015

Subject: Submission of bids for the work of “Annual Repair, Maintenance and Operation (AMRO) Works of Civil, Electrical and MEP Services on Lumpsum Service Charges on Deposit Work Basis for ESIS Hospital and Staff Quarters at Kandivali, Mumbai (Package-3)”

Sir,

Having examined the details given in press notice and bid document for the above work, I/we hereby submit the relevant information.

1. I/we hereby certify that all the statement made and information supplied in the enclosed forms A to H and accompanying statement are true and correct.
2. I/we have furnished all information and details necessary for eligibility and have no further pertinent information to supply.
3. I/we submit the following certificates in support of our suitability, technical knowledge and capability for having successfully completed the following eligible similar works:

Name of work	Certificate from

Certificate:

It is certified that the information given in the enclosed technical bid are correct. It is also certified that I/we shall be liable to be debarred, disqualified/ cancellation of enlistment in case any information furnished by me/us found to be incorrect.

Enclosures:

Seal of bidder

Date of submission:
Bidder(s)

Signature(s) of

FORM 'B'

FINANCIAL INFORMATION

1. Financial Analysis: Details to be furnished duly supported by figures in balance sheet/ profit & loss account for the last three years duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Copies to be attached).

Years	Gross Annual Turnover	Profit/Loss (After Tax)
2022-2023		
2021-2022		
2020-2021		
2019-2020		
2018-2019		

**Signature of Chartered Accountant
Bidder(s).**
(UDIN Number and Seal)

Signature of
(with Seal)

FORM C
BANKERS' CERTIFICATE FROM A SCHEDULED COMERCIAL BANK

To

Chief Executive Director (Envt & CM)
WAPCOS Limited
Environment Division
76-C, Sector -18,
Gurgaon -122015

Subject: Submission of bids for the work of “Annual Repair, Maintenance and Operation (AMRO) Works of Civil, Electrical and MEP Services on Lumpsum Service Charges on Deposit Work Basis for ESIS Hospital and Staff Quarters at Kandivali, Mumbai (Package-3).”

This is to certify that to the best of our knowledge and information that

M/s..... having marginally noted address, as a
Customer of our bank are/is respectable and can be treated as good for any engagement upt o a
limit of Rs.....

(Rupees.....
...)

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

(Signature) For the Bank
(Email id of Bank)

NOTE:

1. Bankers Certificates should be on letter head of the Bank, addressed to tendering authority.
2. In case of Partnership firm, certificate should include names of all partners as recorded with the Bank.

FORM D

**DETAILS OF ELIGIBLE SIMILAR NATURE OF WORKS COMPLETED DURING
LAST FIVE YEARS**

Sl. No	Name of Project & Location	Owner or sponsoring organization	Cost of work in crores of rupees	Date of Commencement as per contract	Stipulated date of completion	Actual date of completion	Name and address/ telephone number of officer to whom reference may be made
1							
2							
3							

(Signature of the Bidder)

Note: This should be accompanied by Completion certificate and work order along with bill of quantities

FORMAT FOR POWER OF ATTORNEY FOR SIGNING OF PROPOSAL

FOR AUTHORIZED SIGNATORY
(On Rs. 100 stamp paper)

Know all men by these presents, we
..... (Name of the
Tenderer and address of their registered office) do hereby constitute, appoint and authorize Mr
/Ms.....(name and residential address of
Power of Attorney holder) who is presently employed with us and holding the
position
of.....
... as our attorney, to do in our name and on our behalf, all such acts, deeds and things
necessary in connection with or incidental to our Bid for the Project and submission of all
documents and providing information / responses to
_____, representing us in all matters before _____, and generally dealing
with
_____ in all matters in connection with our proposal for the said Project. We
hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to
this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall
and shall always be deemed to have been done by us.

FORM “E” (On letter head)
STRUCTURE & ORGANISATION

S.No.	Particulars	Details Submitted by Bidder
1.	Name & address of the Bidder:	
2.	Telephone no./Mobile No./Telex no./Fax no.	
3.	Email id for communication	
4.	Legal status of the bidder (attach copies of original document defining the legal status) (a) An Individual (b) A proprietary firm (c) A firm in partnership (d) A limited company or Corporation	
	Particulars of registration with various Government Bodies (attach attested photocopy)	
5.	Organization/Place of Registration 1. 2. 3.	Registration No.
6.	Names and titles of Directors & Officers with designation to be concerned with this work along with their contact number and Email id	
7.	Designation of individuals authorized to act for the organization	
8.	Has the bidder, or any constituent partner in case of partnership firm Limited Company/ Joint Venture, ever been convicted by the court of law? If so, give details.	
9.	Banker of Agency with full address (Attach bankers certificate of account maintenance for the last two years) Telephone number of banker	

10	PAN of the firm	
11	Statutory requirements: a) Whether the firm/company is registered with labour Department of State Government/UT Administration b) Whether the firm/company is registered under the employees State Insurance Act, 1948 c) Whether the firm/company is registered under the Employees Provident Fund and Miscellaneous Provision Act, 1952.	
12.	ESI, P.F, GST, Labour Registration No.	
13.	GST Paid last receipt	
14	Affidavit by the firms to pay minimum rates wages to the workers engaged as per applicable order Government CLC and to enhance the rates, as and when it is revised.	
15.	Undertaking by the firm to provide clearance from police authorities in respect of workers.	
16.	Any other information considered necessary but not included above.	

Signature of Bidder(s)**Name:****Seal (firm/company)****Date:****Place:****(Note all the supporting documents shall be attached with Bid documents)**

FORM-F

**Format of Undertaking to be furnished on Company Letter Head with regard to
Blacklisting/Non-Debarment by the contracting Agency**

Name of work:

Ref: Tender No.....dated.....

To

Chief Executive Director (Env't & CM)
WAPCOS Limited
Environment Division
76-C, Sector -18,
Gurgaon -122015

This is to certify that we have taken the cognizance of Blacklisting Policy of WAPCOS Limited. Further, we hereby confirm and declare that we, M/s....., is not blacklisted/de-registered/debarred by any Government department/Public Sector Undertaking/Private Sector/or any other agency for which we have Executed/undertaken the works/services during the last 5 years.

For.....
Authorized Signatory
Date:-

FORM-G

FORMAT FOR UNDERSTANDING THE PROJECT SITE

(on Bidder Letter Head)

To

Chief Executive Director (Env & CM)
WAPCOS Limited
Environment Division
76-C, Sector -18,
Gurgaon -122015

Subject: Undertaking of the Site

Sir,

I/we hereby certify that I/we have examined & inspected the site & its surrounding satisfactorily, where the project is to be executed as per the scope of works. I/ We are well aware about the Location and conditions etc.

I / We hereby submit our BID considering above all facts gathered during site visit and each & every aspect have been considered in the Quoted cost of the project as per BOQ

Yours faithfully,

Date: (Signature, name and designation of the Authorized signatory)

Place:

Name and seal of Bidder

FORM-H

FORMAT FOR NO DEVIATION CERTIFICATE

[To be submitted on Bidder's Letter Head]

To,

Chief Executive Director (Env & CM)
WAPCOS Limited
Environment Division
76-C, Sector -18,
Gurgaon -122015

Subject: No Deviation Certificate

Dear Sir,

With reference to above this is to confirm that as per Tender conditions we have visited site before submission of our Offer and noted the job content and site condition etc. We also confirm that we have not changed/modified the above tender document and in case of observance of the same at any stage it shall be treated as null and void.

We hereby also confirm that we have not taken any deviation from Tender Clause together with other reference as enumerated in the above referred Notice Inviting Tender and we hereby convey our unconditional acceptance to all terms & conditions as stipulated in the Tender Document.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null and void.

Thanking you,

Yours faithfully,

Date: (Signature, name and designation of the Authorized signatory)

Place:

Name and seal of Bidder

FORM-I

CONSENT LETTER FOR INTEGRITY PACT

To,

Chief Executive Director (Env't & CM)
WAPCOS Limited
Environment Division
76-C, Sector -18,
Gurgaon -122015
Sub: Integrity Pact

Dear Sir,

I/We acknowledge that WAPCOS is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that **THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE** of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by WAPCOS. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, WAPCOS shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Yours faithfully,

Date:

(Signature, name and designation
of the Authorized signatory)

Place:

Name and seal of Bidder

**FORMAT FOR INTEGRITY PACT
(On Rs. 100 stamp paper)**

This Integrity Agreement is made at on this day of 20.....

BETWEEN

WAPCOS Limited, New Delhi (Hereinafter referred as the „**Principal/Owner**“, which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

.....
(Name and Address of the Individual/firm/Company) through
..... (Hereinafter referred to as the
(Details of duly authorized signatory) **“Bidder/Contractor”** and which expression shall unless
repugnant to the meaning or context hereof include its successors and permitted assigns)

Preamble

WHEREAS the Principal / Owner has floated the Tender (NIT No.)
(hereinafter referred to as “Tender/Bid”) and intends to award, under laid down organizational
procedure, contract for..... (Name of work)
hereinafter referred to as the “Contract”.

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land,
rules, regulations, economic use of resources and of fairness/transparency in its relation with its
Bidder(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this
Integrity Agreement (hereinafter referred to as “Integrity Pact” or “Pact”), the terms and
conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and
Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties
hereby agree as follows and this Pact witnesses as under:

Article 1: Commitment of the Principal/Owner

(1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to
observe the following principles:

- (a) No employee of the Principal/Owner, personally or through any of his/her family
members, will in connection with the Tender, or the execution of the Contract, demand,
take a promise for or accept, for self or third person, any material or immaterial benefit
which the person is not legally entitled to.
- (b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and
reason. The Principal/Owner will, in particular, before and during the Tender process,
provide to all Bidder(s) the same information and will not provide to any Bidder(s)
confidential / additional information through which the Bidder(s) could obtain an
advantage in relation to the Tender process or the Contract execution.
- (c) The Principal/Owner shall endeavour to exclude from the process any person, whose
conduct in the past has been of biased nature.

(2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article 2: Commitment of the Bidder(s)/Contractor(s)

(1) It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the WAPCOS all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.

(2) The Bidder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:

(a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.

(b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.

(c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

(d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.

(e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.

(3) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

(4) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the WAPCOS interests.

(5) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

(1) If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days" notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.

(2) Forfeiture of EMD/Performance Guarantee/Security Deposit: If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.

(3) Criminal Liability: If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

(1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.

(2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.

(3) If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely

Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors

(1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Subcontractors/sub-vendors

(2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.

(3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6- Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded. If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, WAPCOS.

Article 7- Other Provisions

(1) This Pact is subject to Indian Law, place of performance and jurisdiction is the Head quarters of the Principal/Owner, who has floated the Tender.

(2) Changes and supplements need to be made in writing. Side agreements have not been made.

(3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.

(4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

(5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.

Article 8- Legal and Prior Rights

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses

.....
(For and on behalf of Principal/Owner)

.....
(For and on behalf of Bidder/Contractor)

WITNESSES:

1.
(signature, name and address)

2.
(signature, name and address)

Place:

Dated:

FORM-J

Affidavit

Payment of Wages

- Contractor through Bank or ECS or online transfer to his bank account shall pay wages due to every worker to him direct.
- All wages shall be paid through Bank or ECS or online transfer
- It shall be the duty of the contractor to ensure the disbursement of wages through bank account of labour
- The contractor shall obtain from the authorized representative of the Engineer-in-charge as the case maybe, a certified under his signature at the end of the entire in the “Register of wages” or the “Wages cum-Muster Roll” as the case may be in the following form:

“Certified that the amount shown in column no.....has been paid to the workman concerned through bank account of labour on.....at.....”

The field units may also pursue with contractors of the existing contract to make payment to the labour by the contractor through Bank or ECS or online transfer also.

FORM-K
UNDERTAKING
(Rule 144(xi) in the General Financial Rules (GFRs), 2017

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I hereby certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and Is eligible to be considered.

Date

Place

Signature, name and designation of the Authorized signatory)
Name and Seal of the bidder

SECTION-VII

SCOPE OF WORK

The scope of work includes “Annual Repair, Maintenance and Operation (AMRO) Works of Civil, Electrical and MEP Services on Lumpsum Service Charges on Deposit Work Basis for ESIS Hospital and Staff Quarters at Kandivali, Mumbai (Package-3)” for the year of 2024-25. ESIC/WAPCOS reserves the right to add or delete any dispensary/ office in the below mentioned list.

S. No.	Name of the Buildings/Premises	Location
1	ESI Hospital and Staff Quarters	Mumbai, Maharashtra.

For carrying out comprehensive Repairs & Maintenance of its existing infrastructure comprising of Buildings & Services including Equipment and Plants rendering specialized services:

- Annual Repairs and Maintenance & Operations (ARMO) of Buildings & Services
- Day to day Maintenance of Buildings & Services
- Day to day Operation & Maintenance of Equipment and Plants rendering specialized services
- The contractor will carry out all preventive maintenance / Checks as per CPWD Specification and works procedure.

After a comprehensive condition survey of the existing infrastructure i.e. Buildings, Services, Equipment is & Plants including ancillary structures existing inside the premises/complex shall be carried out by them to assess the maintenance needs for each component of the infrastructure for restoring and sustaining the utility of the facilities.

a) NATURE OF THE WORK AS REQUIRE: ARM OF CIVIL WORKS

All Carriage of material by mechanical transport including loading and uploading with earth excavation of all kind of soil. Clearing outside periphery of premises removal and Disposal of rubbish/moorum/ malba/similar waste material by local transport including loading, unloading and transportation and proposal of following requirements also included in the estimate bellow:

- Providing & fixing of Items as per the Requirement as per the CPWD and Government guidelines.
- Portland Cement (OPC-43 grade), White Cement, Coarse sand (zone III), Fine sand (zone IV), Common burnt clay F.P.S. bricks tile class designation 10, Water proofing materials, Stone Aggregate (Single size) : 20 mm & 10mm nominal size, Bleaching powder, Ceramic Glazed Tiles 1st quality 300 x 300 mm in all shades , G.I. Pipes Class/PVC, G.I. Tees (Equal) /PVC, G.I. Elbow/PVC, G.I. Nipple/PVC, S.C.I. Single equal tee, S.C.I. Plain Bend, S.C.I. Plain shoe Bend, Mild Steel Clamps, Stainless steel screws etc.
- Routine Maintenance Work as require:
- Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine; Cleaning of terrace/loft water storage; Hacking of CC flooring including cleaning for surface etc.
- Dismantling G.I. pipe including stacking; Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab; Painting Steel work with Deluxe Multi Surface Paint to give an even

shade; Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames.

- Day to day Repair & Maintenance of building.
- Plumbing Work, Sanitary Work, Carpenter & Masonry Work
- Aluminum & Steel Repair Work.
- To keep sewer line functional.
- Work of Horticulture / landscaping etc.
- Any Other Work assigned by WAPCOS/Medical Superintendent/Engineer (ESIC) as per respective jurisdiction of buildings.
- Attending blockage of drain pipes, gully trap, and manholes. Water supply, Sanitary Storm Drainage & Sewage Disposal work.
- Plumbing related maintenance work related to pump house, attending the leakage from taps and valves, sanitary fixtures, fixtures for water supply etc.
- Occasional replacement of water supply fittings/sanitary fixtures on need basis.
- Periodical cleaning of overhead tanks, underground tanks etc. The date of cleaning to be painted on the surface.
- Any other such works directly related to civil maintenance of the Buildings.
- Providing of manpower for the civil Maintenance such as plaster repair, painting, flooring repair, etc.
- Horticulture Development and Maintenance in the entire premises along with temporary planters in the building common areas.

b) NATURE OF THE WORK AS REQUIRE: ARM OF ELECTRICAL WORKS

- Wiring for light point/ fan point/ exhaust fan point/ call bell point
- Re Wiring for light point/ fan point/ exhaust fan point/ call bell point.
- Wiring for circuit/ submain.
- Installation of exhaust fan
- Earthing with G.I. earth pipe and building loop earthing as per IS 3043
- Providing Conduit, Socket(6A/16A), MCB, RCCB, ISOLATOR, Lugs, LED light, Ceiling fan etc
- Repairing and re-winding of A.C ceiling fan and AC MAINTANANCE.
- Replacement ball/ baring /bush of A.C Ceiling fans and Replacement of fan condenser.
- Supply & Refilling of FIRE FIGHTING ABC Powder extinguisher and CO2 extinguisher.
- Maintenance of panel main including VCB/ACB and other electrical equipment with painting once per year.
- Street light repair and installation.
- Comprehensive/Annual maintenance of DG set including replacement of engine oil ,coolant, oil filter, mobile filter, air filter, and other as per site requirement.
- Annual Servicing of substation (AB Switch, Transformer, fuse unit and painting).
- Annual pump service.
- Operation of Substation, LT & HT Panels, Pump Operation, D.G. Set, Fire Fighting Services, Lift Operation, Transformer, Electrical Panel.
- Electrical Fitting and Fixtures i.e. Lights, Fans, Switches, Sockets, Wirings etc.

- Any Other Work assigned by WAPCOS/ Medical Superintendent/Engineer as per respective jurisdiction of buildings.

Detailed scope of work but not limited to are:

- Operation and Routine maintenance of 11/440 kV Substations, Co-ordination with WAPCOS/ESIC in troubleshooting.
- Operation & Maintenance of LT power distribution network etc inside the ESIC premises.
- Operation & Maintenance of street lightning system/ other light system inside the ESIC premises.
- Operation & Maintenance of DG sets.
- Maintenance of Electrical system in Administrative building, intake well pump house, canteen , MGP, Fire Pump houses etc. This shall include routine maintenance works as well as planned preventive maintenance works & break down works.
- Assisting WAPCOS/ESIC officers in activities related with power distribution system, logging and retrieving data regarding power consumption and history. Taking energy meter readings of DG Sets installed by ESIC as well as various units inside ESIC building premises and recording the same in log books/registers.
- Logging of power consumption parameters and logging in substation registers. Recording all routine, preventive and breakdown maintenance details in substation registers including details of trouble/defect reported, root cause, action/rectification works done, time taken for repair/rectification works, spares/materials used etc.
- Upkeep, cleaning, grass cutting of substation building/switchyard and all electrical rooms, Lift machine rooms, generator rooms, Bus riser cabins etc. at regular interval.

All electrical work should be as per CPWD specification and Government of India Electrical inspectorate norms/Government of India norms.

C) Manpower Deployment:

- Deployment of adequate manpower like Electrician, Lift operator, DG Operator, Fire technician, Mason, Plumber, Carpenter, Helpers, Gardner, Sewer man, Supervisor etc. so as to ensure the Smooth functioning of the offices and maintenance of the buildings.
- Manpower attendance register is to be maintained properly. AEBAS attendance is compulsory for manpower.
- Uniform, ID Card, safety shoes and other tools have to be provided to each and every staff by the agency.
- The Working Staff should be professionally qualified and must be trained.
- Number of manpower to deploy at site will be increased or decreased as per the requirement of ESIC/WAPCOS Limited. Supervisor required to be deployed at site by Contractor at his own cost for smooth function of work at site. Similarly, quantities of

item mentioned in the BoQ shall be increased or decreased as per the site requirement or ESIC/WAPCOS directions.

- Manpower deployment schedule has to be finalized by the contractor as per the WAPCOS/ESIC Guidelines and in consultation with WAPCOS/ Medical Superintendent /Engineer as per respective jurisdiction of buildings.
- D. The contractor will carry out all preventive maintenance / Checks as per CPWD Specification and works procedure.
- E. The scope of work under this contract can be increased/decreased accordingly on same terms and condition as per prevailing DSR/ NDSR (at the time of extension, if any) with rates will be applicable in contract. Any increase in the scope of work shall be in terms of CVC guidelines and with prior approval of competent authority of ESIC
- G. Ensuring that the Contractor(s) implement required Health, Safety & Environmental (HSE) practices at the Construction Sites and they also comply with all statutory obligations relate to workmen deployed at the Site like compliance of Labour laws, minimum wages as per CLC, ESI, EPF & Bonus etc.
- H. Obtaining necessary Statutory Approvals / Permission / Clearances/ Certificates from the concerned Local Bodies & Statutory Authorities like Municipal Corporation, Town Planning Board, Electricity Board / Fire Department, State / Central Pollution Control Boards, State / Central Environmental Authorities etc. as applicable.
- I. Intimating ESIC/WAPCOS about any excess expenditure likely to be incurred over and above the approved estimate and also about possibility of Time Overrun as soon as it comes to its knowledge along with reasons and justifications thereof for necessary approvals from ESIC before committing / incurring the extra / additional expenditure.
- J. All emergent Repair and Maintenance related complaints shall be attended to within twenty four hours and routine/ non-emergent Repairs shall be attended within 48 hours, falling which a recovery of Rs. 1000.00 per event per day shall be made from the subsequent payments to the agency.
- K. In the event of failure to attend the complaint within 03 days, The Authorized officer of ESIC/WAPCOS will get the work done at the risk and cost of the agency and expenditure incurred will be deducted from the subsequent payment of the agency.
- L. The contractor shall compensate ESIC/WAPCOS for any losses incurred by theft, illegal or fraudulent Activities of the manpower deployed directly or through his manpower/contractor

- M. The agency has to maintain daily category wise attendance register recording the name and designation of staff & workers. The attendance shall be marked in register by agency's manager/engineer in charge at the start & closer of each shift. The engineer-in-charge or his authorized representative may check the physical attendance of any staff and worker at any time. If any staff and/or workers found absent without his substitute (duly authorized by agency) the penalty shall be recovered from the running or final bills of the agency as per rate quoted by the bidder.
- N. The engineer-in-charge or his authorized representative may check the performance on day to day basis and if it is found poor performance, penalty of Rs. 50,000 shall be imposed. In case of repetition, penalty shall be increased by 1.00 lakh to 1.5 lakh and after 3rd term contract may be terminated.
- O. Agency shall not execute any work without knowledge of WAPCOS/ESI . Any increase in the scope of work shall be in terms of CVC guidelines and with prior written approval of competent authority of ESIC then only consider else agency should bear cost and expenditure with his at risk and cost .

The integration between the functions of the various components based on Office building & its premises requirement is of paramount importance.

— ESIS Hospital and Staff Quarters Kandivali Mumbai.

Civil Work :

1. Cleaning of hospital premises (Jungle cleaning)
2. Debris Removal.
3. Water tank and pump room repairs.
4. False ceiling work.
5. Water tanks cleaning should be carried out twice a year.
6. Granite work.
7. Leakage in sewer lines.
8. Pump repairs.
9. Terrace water tank slab repair.
10. Substation leakage issue.
11. Staff Quarters Repair.
12. Horticulture works.

13. Silicon filling.
14. Trench for transformer.
15. Concertina foil above boundary wall.
16. Attending basis plumbing works on daily basis.
17. Day to day checks for water leakage.
18. Aluminium Partition.
19. Check for water losses.
20. Providing water tank 5000ltrs.

Electrical Work (Day to Day maintenance work) :

1. Engage Qualified well-trained manpower such as Electrician /Wireman etc. as per norms.
2. Daily basis attended of complaints and keeping the records of proper manner in complaint register/sheet.
3. Daily routine checkup of allied Electrical panels, Floor panels, DG sets UPS MCB RCCB lights power point sockets etc. each floor
4. Repairing servicing of ACB DG MCCB and prepare checklist separate for each item monthly/quarterly.
5. Cleaning of Electrical panel room DB box and other electrical equipment's & PPM monthly reports.
6. All material to be used for repair and maintenance shall be from the approved list or ISI mark and as per IE Rules.
7. Check any other fault if found rectify the same as and when occurred.
8. Attending the breakdown call as and when occurred and rectify the same to restore the services immediately.
9. Inspect all arms and fixtures for any signs of wear, damage, or corrosion.
10. Tighten any loose bolts or connections to ensure stability and safety.
11. Clean all arms and fixtures to remove any dirt, dust, or debris that may affect performance.
12. Check the wiring connections to ensure they are secure and free from any damage.
13. Test the functionality of each arm and fixture to ensure they are working properly.
14. Replace any faulty arms or fixtures with new ones as needed.
15. Follow all safety protocols and guidelines while performing maintenance work.
16. Document all maintenance activities and keep a record of any replacements or repairs made.
17. Conduct regular inspections and maintenance to ensure the longevity and efficiency of the lighting installation in the office building.

18. Adhere to all requirements and standards set forth by relevant authorities for electrical installations and maintenance work.

CAMC of Electrical Distribution System

Scope of Work:

The following details outline the Comprehensive Annual Maintenance Contract (CAMC) requirements for the HT VCB 630 Amp panel and associated electrical infrastructure. The contract encompasses both preventive and corrective maintenance, technical support, and necessary servicing as described below:

1. HT VCB 630 Amp Panel and LT side ACB's Breakers etc Maintenance:

Cleaning and Maintenance:

Clean dust and carbon deposits from the panel using CRC.

Remove old grease and apply new grease to relevant components.

Relay Testing and Calibration:

Test and calibrate relays as per manufacturer specifications.

Operational Checks:

Verify the freeness of rack-in and rack-out mechanisms.

Clean current-carrying components.

Check electrical and manual ON-OFF operations for all units.

Technical Support:

Provide monitoring, supervision, and immediate response to breakdowns.

Identify faults and perform necessary rectifications.

2. Substation Maintenance:

Equipment Servicing:

Comprehensive maintenance of the 11kV/433V substation, including all equipment and accessories:

DG Synchronizing Panel

Load Adjustment Panel

Capacitor Panel

LT Panels and Breaker Units

Lighting Panel

ACB

MCCB

Feeder Breaker

PHE Panels

HVAC LT Switch Panel

Major and Street Light Panels

All Equipment Panels

Perform Preventive Maintenance (PPM) servicing once per quarter for all equipment under CAMC.

Spare Parts:

Supply of any spare parts required to rectify defects at no additional cost.

3. Testing and Calibration:

Meters:

Service and calibrate all digital/analog meters once annually.

Replace defective meters without extra cost.

Provide a service report along with the bill.

Bus Ducts:

Perform preventive maintenance of substation bus ducts once every six months. Provide a service report with the bill.

Earth Pit Testing:

Conduct earth pit testing for a total of 138 pits twice a year.

Provide a service report with the bill.

4. Safety Measures:

Safety Equipment:

Supply and maintain safety equipment, including rubber mats and sustained covers for open cable ducts within the entire panel room.

Additional Notes:

Agencies interested in quoting for this CAMC must verify the job on-site before submitting their bid.

A detailed service report must be provided for all maintenance activities, including calibration, servicing, and testing, accompanied by the bill.

This technical report specifies the scope of work and requirements for the CAMC of the electrical distribution system. All services are to be conducted in compliance with relevant safety and operational standards.

AMC of Diesel Generator Sets

Scope of Work:

This technical report outlines the requirements for the Annual Maintenance Contract (AMC) of three Diesel Generator (DG) sets with the following specifications:

2 x 1500 KVA DG Sets

2 x 1050 KVA DG Set

The AMC includes regular servicing, inspections, and part replacements as detailed below:

1. Routine Maintenance:

Monthly Cleaning and Checking:

Perform monthly cleaning and inspection of DG sets to ensure optimal operation. This service is to be carried out by the Original Equipment Manufacturer (OEM) to maintain warranty and performance standards.

2. B Check (Scheduled Maintenance):

Components to be Checked and Serviced: Oil

Filter: Replace with a new filter.

Fuel Filter: Replace with a new filter.

Air Cleaner Filter: Replace with a new filter.

Coolant: Inspect and top up or replace as necessary. Ensure extra coolant is available.

K-Cleaner: Apply as required to maintain engine efficiency.

Canopy Hinges and Locks: Inspect and lubricate as needed to ensure proper function.

Battery Leads: Check and clean to ensure reliable electrical connections.

Engine Oil: Replace with specified grade. **Diesel**

Pipes: Inspect for leaks and integrity. **Pinon Lub Oil**

Filter: Replace with a new filter. **Valves:** Inspect and adjust as necessary.

Petronas Urania 1000 CH: Use for engine lubrication as specified.

Coolant Lub Oil: Check levels and condition; replace if necessary.

O-Ring: Inspect and replace any worn or damaged O-rings.

3. Additional Requirements:

Documentation:

Provide a detailed service report for each maintenance visit, including observations, actions taken, and any recommendations for further action.

Ensure that all service activities are documented and submitted with the billing.

4. Technical

Support:

Emergency

Support:

Provide immediate technical support for any breakdowns or issues identified outside of routine maintenance.

5. Safety and Compliance:

Standards:

All maintenance activities must comply with relevant safety regulations and manufacturer guidelines to ensure the reliable operation of DG sets.

Service

Overview:

Frequency of

Service:

Monthly /Weekly cleaning and inspection.

B Check as per the scheduled maintenance requirements. Only presence of Engineer

Scope of Service:

The contract includes all labor, materials, and spare parts required for the maintenance tasks listed above.

Replacement parts and fluids should be of OEM quality or equivalent.

Verification:

Agencies must ensure compliance with the service specifications and verify the condition of the DG sets on-site before quoting for the AMC.

Conclusion: This technical report details the scope of work for the AMC of the specified DG sets. The services include regular maintenance, component checks, and necessary replacements to ensure reliable performance and longevity of the equipment. The AMC provider is expected to adhere to the specified maintenance schedule and provide comprehensive service documentation.

Distribution Transformer

To ensure the optimal performance and longevity of the 3*1500 KVA distribution transformers, it is essential to conduct regular arm maintenance as part of the Annual

Maintenance Contract (AMC) job. Here are some key steps to include in the arm maintenance plan:

1. Visual Inspection: Regularly inspect the arms of the transformers for any signs of wear, corrosion, or damage. Look for loose connections, overheating, or any other abnormalities.
2. Cleaning: Keep the arms clean and free from dust, dirt, and debris. Use a soft brush or cloth to gently clean the surface of the arms.
3. Tightening Connections: Check and tighten all electrical connections to ensure they are secure. Loose connections can lead to overheating and potential damage to the transformers.
4. Lubrication: Apply lubricant to moving parts of the arms to reduce friction and wear. This will help maintain smooth operation and prevent premature failure.
5. Testing: Conduct regular testing of the arms to ensure they are functioning correctly. This may include insulation resistance testing, temperature monitoring, and load testing.
6. Repairs and Replacements: If any issues are identified during maintenance, promptly address them by repairing or replacing damaged components. This will help prevent further damage and ensure the transformers continue to operate efficiently.
7. Monthly routine Checkup of main Substation, LT Panels, etc. from Qualified manpower and if any finding observed in the same, then rectify the same at earliest for smooth function of Office.
8. All floors LT panels, ACB Breakers, etc. daily checkup.
9. All materials to be used for repair and replacement of parts shall be from the approved list and standard make.
10. All ACB Cleaning, Servicing and secondary testing once in year and as and when required.
11. All Electrical control panel cleaning, Dust removing and servicing rightness all bus bar & switchgear /cable termination once in year as and when required.
12. Check any fault if any indicated on any of the panels and rectify the same immediately.
13. Electrical audit conduction annually or as and when required and submitting report to ESIC, if any.

14. Maintaining the monthly service log book register at site properly.

15. Carrying out the transformer Test, Megger test etc. as and when required as per IE rules.

16. Attending the breakdown calls as and when occurred timely, without additional cost.

1. Civil services i/c internal & external maintenance of buildings, Toilets, and path drains works, boundary wall, etc.

- i. The work involves maintenance work of the buildings and area around the buildings up to fencing wall including office premises such as any kind of minor civil maintenance work of the building which includes earthwork, concrete work, carpentry work, painting, repairing etc.
- ii. Maintenance of water tank including cleaning, disinfection etc., water pipelines, drainage lines, toilet and washbasin, urinals, W/C, Choke up of flushing, replacement/alteration of components, rectifications of leakage and repair of the entire sewage system of the building etc.
- iii. Cleaning of the water tanks (O/H & U/G), rainwater lines, sewerage lines, manholes etc. of the complex at every three/ six-month duration and record of the same shall also be maintained and checked from the Administrator –in charge of the site. The contractor shall write with stencil on all the terrace

tanks, underground sump and overhead tanks with paint the dates of cleaning and the next due date for cleaning within 2 days of the completion of the cleaning operation.

- iv. Check all the areas for damaged false ceiling, floor carpet tiles, glazing, wooden doors, Aluminum doors & window and re-fix/replace/repair wherever necessary.
- v. Check the glass door & its functional aspects i.e. Floor springs, handle etc., and refix/repair/replace wherever necessary.
- vi. Removal of any landslides/ fallen trees or any part of structure there which is unwanted inside the fencing of premises/repairs thereof.

2. E & M Service's i/c Electrical Internal & External Installations., Street Lightsetc.

- i. To attend to day-to-day complaints of Internal E.I & Fans, compound lights, mainboards, DB's, compact rising mains etc. in following buildings, maintenance of complaint register and worker diaries.
- ii. Taking steps for preventing maintenance
 - (a) Checking of DB's mainboard, rising main etc.
 - (b) Checking and cleaning of fans and fittings twice a year or as required.
 - (c) Insulation test
 - (d) Earth test
- iii. Maintenance activities carried out as per schedule should be noted in the maintenance register. When tests are carried out the test result should be recorded with appropriate identification reference.
- iv. Annual Comprehensive maintenance Of Electrical Equipment's Like DG, LT/HT Panels Transformers etc.
- v. Supply and installation of various types of lights LED street lights etc.
- vi. Servicing and repairing of HVAC System as per requirements.
- vii. Repairing /servicing testing of different types of electric motors for smooth functioning.
- viii. Check all electrical installation and done PPM every month and prepare checklist report.

3. DG Sets & Sub Station.

- a. Type of work involves Operations, Testing and routine maintenance of sub- station equipment comprising of Transformers, HT Panel, LT Panel, RTCC Panel & Capacitor Panel etc. and DG Sets on 24x7 hours basis.
- b. The maintenance work shall be done as per Rules & specifications of CPWD and as per I.E. Rules and acts as amended up to date. The Contractor's personnel will be required to provide maintain the logbook and other records as prescribed by the department. All installations and Sub Station rooms shall be kept clean and safe from the risk of fire/theft/accidents and damage etc.

- c. The routine preventive maintenance of the Sub-Station equipment set shall be carried out during holiday/Sunday without disturbing the office working of the client department.
- d. General servicing of HT Panel & LT Panel. All LT panels and HT panels will be opened after getting shut down and cleaned thoroughly. All nuts & bolts of LT & HT panel, bus trucking shall be tightened. Proper insulating tape is to be used where the PVC insulation is worn out.
- e. Supply of Diesel Mobil oil etc. for the operation of D.G. Sets.
- f. The D.G. Set operator shall test the D.G. Set on no-load daily in the morning for 5 minutes run and D.G. Set shall operate in case of failure of normal electric supply from BSES.
- g. Cleaning of D.G. Set, checking of battery connection level of water in radiator & battery etc.

4. Horticulture, Mechanized Housekeeping, Pest Control etc.

- a. Residual Spraying for control of Mosquitoes, spiders etc. in the Lift Lobbies, AHU Rooms, Electrical Rooms, Basement, Toilets, Staircases, Common areas, All other Service Rooms, Sub-station, office space, residential spaces etc.
- b. Larvicidal Spraying for control of Mosquito & Fly Larvae in Drains Manholes in basement, substation, STP plant, in and around the building and Common areas etc.
- c. Daily spraying for control of General pests in and around the building, Lift lobbies, around the floor, Main Entrance etc.
- d. Rodent control for control of Rats, Mice etc. in the entire building including basement, Cable Trenches, Electrical Rooms, AHU Rooms, Substation, All the shafts' Rooms etc.
- e. Disinfestations services in and around the building.
- f. All horticultural works shall be undertaken in a manner so as to maintain a pleasing, tidy appearance.
- g. All trees, perennial plants and shrubs shall be maintained so that they are in healthy growth.
- h. All plants/trees and shrubs including vertical gardens etc., which have or appear to be dying, should be removed and replaced as soon as possible following removal of the dead plant(s) by a suitable replacement.

- i. All vertical gardens shall be maintained in a manner so as to maintain a pleasing, tidy appear.

LIST OF MAKE

Acceptable makes of materials to be used in the work are as follows. In case of non-availability of these makes, after the approval of WAPCOS/ESIC, the Contractor can use the alternative makes only BIS marked materials. Non BIS marked materials may be permitted by the WAPCOS only when BIS marked materials are not manufactured.

<u>WAPCOS LTD</u>		
<u>LIST OF APPROVED MAKES</u>		
<i>NOTE: THE CONTRACTOR SHALL QUOTE HIS RATES ON THE BASIS OF THE PRICE OF BEST QUALITY PRODUCT OF THE BRAND / MAKE. IN CASE ANY PARTICULAR BRAND OF ITEM IS NOT ACCEPTABLE TO THE CLIENT, THE CONTRACTOR SHALL SUPPLY ITEMS OF OTHER APPROVED BRANDS AT NO EXTRA COST.</i>		
SL. NO.	MATERIAL	MAKES/MANUFACTURER
A	CIVIL WORKS	
A 1	CONCRETE ADDITIVE	SIKA/ STP/CICO TECH LTD /PIDILITE/ FOSROC/FAIRMATE/ MC BOUCHEMIE/ CHOKESY/BASF
A 2	ADHESIVE FOR DOOR WORK	FEVICOL/VAMICOL/DUNLOP
A 3	DASH FASTENERS	HILTI/ FISCHER/ BOSCH
A 4	DOOR LOCKS / LATCHER	GODREJ/ HARRISON/ LINK/ PLAZA/ GOLDEN
	ALUMINUM SECTIONS	JINDAL/ HINDALCO/ INDALCO
A 5	FIXTURES/FITTINGS FOR ALUMINUM DOORS AND WINDOWS	EVERLITE / ARGENT/ CLASSIC/ CROWN/ EARL BIHARI/ SIGMA/ BRASSES/ BUSH
A 6	DASH FASTNER	HILTI/ FISHER/ CANON
A 7	FRP CHAJJA & DOORS	FIBERWAYS/ FIBRE ENGINEER
A8	BITUMASTIC FIBRE BOARD	SHALIMAR TAR PRODUCT/FOSROC/BASF
A 9	EXPANSION JOINT SYSTEM	HERCULES / J. SONS/KANTAFLEX
A 10	FIRE DOORS	NAVAIR/ SHAKTI - MET DOR/ GODREJ
A 11	FLUSH DOOR SHUTTERS	DURO/GREENPLY/CENTURY/ NATIONAL PLYWOOD/ KITPLY

A 12	STAINLESS STEEL HARDWARE	ARKAY/ GODREJ/ D-LINE/ CARL-F
A 13	LAMINATES	DURO/ CENTURY/ GREENLAM/ FORMICA/ DECOLAM/ EURO
A 14	PLYWOOD/ BLOCKBOARD/ PLY BOARD	DURO/ GREENPLY/CENTURY/ KITPLY/ GREENLAM/ NOVAPAN/ MARRINO/ GREENPLY/ EURO
A 15	PRE- LAMINATED PARTICLE BOARD	ANCHOR/ NOVAPAN/ CENTURY/ GREEN PLY/ARCHIDPLY/ KITLAM
A 16	PVC CONTINUOUS FILLET FOR PERIPHERY PACKING OF GLAZINGS/ STRUCTURAL/ GLAZINGS	ROOP/ ANAND/ FOREX PLASTIC/ NAGALIA
A 17	STAINLESS STEEL BOLTS / WASHERS / NUTS & SCREWS	KUNDAN/ PUJA/ ATULI
A 18	STAINLESS STEEL FRICTION/SPRING HINGES	EARL BIHARI/ SECURISTYLE/ EBCO /ARKAY
A 19	SS STAIRCASE RAILING	JINDAL STAINLESS STEEL/ ICICH INDUSTRIES/ ESSAL
A 20	M.S. PIPE	JINDAL/ PRAKASH- SURYA/ KALINGA/ TATA / TT SWASTIK
A 21	CERAMIC TILES	JOHNSON/ SOMANY/ KAJARIA/ SPARTEK/ NITCO/ ORIENT/ BELL CERAMICS
A 22	CEREMAIK FLOOR TILES	JOHNSON/ SOMANY/ KAJARIA/ SPARTEK/ NITCO/ ORIENT/ ASIAN
A 23	ADHESIVE FOR TILES	CICO/BELL/PIDILITE/BALENDURA/BASF/SIKA/FAIR MATE/ FERROUS
A 24	COMPRESSED CHEQUERED TILES	JOHNSON/ SOMANY/ KAJARIA/ SPARTEK/ NITCO/ ORIENT/ BELL /SCORPIO/ULTRA
A 25	VITRIFIED TILES	NITCO/ NAVEEN/ BELL/ H.R. JOHNSON/ KAJARIA/ SOMANY / EURO
A 26	MOSAIC TILES	NITCO, MODERN, SWASTIC
A 27	TERRAZZO TILES	NITCO, MODERN, SWASTIC
A 28	GLASS MOSAIC TILES	ITALIA, NITCO, OPIO
A 29	ROCKWOOL/MINERAL WOOL/PUF	M/S LLOYD INSULATIONS INDIA LTD./ MALARPUR ENTECH/ARMACELL

A 30	WATER PROOFING MATERIAL	SHALIMAR TAR PRODUCTS/ IWL (INDIA) LTD. / LLYOD INSULATIONS INDIA LTD. / CHEMISOL ADHESIVE PVT. LTD. MUMBAI/ INDIAN WATER PROOFING /OVERSEAS WATER PROOFING/ (CHEMISTIK) TEXAS LTD/ FOSROC /SIKA / CICO TECH LTD/ MC BOUCHEME/BASF
A 31	METAL SHEET ROOFING	M/S LLOYD INSULATIONS INDIA LTD./ M/S KIRBY / M/S TATA BLUE SCOPE / M/S INTER ARCH / KARTHIK ROOFINGS
A 32	DRY DISTEMPER	ICI / BERGER / ASIAN / SHALIMAR / NEROLAC /JOHNSON & NICHOLSAN
A 33	OIL BOUND DISTEMPER/ACRYLIC WASHABLE DISTEMPER	
A 34	OTHER PAINTS/ PRIMER	
A 35	PLASTIC EMULSION PAINT	
A 36	SYNTHETIC ENAMEL PAINTS	
A 37	RESIN BASED PAINTS	
A 38	EXTERNAL EMULSION PAINT	
A 39	TEXTURE PAINT	BERGER/ J & N/ SPECTRUM/ ASIAN / SHALIMAR/ ICI
A 40	TEMPERED GLASS/GLASS PAN	MODI FLOAT/ SAINT GOBAIN/ ASAHI
A 41	CLEAR GLASS/ CLEAR FLOAT GLASS/ TOUGHENED GLASS	MODI FLOAT/ SAINT GOBAIN (SG)/ ASAHI INDIA / GSC/ ATUL
A 42	FALSE CEILING	INDIA GYPSUM/ LAFFARGE /ST. GOBAIN/ DIAMOND FALSE CEILING TILES
A 43	POLYSULPHIDE SEALANT	PIDILITE/ FOSROC/ CHOKSEY/ CICO TECH LTD /SIKA / MC BOUCHEMIE / BASF/FAIR MATE
A 44	ALUMINIUM EXTRUSIONS	INDAL/ HINDALCO/ JINDAL.
A 45	ALUMINIUM FABRICATORS	M/S. INTERNATIONAL GLASS HOUSE / M/S. AGV ALFA LAB LTD. / M/S. CONSOLIDATED ENGG. COMPANY/ M/S. AJIT (INDIA) PVT. LTD. / CALCO / ALKARMA/ M/S. G-FAB PVT. LTD.
A 46	HYDRUALIC DOOR CLOSER / DOOR CLOSER/ FLOOR SPRING	DOORKING/EVERITE/ HARDWYN/MASTER/ SPECIFY LOCCALC/ DORMA/ GODREJ
A 47	CEMENT	ACC (ASSOCIATED CEMENT CO.)/ L&T/ AMBUJA CEMENT / BIRLA CORP. LTD. JK CEMENT/ GRASIM CEMENT / SHREE CEMENT / CENTURY / PRISM / INDIA CEMENT / BINANI/RAMCO
A 48	CEMENT WAL PUTTY	BIRLA WALL CARE/ J.K. WALL CARE
A 49	APP	BITUMAT CO LTD/ ROFLEX/ STP/ DERMABIT APEX

A 50	GRASS PAVERS	UNISTONE/ ULTRA/ HINDUSTAN/ K.K.
A 51	READY MIX CONCRETE	POABSONS/PTC/PRISM/ULTRATECH/ LAFARGE/ALCHON/ ACC/ L&T
A 52	STEEL REINFORCEMENT RODS	SAIL/ RASHTRIYA ISPAT NIGAM LTD. / TISCO/ IISCO/JINDAL/ TATA
A 53	CALCIUM SILICATE BOARDS	HILUX / AEROLITE
A 54	GI METAL CEILING	AMSTRONG/ GYPROC/ DIAMOND FALSE CEILING TILES
A 55	E.P.D.M. GASKETS	ANAND REDDIPLEX/ ENVIRO SEALS
A 56	SILICON SEALANTS (I) WEATHER SEALANT (II) STRUCTURAL GLAZING SEALANT	GE- SILICON/ PIDILITE/CHOKSEY/ WACKER/ FORSOC/ CICO/ DOW CORNING/ SIKA/
A 57	WHITE CEMENT	BIRLA WHITE/ J.K. / GRASIM/ ACC WHITE CEMENT
A 58	MICRO PERFORATED GFR (GLASS FIBER REINFORCED)	SAINT GOBAIN/ANUTONE
A 59	GI SHEET	SAIL/ TATA SHAKTI/ JINDAL/SWASTIK
A 60	STRUCTURE M.S. SECTIONS I & CHANNELS	ISI MARKED TISCO/ JINDAL/ SAIL/ RANA/ RATHI
A 61	STRUCTURAL EXTRUDED SECTIONS TEE, ANGLE IRON, FLATS ETC AND TMT BARS	ISI MARKED RANA/ TATA/ RATHI
A 62	STEEL WORKS WITH HOT FINISHED WELDED TYPE TUBULAR TRUSSES	BST/ JINDAL/ RAVINDRA/ SURYA
A 63	PRECAST CC INTERLOCKING PAVER BLOCK, KERN STONE	NITCO/ KK MANHOLE & GRATINGS CO. PVT LTD. /KONKRETE PRODUCTION CO./ TERRA FIRMA
A 64	POP (PLASTER OF PARIS)	BIRLA WHITE/ SAKARNI/ JK LAXMI
A 65	NON-AC SHEETS	ISI MARKED LOTUS, CHARMINAR, UPPAL, ACC
A 66	CENTRIFUGALLY CAST & PIPE	NECO/ TRUFORM/ TECNO SALES CORPORATIONS
B	PLUMBING WORKS	
B 1	VITREOUS CHINA SANITARYWARE	HINDWARE / PARRYWARE /CERA /COMMANDER/ KOHLER/ NEYCER/ KOHLER
B 2	W.C. SEATS & COVER	HINDWARE / PARRYWARE /CERA /COMMANDER
B 3	PVC CISTERN	COMMANDER/ DURALITE/ HINDWARE/ CORAL/ SPEEDFLOW/ STEELBIRD/ JINDAL/ SEABIRD

B 4	STAINLESS STEEL SINKS	JAYNA/KINGSTON/ NEELKANTH /NIRALI
B 5	C.P. FITTINGS & ACCESSORIES & FLUSH VALVES	JAQUAR/PARKO/ KINGSTON/HINDWARE / ESS-ESS
B 6	LIQUID SOAP DISPENSER	CHILLY/EURONICS/CAMRY/ UTEC / KOPAL
B 7	UPVC PIPES & FITTINGS CONFORMING TO IS : 13592	SUPREME / FINOLEX / PRINCE /AKG / KISAN/ PRAKASH
B 8	UPVC DOORS/ WINDOWS	FENESTA/ REHAU/ POLYWOOD
B 9	DUCTILE IRON PIPES (IS:8329)	ELECTROSTEEL/KESORAM/JINDAL
B 10	DUCTILE IRON FITTINGS (IS:9523)	ELECTROSTEEL/KESORAM/JINDAL/KARTAR
B 11	RCC PIPES	INDIAN HUME PIPE/PRAGATI CONCRETE UDYOG/THIRUNELVELI SPUN PIPES/THULUVANIKKAL PIPES
B 12	G.I. PIPES	TATA/ JINDAL / PRAKASH / SURYA
B 13	G.I. FITTINGS	ISI MARKED UNIK/ UK/ SURYA/ PRAKASH
B 14	MALLEABLE CAST IRON FITTINGS	R/KS / UNIK / ZOLOTO
B 15	MODULAR KITCHEN CCESSORIES	STALLION/ SPARKLE TOP/ HETTICH
B 16	PTMT FITTINGS	PARYAG/ WILSON
B 17	CPVC PIPES & FITTINGS	AJAY / ASTRAL / ASHIRWAD /SUPREME/FLOW GUARD
B 18	UPVC PIPES CONFORMINGTO IS: 4985-2000	SUPREME / FINOLEX / AKG / KISAN/ FLOW GUARD
B 19	GUN METAL VALVES (FULLWAY, CHECK AND GLOBE VALVES)	ZOLOTO / LEADER / SAINT/KARTAR/ATAM
B 20	C.I. VALVES (FULLWAY, CHECK ANDGLOBE VALVES)	ZOLOTO/ KIRLOSKAR / SANT / CASTLE / KARTAR/ATAM
B 21	BALL COCKS, CHECK & FOOTVALVE, PRV, AIR VALVE	GPA/SANT/L & K / TBS / ZOLOTO/ATAM
B 22	BALL VALVES	ZOLOTO/ IBP/ ARCO
B 23	C.I.MANHOLE COVERS AND FRAMES	NEECO / R.I.F. / B.C. /NEER/HEPCO/SKF

B 24	STAINLESS STEEL/C P GRATING	CHILLY/CAMRY
B 25	RCC/SFRC MANHOLE COVERS/PRECAST RCC GRATING/ GULLY TRAP COVERS	KK MANHOLES & GRATING CO. PVT LTD / S K PRECAST CONCRETE/ADVENT CONCRETOVISION/ KONKRETE PRODUCTS CO.
B 26	PVC-U PIPES FOR SEWERAGE AND DRAINAGE CONFORMING TO IS:15328:2003 AND IS MARKED	SUPREME / FINOLEX / KISAN/FLOW GUARD
B 27	MIRROR/ BEVELLED EDGE MIRROR	ATUL/ MODI GUARD /GOLDEN FISH / SAINT GOBAIN
C	ELECTRICAL WORKS	
C 1	SOLAR WATER HEATING SYSTEM	TATA BP SOLAR/BIPSUN/ GREENPECH/SOLPOWER /SOLAHARTINDIA/ WBS INNOVATIONS/ ARINNA
C 2	WATER COOLERS	BLUE STAR/VOLTAS/USHA
C 3	WATER HEATER	RACOLD/VENUS / BAJAJ / SPHEREHOT / AO SMITH /V-Guard
C 4	HIGH DENSITY POLYETHYLENE(HDPE) & PVC WATER STORAGE TANK	SINTEX / ROTEX / FUSION PLASTO / POLYCON/ SHEETAL/ SPL/ STOREX/ UNITANK
C 5	HORIZONTAL CENTRIFUGAL /MONOBLOCK PUMPS	KIRLOSKAR / GRUNDFOS /HBD-BOMBAY/PENTAIR
C 6	MULTISTAGE VERTICAL CENTRIFUGAL PUMPS	GRUNDFOS / WILO /D.P./PENTAIR
C 7	SUBMERSIBLE DRAINAGE PUMPS	KSB / KISHORE / JS /WILO/PENTAIR
C 8	ELECTRIC MOTORS	(REFER TO ELECTRICAL SPECIFICATIONS)
C 9	ELECTRICAL SWITCHGEAR &STARTERS	(REFER TO ELECTRICAL SPECIFICATIONS)
C 10	ELECTRICAL PANEL	(REFER TO ELECTRICAL SPECIFICATIONS)
C 11	CABLES	(REFER TO ELECTRICAL SPECIFICATIONS)
C 12	LIQUID LEVEL CONTROLLERS LIQUID LEVEL INDICATORS	MINILEC / RADAR
C 13	BUTTERFLY VALVE	AUDCO / ZOLOTO / ADVANCE /ATAM
C 14	FRLS PVC INSULATED COPPER CONDUCTER SINGLE CORE CABLE	HAVELLS/ PLOYCAB/ FINOLEX/ GRANDLAY
C 15	XLPE INSULATED, PVC SHEATHED ALUMINIUM	HAVELLS/ CCI/ SKYTONE/PLOCAB/ GRANDLAY/ FINOLEX

	CONDUCTOR ARMoured CABLE	
C 15	G.I. BOX WITH MODULAR PLATE/5/6 AMP SWITCH SOCKET OUTLET	ANCHOR AVE/ LEGRAND MYRIUS/ MK BLENZ/ SEIMENS
C 16	STEEL CONDUIT	RM CON/ NIC/ AKG/ BEC ISI MARKED
C 17	CEILING FANS 1200 mm SWEEP BEE 5 STAR RATED	CROMPTON GREAVES/ HAVELLS/ ORIENT
C 18	FEEDER PILLAR/PANEL	ADVANCE/ C&S/ AMBIT/ ADLEC/ ASPL
C 19	LOAD BANK	HAVELLS/ LEGRAND/ HPL
C 20	MCB/ MCB DB AND SHEET STEEL METAL ENCLOSED INDUSTRIAL SOCKET, PLUG TOP & ISOLATORS	LEGRAND/ SEIMENS/ABB/ HAVELLS/ L&T/ SCHNEIDER/ C&S/ G.E.
C 21	MCCB	LEGRAND/ SEIMENS/ABB/ HAVELLS/ L&T/ SCHNEIDER
C 22	LED INDICATION LIGHT & PUSH BUTTON	BCH/ C&S/ L&T/ SIEMENS
C 23	300 mm SWEEP EXHAUST FAN 900 RPM HEAVY DUTY	ORIENT/HAVELLS/ ALSTON/ USHA/ GE
C 24	PHASE INDICATION LIGHT	BCH/ L&T/ GE/ C&S
C 25	LED LUMANARIES	PHILIPS/WIPRO/CROMPTON/OSRAM
C 26	LED SMART BRIGHT EXTRA BATTEN	PHILIPS/ WIPRO/CROMPTON
C 27	14 WATT LED AESTHETICALLY DESIGNED LINER MIRROR LIGHT	PHILIPS/ WIPRO/HAVELLS/ TRILUX
C 28	21 WATT WALL MOUNTED LED BATTEN	PHILIPS/ WIPRO/HAVELLS/ CROMPTON/ TRILUX
C 29	6 WATT SURFACE/RECESS MOUNTED LED	PHILIPS/ WIPRO/HAVELLS/CROMPTON/TRILUX
C 30	12 WATT SURFACE MOUNTED LED	PHILIPS/ WIPRO/HAVELLS/CROMPTON/TRILUX
C 31	10 WATT LED TYPE BULKHEAD LUMANARIES	PHILIPS/ WIPRO/HAVELLS/CROMPTON/TRILUX
C 32	80 WATT LED FITTINGS	PHILIPS/ WIPRO/HAVELLS/CROMPTON
C 33	120 WATT LED FITTINGS	PHILIPS/ WIPRO/HAVELLS/CROMPTON
C 34	SPLIT AC	HITACHI/ CARRIER/ BLUESTAR/ DAIKIN/VOLTAS
C 35	5 KVA STABILIZER	BLUEBIRD/ LOGICSTATE/PCI/VOLTAS
C 36	OCTAGONAL POLE	VALMONT/ PHILIPS/ CROMPTON/PARUTHI
C 37	AVIATION OBSTRUCTION LIGHT FITTINGS	PHILIPS/ WIPRO/HAVELLS/CROMPTON
C 38	BRASS COMPRESSING GLAND	COMMET/GRIPWELL/HENSEL/DOWELLS

C 39	400mm OSCILLATING WALL FAN	HAVELLS/ CROMPTON/ ALSTOM/ALSTORN
C 40	70mm DIA HDPE PIPE	AKG/ DURALINE/ REX
C 41	LED SMD PANEL LIGHT	PHILIPS/ TRILUX/WIPRO/HAVELLS
C 42	HAND DRIER	EURONICS/DOLPHY
C 43	POLE BOX	SINTEX/ AKG/ MK/ HANSEL
C 44	STRAIGHT THROUGH JOINT WITH HEAT SHRINKABLE KIT	M SEAL/ DENSON/ PAYCHEM
C 45	CHANGEOVER SWITCH	C&S/ L&T/ SEIMENS/ ABB
C 46	GEYSER	USHA/ HAVELLS/ RECOLD/ CROMPTON
C 47	PUMP MOTOR STARTER	C&S/ L&T/ SEIMENS/ ABB
C 48	GI PIPE	ZENITH/JINDAL-HISSAR/ TATA WITH ISI MARKS
C 49	PVC CONDUIT/ PVC CONDUIT ACCESSORIES	AVONPLAST/ BAJAJ PLAST/ PRECISION/ ATUL/ BALCO/KONSEAL WITH ISI MARKED.
C 49	CABLE MANAGEMENT/ FLOOR TRUNKING	LEGRAND/ SCHNEIDER/ SIEMENS
C 50	STEEL CONDUIT PIPE & ACCESSORIES	BEC/STEET KRAFT/ BHARAT/ GUPTA/VIKAS PIPE INDUSTRIES (ISI MARKED)
C 51	UTP DATA CABLE	LEGRAND/ MOLLEX/ D-LINK
C 52	TIMER	L&T/ SCHNEIDER/ SIEMENS/ LEGRAND
C 53	METERS (DIGITAL TYPE)	AE/ L&T/ CONSZERV/SCHNEIDER
C 54	CT'S	KAPPA/ AE/ RISHABH
C 55	PHENOLIC LAMINATED SHEET	HYLAM/ GREEN LAM/ TATA (ISI MARKED)
C 56	RISING MAINS/ BUS TRUNKING/ TAP OFF BOX/ END FEED UNIT	C&S/ SCHNEIDER/ LEGRAND/SIEMENS/ GE
C 57	HDPE DWC PIPES	REX POLYEXTRUSION/ JAIN IRRIGATION/ DURALINE/ GEMINI
C 58	PVC INSULATED COPPER CONDUCTOR CABLE/ TELEPHONE CABLE/ CO-AXIAL TV CABLE	FINOLEX/ HAVELLS/ L&T/POLYCAB/ V-GUARD (ALL WIRES SHALL BE FRLS WITH ISI MARKED)

NOTE: Above list of makes is the General List of makes for various items used in the works. However, contractor will select the makes from above list in accordance with the scope of works mentioned for this work and other makes may be ignored. Some makes of material also mentioned in Bill of quantity and tender drawings/images. In case of any discrepancy between makes of material mentioned in Bill of quantity & tender drawings/images AND above "List of Make" then make of material mentioned in Bill of quantity & tender drawings/images will prevail.

VOLUME II

FINANCIAL PROPOSAL

Letter of Transmittal for Financial Bid

Total Cost of Works

Detailed Bill of Quantity

LETTER OF TRANSMITTAL FOR FINANCIAL BID

To

Chief Executive Director (Envt & CM)
WAPCOS Limited
Environment Division
76-C, Sector -18,
Gurgaon -122015

Subject: “Annual Repair, Maintenance and Operation (AMRO) Works of Civil, Electrical and MEP Services on Lumpsum Service Charges on Deposit Work Basis for ESIS Hospital and Staff Quarters at Kandivali, Mumbai (Package-3).”

Sir,

With reference to your NIT document dated, I/we, having examined the Bidding Documents and understood their contents, hereby submit my/our Bid for the aforesaid Project.

The Bid is unconditional and unqualified.

1. I / We acknowledge that the WAPCOS will be relying on the information provided in the BID and the documents accompanying the BID for selection of the Contractor for the aforesaid Project, and we certify that all information provided in the Bid are true and correct; nothing has been omitted which renders such information misleading; and all documents accompanying the BID are true copies of their respective originals.
2. The BID Price has been quoted by me / us after taking into consideration all the terms and conditions stated in the NIT, draft Agreement, our own estimates of costs and after a careful assessment of the site and all own the conditions that may affect the project cost and implementation of the project.
3. I/ We acknowledge the right of the Authority to reject our BID without assigning any reason or otherwise and hereby waive, to the fullest extent permitted by applicable law, our right to challenge the same on any account whatsoever.
4. In the event of my/ our being declared as the Selected Bidder, I/we agree to enter into an Agreement in accordance with the draft that has been provided to me/us prior to the BID Due Date. We agree not to seek any changes in the aforesaid draft and agree to abide by the same.
5. I / We shall keep this offer as specified in the NIT.
6. I / We hereby submit our BID and offer for undertaking the aforesaid Project in accordance with the Bidding Documents and the Agreement.

Yours faithfully,

Date:
signatory)

(Signature, name and designation of the Authorized

Place:

Name and seal of Bidder

TOTAL COST OF WORKS

Description	Percentage Quoted(below / above / at par)	Total Amount as per % Quoted (excluding GST) (Rs.)
Annual Repair, Maintenance and Operation (AMRO) Works of Civil, Electrical and MEP Services on Lumpsum Service Charges on Deposit Work Basis for ESIS Hospital and Staff Quarters at Kandivali, Mumbai (Package-3)	DO NOT FILL PERCENTAGE HERE	DO NOT FILL COST HERE
Total amount in words: DO NOT FILL COST HERE AS IT IS TECHNICAL PROPOSAL FILE		

Note:-

- The Bill of quantity of tender along with rate and amount is enclosed at Volume-II- Financial proposal.
- The Performa for filling the percentage is given in Microsoft excel sheet. Bidder shall fill the percentage only up to two decimal place in soft format. The bidder will upload same filled percentage quote in soft Microsoft Excel copy during uploading of financial bid.
- The Bidder shall quote Percentage up to two decimal only in bill of quantity of tender.
- The bidder shall quote keeping in view all associated costs with the project including any out of pocket/ mobilization expenses/ Custom duty (if any) , Buildings and other construction/maintenance workers welfare cess, TDS, taxes if any applicable as per Govt. terms, shall be paid by the Contractor.
- It is mandatory to bidders to deposit GST within time limit framed by Govt. of India, if applicable. The Goods and Services Tax (GST), shall be reimbursed to the Agency only after uploading of bills by Contractor on GST Portal to avail Input benefit of GST.
- The company shall be performing all its duties of deduction TDS and other deduction on payment made to the contractor as per applicable legislation in force on the date of submission of bid or to be newly / amended introduced during the execution of the Contract.
- WAPCOS has the right to (i) ask replacement of any workers due to their mis behaviours or lack of performing duties and (ii) terminate the contract due to lack of performing duties; with a one month notice in writing in either cases.
- Conditional Bid will not be accepted under any circumstances
- The staff working in the said work shall not be allowed to carry out any part time jobs inside the zone or shall not be deployed for any other works inside the zone other than

ESIC Authority works. If such instance is noticed, shall lead to termination of the contract without any advance notice and lead to further forfeiture of Security Deposit.

- Rate quoted shall be inclusive all the equipment's required for the work.
- The financial quote shall be submitted only in the prescribed format.
- ESI 3.25%, EPF13.61%, bonus 8.33% will be Reimbursement from ESIC/WAPCOS after received of ESI, EPF and Bonus Challan as per CLC rules from outsourcing agency.

(Signature, name and designation of the Authorized signatory)

Name and seal of Bidder

Detailed Bill of Quantity

Work Name: “Annual Repair, Maintenance and Operation (AMRO) Works of Civil, Electrical and MEP Services on Lumpsum Service Charges on Deposit Work Basis for ESIS Hospital and Staff Quarters at Kandivali, Mumbai (Package-3)”

Annual Repair, Maintenance & Operation (ARMO) works of Civil, Electrical & MEP Services on Lumpsum Service Charges on Deposit Work Basis for Esic Hospital and Staff Quarters at Kandivali Mumbai (Package-3)- Bill of quantity

SUMMARY -TOTAL COST CIVIL & ELECTRICAL

S.No.	Description	Amount(Rs.)
1	Civil Part Grand total	18,421,163.41
2	Electrical Part Grand total	21,901,942.82
	Total	40,323,106

*** *Above mentioned rates exclusive of GST and includes labour cess, other services charges and Administrative service Charges per worker as per only latest CLC norms per month quoted by the firm in financial bid shall be commensurate with the administrative and supervisory efforts required for the executing the contract**

*** Payment shall be released only for executed quantity and manpower as per the direction of Engineer-in Charge/ESIC**

Annual Repair, Maintenance & Operation (ARMO) works of Civil, Electrical & MEP Services on Lumpsum Service Charges on Deposit Work Basis for Esic Hospital and Staff Quarters at Kandivali Mumbai (Package-3)- Bill of quantity		
ANNEXURE A - TOTAL COST CIVIL		
S.No.	Description	Amount(Rs.)
1	Civil Work Part without GST	14,107,855.57
2	Civil Material Supply Part without GST	2,483,418.85
3	Civil Manpower Part without GST	1,829,889.00
A	Sub Total	18,421,163.41
<p>* * * *Above mentioned rates exclusive of GST and includes labour cess, other services charges and Administrative service Charges per worker as per only latest CLC norms per month quoted by the firm in financial bid shall be commensurate with the administrative and supervisory efforts required for the executing the contract</p>		
<p>* Payment shall be released only for executed quantity and manpower as per the direction of Engineer-in Charge/ESIC</p>		

Annual Repair, Maintenance & Operation (ARMO) works of Civil, Electrical & MEP Services on Lumpsum Service Charges on Deposit Work Basis for Esic Hospital and Staff Quarters at Kandivali Mumbai (Package-3)- Bill of quantity		
ANNEXURE B -TOTAL COST Electrical Works		
c	Description	Amount(Rs.)
A	Electrical Manpower	3,277,491
B	Electrical Material DSR/NDSR	7,515,493
C	IAC/AMC Service Of Electrical substation Transformer DG & CS	9,091,500
D	Camc/Amc of STP/WTP an RO	2,017,458
	Sub Total (A+B+C+D)	21,901,943
E	Total "E"	21,901,943
<p>* ** *Above mentioned rates exclusive of GST and includes labour cess, other services charges and Administrative service Charges per worker as per only latest CLC norms per month quoted by the firm in financial bid shall be commensurate with the administrative and supervisory efforts required for the executing the contract</p>		
<p>* Payment shall be released only for executed quantity and manpower as per the direction of Engineer-in Charge/ESIC</p>		

Annual Repair, Maintenance & Operation (ARMO) works of Civil, Electrical & MEP Services on Lumpsum Service Charges on Deposit Work Basis for Esic Hospital and Staff Quarters at Kandivali Mumbai (Package-3)- Bill of quantity

Wages Calculation as per Central Minimum Wages (CMW) W.e.f 25th Sept- 2024

Area A

	DESCRIPTION	MIN WAGE	Days	Total
1	High Skilled (Supervisor)	1035	26	26,910.00
			TOTAL (A)	26,910.00
		Bonus on (A) (up to 21000)	8.33%	-
			Total(B)	26,910.00
		GST on B		-
			Total C	26,910.00
		CP&OH on (C)	15%	4,037.00
		EPF(on 15000) on (A)	13%	1,950.00
		ESI (up to 21000)	3.25%	-
			Total D	5,987.00
			Total E=C+D	32,897.00
		Labour Cess on F	1%	-
			Total G	32,897.00
			Grand Total	32,897.00

	DESCRIPTION	MIN WAGE	Days	Total
2	Skilled (Electrician Gr-1, Civil: Pump Operator,Plumb er, Carpenter, Masons etc)	954	26	24,804.00
			TOTAL (A)	24,804.00
		Bonus on (A) (up to 21000)	8.33%	-
			Total(B)	24,804.00
		GST on B		-
			Total C	24,804.00
		CP&OH on (C)	15%	3,721.00
		EPF(on 15000) on (A)	13%	1,950.00
		ESI (up to 21000) on A	3.25%	-
			Total D	5,671.00
			Total E=C+D	30,475.00

Labour Cess on F	1%	-
	Total G	30,475.00
	Grand Total	30,475.00

	DESCRIPTION	MIN WAGE	Days	Total
3	Semi-Skilled (Gardener & Mason)	868	26	22,568.00
			TOTAL (A)	22,568.00
		Bonus on (A) (up to 21000)	8.33%	-
			Total(B)	22,568.00
		GST on B		-
			Total C	22,568.00
		CP&OH on (C)	15%	3,385.00
		EPF(on 15000) on (A)	13%	1,950.00
		ESI (up to 21000) on A	3.25%	-
			Total D	5,335.00
			Total E=C+D	27,903.00
		Labour Cess on F	1%	-
			Total G	27,903.00
			Grand Total	27,903.00
	DESCRIPTION	MIN WAGE	Days	Total
4	Un-Skilled (Civil & Electrical Helper, sewerman)	783	26	20,358.00
			TOTAL (A)	20,358.00
		Bonus on (A) (up to 21000)	8.33%	1,696.00
			Total(B)	22,054.00
		GST on B		-
			Total C	22,054.00
		CP&OH on (C)	15%	3,308.00
		EPF(on 15000) on (A)	13%	1,950.00
		ESI (up to 21000) on A	3.25%	661.64
			Total D	5,919.64
			Total E=C+D	27,973.64
		Labour Cess on F	1%	-
			Total G	27,973.64
			Grand Total	27,974.00

Annual Repair, Maintenance & Operation (ARMO) works of Civil, Electrical & MEP Services on Lumpsum Service Charges on Deposit Work Basis for Esic Hospital and Staff Quarters at Kandivali Mumbai (Package-3)- Bill of quantity											
MANPOWER											
S.No	Description	Qualification	Category	Duty hours/Shift	Manpower	Reliever	Total Manpower	Rates per Month	Total Cost for One Month	Total Cost for one year	Remarks
DETAILS OF MANPOWER FOR CIVIL WORK											
1	Plumber	ITI /Trade Certificate with 3 year of Experience	Skilled	General Shift 1	1.00	0.00	1.00	30,475.00	30,475.00	365,700.00	
2	Carpenter	ITI /Trade Certificate with 3 year of Experience	Skilled	General Shift 1	1.00	0.00	1.00	30,475.00	30,475.00	365,700.00	
3	Gardener	Experience in Gardening works	Skilled	Call Basis	1.00	0.00	1.00	30,475.00	30,475.00	91,425.00	03 Months
4	Sewerman	Experience in Maintenance	Unskilled	General Shift 1	1.00	0.00	1.00	27,974.00	27,974.00	335,688.00	
5	Helpers/ khallasi	Experience in Maintenance	Unskilled	General Shift 1	2.00	0.00	2.00	27,974.00	55,948.00	671,376.00	
	TOTAL MANPOWER						6.00		175,347.00	1,829,889.00	
					Total (Amount)				1,829,889.00		
Note :-											
* General Duty Hours shall be from 9:00am to 5:30 pm and may be vary as per the direction of Engineer In-charge.											
* Minimum wages as per CLC norms shall be follow on worker time to time by WAPCOS Limited.											
* Manpower can be increased or decreased as per the requirement of ESIC/WAPCOS Limited. Payment shall be released to only actual present manpower approved by ESIC/WAPCOS in respective month.											
* *Above mentioned rates Excludes GST& Includes labour cess, other services charges and Administrative service Charges per worker as per only CLC norms per month quoted by the firm in financial bid shall be commensurate with the administrative and supervisory efforts required for the executing the contract.											

Annual Repair, Maintenance & Operation (ARMO) works of Civil, Electrical & MEP Services on Lumpsum Service Charges on Deposit Work Basis for Esic Hospital and Staff Quarters at Kandivali Mumbai (Package-3)- Bill of quantity						
Civil works (for DSR Items Reference DSR -2023 Specification)						
Sl.No.	DSR 2023, Hort 2020	Description of Items	Unit	Qty	Unit Rate (in Rs)	Amt (in Rs)
1	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge, All kinds of soil	cum	100	177.50	17,750.00
2	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared	sqm	1000	17.60	17,600.00
3	2.8.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	cum	120	260.30	31,236.00
4	2.10.1.1	Excavating trenches by mechanical / manual means of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : All kinds of soil, pipes, cables etc, not exceeding 80 mm dia	metre	250	215.60	53,900.00
5	2.10.1.2	Excavating trenches by mechanical / manual means of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, for all depth, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : All kinds of soil, pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	metre	200	352.15	70,430.00
6	2.25	filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift.	cum	60	196.00	11,760.00
7	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 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)	cum	10	7878.50	78,785.00
8	4.1.11	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:5:10 (1 cement : 5 fine sand derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	10	6189.65	61,896.50
9	5.1.3	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	5	8583.40	42,917.00
10	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	5	11505.50	57,527.50
11	5.9.3	Centering and shuttering including strutting, propping etc. and removal of form for Suspended floors, roofs, landings, balconies and access platform	sqm	50	927.25	46,362.50
12	5.18.2	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 6mm nominal size), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits.Cement Concrete Jali 40 mm thick	sqm	25	1706.55	42,663.75
13	5.22.6	Steel reinforcement for r.c.c. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. thermo-mechanically treated bars of grade fe-500D or more.	Kg	1000	107.85	107,850.00

14	6.1.2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	10	7132.25	71,322.50
15	6.13.2	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	25	1123.80	28,095.00
16	6.15	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry	sqm	35	104.80	3,668.00
17	8.6	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	sqm	45	506.70	22,801.50
18	8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	sqm	50	1267.95	63,397.50
19	9.1.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Second class teak wood	cum	0.244	142949.7	34,843.99
20	9.9.1.1	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes (weight not less than 10 kg per sqm) fixing with ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws. Second class teak wood. 35 mm thick.	sqm	5	4940.20	24,701.00
21	9.21.1	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of black board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	25	2392.65	59,816.25
22	9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	sqm	18	462.35	8,322.30
23	9.24.1	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured):Rectangular or square	sqm	3	199.15	597.45
24	9.26	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	sqm	37	106.70	3,947.90
25	9.40.1.1	Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete : 2nd class teak wood: 50x12 mm	metre	18	221.10	3,979.80
26	9.46.3	Providing and fixing chromium plated brass curtain rod having wall thickness of 1.25mm with two chromium plated brass brackets fixed with C.P. brass screws and PVC sleeves etc., wherever necessary complete : 25 mm dia	metre	50	525.55	26,277.50
27	Hort 2.57.1	Plantation of trees at site i/c watering and removal of unserviceable materials as per direction of officer in charge (excluding cast of plant and water)	Each	500	7.3	3,650.00
28	Hort 2.31.3	Size of Empty Pots 20cm Top dia, 12cm Bottom Dia & 20cm Perpendicular height.	Each	50	11.40	570.00
29	Hort 2.31.6	Size of Empty Pots 25cm Top dia, 15cm Bottom Dia & 25cm Perpendicular height.	Each	50	22.25	1,112.50
30	Hort 2.31.7	Size of Empty Pots 35cm Top dia, 25cm Bottom Dia & 35cm Perpendicular height.	Each	50	45.75	2,287.50
31	Hort 10427	Jasminum grandiflorum (chameli) plant of height 30 cm to 45 cm. in 20 cm size of Earthen pots / Plastic pots.	Each	52	30.00	1,560.00
32	9.48.1	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.Fixed to steel windows by welding	kg	350	219.10	76,685.00
33	9.51.1	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete.With 2nd class teak wood beading 62X19 mm	sqm	50	1308.35	65,417.50
34	9.62.1	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :300x16 mm	each	20	216.55	4,331.00
35	9.62.2	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :250x16 mm	each	60	193.7	11,622.00
36	9.63.1	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :250x10 mm	each	20	83.9	1,678.00
37	9.96.1	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :300x16 mm	each	15	303.25	4,548.75
38	9.96.2	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :300x16 mm	each	15	260.6	3,909.00

39	9.66.1	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :125 mm	each	35	39.95	1,398.25
40	9.88	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	each	20	998.35	19,967.00
41	9.97.1	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :300x10 mm	each	20	130.1	2,602.00
42	9.97.2	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :250x10 mm	each	20	115.15	2,303.00
43	9.97.3	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :200x10 mm	each	60	99.7	5,982.00
44	9.97.4	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :150x10 mm	each	15	82.55	1,238.25
45	9.97.5	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :100x10 mm	each	15	64.7	970.50
46	9.99	Providing and fixing 50 cm long aluminium kicking plate of size 100x3.15 mm, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete.	each	10	239.40	2,394.00
47	9.100.1	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 125 mm	each	100	66.25	6,625.00
48	9.101.1	Providing and fixing 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.Single rubber stopper	each	150	39.6	5,940.00
49	9.121	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	mtr	30	570.95	17,128.50
50	9.122.1	Providing and fixing to existing door frames. 30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.	sqm	10	3720.75	37,207.50
51	9.122.2	30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge.	sqm	10	4488.95	44,889.50
52	9.127.1	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality. 1.0 mm thick	sqm	50	1045.95	52,297.50
53	9.135.1	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete. With 2nd class teak wood beading 62X19 mm	sqm	50	1597.15	79,857.50
54	9.141	Providing and fixing PVC Door Frame of size 50x47 mm with a wall thickness of 5 mm (± 0.2 mm), made out of single piece extruded PVC profile, with mitred cut joints and joint with 2 nos of PVC bracket of size 190 mm x 100 mm long arms of cross section size 35 x 15 mm & self driven self tapping screws, the vertical door profiles to be reinforced with 40x20 mm M.S. rectangular tube of 0.8 mm , including providing EPDM rubber gasket weather seal throughout the frame, including jointing 5 mm PVC frame strip with PVC solvent cement on the back of the profile. The door frame to be fixed to the wall using 8 x100 mm long anchor fasteners complete, all as per manufacturer's specification and direction of Engineer -in- charge.	metre	100	573.45	57,345.00

55	9.142.2	35 mm thick factory made Solid panel PVC Door shutter, made out of single piece extruded solid PVC profiles, 5 mm (± 0.2 mm) thick, having styles & rails (except lock rail) of size 95 mm x 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm X 20 mm x 1 mm, joints of styles & rails to be mitered cut & joint with the help of PVC solvent cement, self driven self tapping screws & M.S. rectangular pipes bracket of size 190 mm X 100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5 mm thick solid PVC Lock rail of size 115 mm x 35 mm, out of which 75 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete as per manufacturer's specification and direction of Engineer-in-charge. Decorative finish (wood grained finish)	sqm	20	4713.05	94,261.00
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56	9.168	Providing and fixing cuboard shutter with 19 mm thick one side decorative and other side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand including 2 mm thick PVC edege banding tape with hot glue by edege bending machine etc. with auto closing spring loaded hinges (hydraulic type) etc. complete as per direction of Engineer-in-charge. (Payment of providing and fixing auto closing hinges shall be paid separately)	sqm	25	2829.25	70,731.25
57	9.169	Providing and fixing 19 mm thick both side balancing lamination factory pressed BWP grade marine ply as per IS 710 of approved brand boxes, shelves, racks, almirah, cupboard and drawer etc. including necessary nails, screws etc. complete as per direction of Engineer-in-charge.	sqm	25	2593.15	64,828.75
58	9.170.1	Providing and fixing stainless steel fancy handle of approved make fixed with SS screws etc. complete as per direction of Engineer-in-charge. 200 mm	each	80	186.65	14,932.00
59	9.171	Providing and fixing stainless steel soft closing spring hinges at 0 degree hinges (hydraulic type) of approved make/brand to cupboard shutters with full threaded steel screws including making necessary recess in board and finished etc. complete as per direction of Engineer-in-charge.	each	120	272.00	32,640.00
60	9.172	Providing and fixing stainless steel soft closing heavy type telescopic drawer channels of approved make 500 mm long with screws etc. complete as per directions of Engineer-in-charge.	each	50	885.10	44,255.00
61	9.174	Providing and fixing 2 mm thick 16 to 19 mm wide PVC edge binding tape of approved quality for cuboard/wardrobe shutters including necessary synthetic resin hot pressed to edges on binding machine etc. complete as per direction of Engineer-in-charge.	metre	150	43.80	6,570.00
62	10.2	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.	kg	150	133.70	20,055.00
63	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	sqm	7	11439.60	80,077.20
64	10.5.1	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angles 40x40x6 mm for diagonal braces	sqm	15	5804.35	87,065.25
65	10.7	Providing and fixing ball bearing for rolling shutters.	each	100	492.35	49,235.00
66	10.16.2	Steel work in built up tubular (round, square or rectangular hollow tubes applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete with Hot finished seamless type tubes	kg	500	206.35	103,175.00
67	10.14.1.1	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge: Profile B, Fixing with adjustable lugs with split end tail to each jamb	metre	30	583.30	17,499.00
68	10.22	Welding by gas or electric plant including transportation of plant at site etc. complete.	CM	20000	3.70	74,000.00
69	10.25.1	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	kg	200	123.60	24,720.00
70	10.25.2	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	kg	800	172.60	138,080.00
71	10.26.1	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. M.S. tube	kg	300	196.80	59,040.00
72	10.30.2	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 5.5 mm thick glass panes	sqm	60	1390.15	83,409.00
73	11.26.1	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick	sqm	20	1948.25	38,965.00
74	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	sqm	10	2354.70	23,547.00
75	11.39	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.	sqm	100	1330.00	133,000.00
76	11.41.2	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	sqm	100	1553.45	155,345.00

77	11.46.2	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete with Size of Tile 600x600 mm	sqm	100	1623.05	162,305.00
78	11.56.1	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. Polished Granite stone slab of colour Black, Cherry/Ruby Red or equivalent	sqm	50	4481.30	224,065.00
79	12.21.1	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : In 75x75 mm deep chase	metre	120	305.15	36,618.00
80	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete	each	80	298.25	23,860.00
81	12.38.1	Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I. rain water pipes embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making good the walls etc. :100 mm diameter	each	80	362.85	29,028.00
82	12.38.2	Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I. rain water pipes embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making good the walls etc. : 150 mm diameter	each	50	395.60	19,780.00
83	12.41.1	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 75 mm diameter	metre	300	248.80	74,640.00
84	12.41.2	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter	metre	200	377.40	75,480.00
85	12.42.1.1	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Coupler: 75 mm	each	40	91.70	3,668.00
86	12.42.1.2	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Coupler: 110 mm	each	50	136.15	6,807.50
87	12.42.2.1	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion., Single pushfit Coupler, 75 mm	each	40	93.10	3,724.00
88	12.42.2.2	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion., Single pushfit Coupler, 110 mm	each	60	127.60	7,656.00
89	12.42.5.1	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion., Bend 87.5°, 75 mm bend	each	50	105.90	5,295.00
90	12.42.5.2	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion., Bend 87.5°, 110 mm bend	each	50	150.35	7,517.50
91	12.42.6.1	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion., Shoe (Plain), 75 mm Shoe	each	50	93.10	4,655.00
92	12.42.6.2	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion., Shoe (Plain), 110 mm Shoe	each	50	131.85	6,592.50
93	12.43.1	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. 75 mm	each	30	369.85	11,095.50
94	12.43.2	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. 110 mm	each	50	371.30	18,565.00
95	12.44	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	each	50	54.70	2,735.00

96	12.45.1	Providing and fixing false ceiling at all height including providing and fixing of frame work 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, er the CAMC. any spear parts required to rectify the defect will be supplied by the agency without any extra cost. details of job specification and quantity are enclosed separately as Annexure-A. Interested agency to verify job on site before quoting. servicing and calibration of all the digital/ analog meters once in a year and replacement of defective one, without any extra cost. A service report of the same to be provided with the bill. Preventive maintenance of sub station bus duct once in a six month. A service report of the same to be provided with the bill. Earth pit testing (total 138 nos.) to be carried out Twice in a year. A service report of the same to be provided with the bill. (Also provide safety equipment's including Rubber mats and sustained cover for open cable duct entire panel room) Agency will be engage one qualified and experience substation engineer for 365 days verified attendance required at atime of billing.	sqm	50	1355.8	67,790.00
97	12.47.1	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866.The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.2 mm thick corrugated (2.5" or 4.2" or 6") or step-down (2" or 3" or 6") as specified	sqm	50	1401.35	70,067.50
98	12.50.	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 Engineerin-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.	sqm	100	738.65	73,865.00
99	12.52.2	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece.	sqm	200	2068.75	413,750.00
100	13.1.2	12 mm cement plaster of mix :1:6 (1 cement: 6 fine sand)	sqm	300	333.35	100,005.00
101	13.2.1	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:4 (1 cement: 4 fine sand)	sqm	300	399.45	119,835.00
102	13.16.1	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	sqm	250	300.45	75,112.50
103	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	sqm	400	262.7	105,080.00
104	13.37.1	White washing with lime to give an even shade : New work (three or more coats)	sqm	200	39.05	7,810.00

105	13.41.1	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour : New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	sqm	1500	185.65	278,475.00
106	13.46.1	Finishing walls with Acrylic Smooth exterior paint of required shade : New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)	sqm	500	160.60	80,300.00
107	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	sqm	500	170.7	85,350.00
108	13.50.3	Applying priming coat : With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works	sqm	1000	67.4	67,400.00
109	13.52.1	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On steel work	sqm	100	241.75	24,175.00
110	13.80	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.	sqm	400	156.05	62,420.00
111	13.81	Distempering with 1st quality acrylic distemper (ready mixed) having VOC (Volatile Organic Compound) content less than 50 gram/ litre, of approved brand and of required shade and colour complete to give and even shade. Old work (one or more coats)	sqm	2000	62.70	125,400.00
112	13.83.1	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre. of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. One coat	sqm	2000	95.45	190,900.00
113	13.83.2	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. Two coat	sqm	2000	142.80	285,600.00
114	13.85.1	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	sqm	600	70.35	42,210.00
115	13.85.3	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre.	sqm	2000	73.95	147,900.00
116	13.91	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.	sqm	2000	25.15	50,300.00
117	13.94.2	Painting (one or more coats) on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture on old work : 100 mm diameter pipes	Meter	200	35.50	7,100.00
118	13.96.2	Painting (one or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour on old work : 100 mm diameter pipes	metre	200	36.25	7,250.00
119	13.96.3	Painting (one or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour on old work : 150 mm diameter pipes	metre	200	52.25	10,450.00
120	13.82.1	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour. One coat	sqm	4000	92.00	368,000.00
121	13.99.1	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :One or more coats on old work	sqm	2000	102.80	205,600.00
122	13.105	Re-lettering with black Japan paint of approved brand and manufacture.	Per letter per cm height	500	3.85	1,925.00
123	14.1.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge. With cement mortar 1:4 (1 cement : 4 fine sand)	sqm	200	547.40	109,480.00
124	14.2.1	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge. Door chowkhats	each	20	1782.55	35,651.00
125	14.5.2	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty: Float glass panes of thickness 5.5 mm	sqm	60	1416.15	84,969.00
126	14.7.1	Renewing glass panes and refixing existing wooden fillets: Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	Sqm	40	1227.30	49,092.00
127	14.9	Renewal of old putty of glass panes (length)	metre	100	56.15	5,615.00

128	14.10	Refixing old glass panes with putty and nails	sqm	100	729.85	72,985.00
129	14.21	Renewing bottom rail and/or top runner of collapsible gate including making good all damages and applying priming coat of zinc chromate yellow primer of approved brand and manufacturer.	Kg	180	298.85	53,793.00
130	14.22.1	Renewing Wrought iron or M.S. Wheel or roller of steel door or gate and fitting and fixing the same with necessary clamps, nuts and bolts/welding and erection etc. Complete Wheel 50 mm dia and below	Per Wheel	50	123.70	6,185.00
131	14.34	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, necessary brass screws etc. to suit shutter thickness complete.	Each	60	271.45	16,287.00
132	14.40.1	Providing and fixing chromium plated brass butt hinges with necessary chromium plated brass screws etc. complete. 125x70x4 mm (ordinary type)	Each	40	171.05	6,842.00
133	14.72	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 chollies, 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.	sqm	1000	338.25	338,250.00
134	14.75A	Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank, including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba, all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account (Quarterly Cleaning 185000x4)	litre	75000	0.50	37,500.00
135	14.76	Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.	each	700	108.30	75,810.00
136	14.77	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 150mm dia upto 300mm	metre	1000	340.75	340,750.00
137	14.78	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 silt 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	sqm	2500	422.70	1,056,750.00
138	14.79	Disconnecting damaged overhead/terrace PVC water storage tank of any size from water supply line and removing from the terrace including shifting at ground level as per direction of Engineer-in- charge.	each	20	433.75	8,675.00
139	14.80.2	Providing & fixing White vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material i/c malba, all complete as per the direction of Engineer-in charge.Orissa pattern W.C Pan of size 580x440 mm	each	15	4478.75	67,181.25
140	14.82	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge.	each	10	134.10	1,341.00
141	15.2.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	cum	20	1503.60	30,072.00
142	15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	cum	20	3551.25	71,025.00
143	15.7.4	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	cum	30	2060.20	61,806.00
144	15.12.1	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : of area 3 sq. metres and below	each	20	367.20	7,344.00

145	15.13.1	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead of area 3 sq. metres and below	each	90	143.50	12,915.00
146	15.18	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.	kg	1000	5.65	5,650.00
147	15.23.1	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	sqm	500	73.40	36,700.00
148	15.51	Dismantling of road gully chamber of various sizes including C.I. grating with frame including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead including refilling the excavated gap.	each	25	958.75	23,968.75
149	15.56	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.	sqm	1500	54.65	81,975.00
150	15.60	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	cum	500	263.95	131,975.00
151	1.1.18	Disposal of moorum/building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-charge. Note - item to be applicable in urban areas having directions for restricted hours for movement/ plying of load carrying motor vehicle of 3.5 cum or more.	Cum	500	494.10	247,050.00

152	16.60.1	Manufacturing, supplying and fixing retro reflective overhead signage boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity and encapsulated lens type heat activated retro reflective sheeting conforming to type - III of ASTM-D-4956-01 as approved by Engineer-in-charge, letters, borders etc. as per IRC : 67-2001 in silver white with blue colour back ground and with high intensity grade, pasted on substrate by pressure sensitive adhesive backing which shall be activated by applying pressure conforming to class II of ASTM-D-4956-01 and fixing the same to the plate of structural frame work by means of suitable sized aluminium alloys, rivets or bolts & nuts @ 300 mm centre to centre all along the periphery as well as in two vertical rows along with theft resistant measures, including the cost of painting with two or more coats of epoxy paint in grey colour on the back side of aluminium sheet including appropriate priming coat. The rate includes the cost of rounding off the corners, lowering down the structural frame work from the gantry, fixing and erecting the same in position all complete as per drawings, specification and direction of the engineer-in-charge. (Structural frame work including M.S. plate to be provided separately. Rectangular area of the sheet only shall be measured for payment). Overhead informatory road signage	Sqm.	10	5,879.90	58,799.00
153	16.68	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	sqm	100	972.00	97,200.00
154	16.69	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 be 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).	cum	7	10117.60	68,293.80
155	16.82	Taking out existing kerb stones of all types from footpath/ central verge, including removal of mortar etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	metre	500	39.35	19,675.00
156	16.83	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	Sqm	500	131.75	65,875.00
157	16.84	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer in-charge. (Old CC paver blocks shall be supplied by the department free of cost).	Sqm	100	402.95	40,295.00
158	16.85	Laying at or near ground level old kerb stones of all types 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 be more than 5 mm), including making drainage opening wherever required etc. complete as per direction of Engineer -in-charge. (Length of finished kerb edging shall be measured for payment). (Old kerb stones shall be supplied by the department free of cost).	metre	500	109.45	54,725.00
159	17.2.1	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid	each	15	6515.55	97,733.25
160	17.7B	Providing and fixing wash basin with C.I. brackets, 15 mm PTMT pillar cock, 32 mm PTMT waste coupling of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required. White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm PTMT pillar cock.	each	30	1550.60	46,518.00
161	17.10.2.1	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : 610x510 mm bowl depth 200 mm	each	20	4940.80	98,816.00
162	17.11.1	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required : Size 450x300x150 mm	each	5	5020.85	25,104.25
163	17.37.1	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. : For 100 mm dia pipe	each	30	362.85	10,885.50
164	17.38.1.1	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete. 100 mm dia Sand cast iron S&S as per IS - 1729	each	5	598.50	2,992.50

165	17.38.2.1	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete. 75 mm dia Sand cast iron S&S as per IS - 1729	each	5	501.45	2,507.25
166	17.42.1.1	Providing and fixing double equal plain junction of required degree. 100x100x100x100 mm Sand cast iron S&S as per IS - 1729	each	5	939.90	4,699.50
167	17.77.1	Providing and fixing M.S. holder bat clamp of approved design to sand cast iron/ cast iron (spun) pipes comprising of M.S. flat brackets made of 50x5 mm flat of specified shape, projecting 75 mm outside the wall surface and fixed on wall with 4nos, 6mm dia expansion hold fasteners, including drilling necessary holes in brick wall/ CC/RCC surface and the cost of bolts etc. The pipes shall be fixed to the already fixed brackets with the help of 30 mm x1.6 mm galvanised M.S. flats of specified shape and of total length 420 mm and shall be fixed with M.S. nuts, bolts, & washers of size 25x6 mm, one bolts on each side of the pipe. Total bracket length 580 mm of approved shape and design (for single 100 mm dia pipe).	each	100	304.05	30,405.00
168	17.77.2	Providing and fixing M.S. holder bat clamp of approved design to sand cast iron/ cast iron (spun) pipes comprising of M.S. flat brackets made of 50x5 mm flat of specified shape, projecting 75 mm outside the wall surface and fixed on wall with 4nos, 6mm dia expansion hold fasteners, including drilling necessary holes in brick wall/ CC/RCC surface and the cost of bolts etc. The pipes shall be fixed to the already fixed brackets with the help of 30 mm x1.6 mm galvanised M.S. flats of specified shape and of total length 420 mm and shall be fixed with M.S. nuts, bolts, & washers of size 25x6 mm, one bolts on each side of the pipe. Total bracket length 810 mm of approved shape and design (for two 100 mm dia pipes).	each	150	378.10	56,715.00
169	17.78	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.	each	2	14999.15	29,998.30
170	18.7.2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall 20 mm nominal dia Pipes	metre	180	335	60,300.00
171	18.7.3	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall 25 mm nominal dia Pipes	metre	200	401.55	80,310.00
172	18.7.4	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall 32 mm nominal dia Pipes	metre	150	518.75	77,812.50
173	18.7.5	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall 40 mm nominal dia Pipes	metre	150	702.95	105,442.50
174	18.8.1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work , including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	metre	50	497.80	24,890.00
175	18.8.2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work , including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	metre	100	537.60	53,760.00
176	18.8.3	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work , including cutting chases and making good the walls etc. 25 mm nominal outer dia Pipes	metre	30	627.25	18,817.50
177	18.12.1	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work 15 mm dia nominal bore	metre	40	322.15	12,886.00
178	18.12.2	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work 20 mm dia nominal bore	metre	40	368.80	14,752.00
179	18.12.3	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work 25 mm dia nominal bore	metre	40	467.75	18,710.00

180	18.12.4	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work 32 mm dia nominal bore	metre	40	540.30	21,612.00
181	18.12.5	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work 40 mm dia nominal bore	metre	40	617.05	24,682.00
182	18.12.6	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work 50 mm dia nominal bore	metre	10	762.15	7,621.50
183	18.12.8	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work 80 mm dia nominal bore	metre	85	1041.70	88,544.50
184	18.34.1	Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve , with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design : With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	10	18896.70	188,967.00
185	16.53	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	One Running Metre	100	375.80	37,580.00
186	21.8	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.				
187	21.8.1	Upto 5mm depth and 5 mm width	One Running Metre	400	96.75	38,700.00
188	18.48A	Providing and fixing rectangular high density polyethylene water storage loft tank with cover, conforming to ISI : 12701, colour of opaque white or as approved by Engineer-in-charge. The rate includes making necessary holes for inlet, outlet & over flow pipes. The base support i/c fittings & fixtures for tank shall be paid separately.	per litre	5000	11.00	55,000.00
189	18.49.1	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931:15 mm nominal bore.	each	10	506.80	5,068.00
190	18.51.1	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore	each	10	798.95	7,989.50
191	18.52.1	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore.	each	5	670.45	3,352.25
192	18.53.1	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 : 15mm nominal bore	each	20	574.30	11,486.00
193	18.53A	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.	each	10	74.80	748.00
194	19.20	Supplying and fixing C.I. cover 300x300 mm without frame for gully trap (standard pattern) the weight of cover to be not less than 4.5 kg	each	40	787.00	31,480.00
195	19.19.2.1	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality M D - 10Square shape 450 mm internal dimension	each	45	1386.55	62,394.75

196	21.1.1.2	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) : For fixed portion-Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	500	530.90	265,450.00
197	21.1.2.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	250	634.45	158,612.50
198	21.2.1	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. Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side	sqm	150	1139.30	170,895.00
199	21.3.2	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item)-With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	sqm	50	1505.25	75,262.50
200	21.4.1	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With stainless steel cover plate minimum 1.25 mm thickness	each	10	2823.85	28,238.50

201	21.10	Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side, having 12 mm air gap, including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. as per specifications, drawings and direction of Engineer-in-charge complete.	sqm	6	4997.7	29,986.20
202	21.13	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	each	30	528.85	15,865.50
203	21.15.2	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete. Powder coated minimum thickness 50 micron aluminium	each	5	97.95	489.75
204	21.16.2	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. Powder coated minimum thickness 50 micron aluminium	each	5	109.30	546.50
205	21.17	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).	kg	100	638.35	63,835.00
206	21.18	Providing and fixing 12 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 required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc.to be paid separately).	Sqm.	15	5,325.90	79,888.50
207	21.19.1	Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/Brick/ Stone/ wood/ Ceramic/ Gypsum work by providing weather/structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete, complying to ASTM C920, DIN 18540- F & ISO 11600-Upto 5 mm depth and 5 mm width	metre	500	148.10	74,050.00
208	22.14.1	Grading roof for water proofing treatment with Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	10	8042.30	80,423.00
209	22.14.3	Grading roof for water proofing treatment with Cement mortar 1:4 (1cement : 4 coarse sand)	cum	5	15155.60	75,778.00
210	22.22A	Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.	Sqm.	500	563.10	281,550.00
211	22.23A	Providing & Applying polymer modified, flexible cementitious negative side waterproofing coating with elastic waterproofing polymers on interior wall plaster surface in three coats @14.35 kg /10 sqm. one coat of self priming of cementitious waterproofing polymer(dilution with water in the ratio of 1:1) and two coats of cementitious waterproofing polymer (dilution with water in the ratio of 3:1) after scrapping and properly cleaning the surface to remove pre-existing paint film & loose particles till plaster is visible, complete in all respect as per the direction of Engineer-in-Charge.	Sqm.	300	447.35	134,205.00
212	26.28.3	Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge. 25 mm average thickness	sqm	300	126.75	38,025.00
213	26.29.2	Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge. Bars above 12 mm diameter	metre	4000	16.45	65,800.00
214	26.31.1	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect. SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer	q	300	141.20	42,360.00
215	26.32.2	Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge. 25 mm average thickness in 2 layers. Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/Sqmm2).	sqm	250	587.35	146,837.50

216	26.87	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/ wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm ² , modulus of elasticity 850 N/mm ² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/ moisture proof and fire retardant and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately)				-
	26.87.1	30 mm thick	Sqm	10.00	4346.70	43,467.00
	26.87.2	35 mm thick	Sqm	10.00	5015.35	50,153.50
217	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				-
		(i)Single socketed pipes.				-
	12.41.1	75 mm diameter	m	10	248.80	2,488.00
	12.41.2	110 mm diameter	m	10	377.40	3,774.00
218	17.35.1.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	m	10	1169.30	11,693.00
219	26.81	Providing and fixing Scaffolding net of required width made of high density Polyethylene UV stabilized knitted on warp knitting machines having density 100grams/sqm and shading coefficient minimum 75% around the construction site/ for vertical extension as per requirement including fastening/tying with uilding/scaffolding pipes or with any other fixtures etc. complete as per direction of Engineer-in-Charge. (One time payment shall be made for providing Scaffolding net from start of work till completion of work including shifting if any. The Scaffolding net shall be the property of the contractor on completion of the work	Sqm	200	29.25	5,850.00
220	26.31.1	SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer	Sqm	0	141.20	-
221	26.31.2	Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make.	Sqm	10	285.20	2,852.00
222	26.32	Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge.				-
		Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/Sqmm ²).				-
	26.32.1	12 mm average thickness.	Sqm	5	388.65	1,943.25
	26.32.2	25 mm average thickness in 2 layers.	Sqm	0	587.35	-
	26.32.3	50 mm average thickness in 3 layers.	Sqm	50	1174.70	58,735.00
					Sub Total	13,672,387.69
					Cost Index @16%	2,187,582.03
					Total for Civil DSR works with GST	15,859,969.72
					Total for Civil DSR works without GST (A)	13,440,652.30

Civil MR Works						
Sl.No.	DSR/MR	Description of Items	Unit	Qty	Unit Rate (in Rs)	Amt (in Rs)
1	MR	Re-filling of joints in ACP and glazing by removal of damaged/ faulty joint sealant and refilling of joints with silicon sealant. Existing joints to be cleaned up by removal of residual filler materials and backer rod to be used of appropriate size and masking tape to be applied at both of joints with a uniform gap throughout the joint. After drying/curing of sealant the masking tape to be removed. The rate is inclusive of all the incidental charges, scaffolding required if any etc.	metre	300	210.00	63,000.00
2	MR	Re-grouting the existing ceramic floor tile joints with epoxy based tile joint filler (three component) by widening the joints to 3mm through cut opening the joint, junction of nahani/other trap door frames and floor, junction of wall and tiles etc. After cutting of joints the dust and loose particles to be removed with wire brush, air blower and masking tape to be fixed on both side of the joints at a uniform width to fill the joints neatly. After that the joints and grooves to be filled with the Epoxy Based Tile Joint Filler supplied from Fosroc, Roff, Sika or any other equivalent approved by Engineer-In-Charge adhering manufacturers specifications and requirements. Rate Includes cost of material, labour, transportation, loading and unloading, Scaffolding, all lead and lift, hire charges of cutting, welding, grinding machines, minor repairing of floor, packing of grooves with polymer modified mortar and all other incidental charges etc at site of works for successful completion of work (no extra amount will be paid in this account).	metre	500	176.00	88,000.00
3	MR	Providing & injecting PU foam injection grouts into walls & ceiling through drilled/ inserted injection packers of suitable size. Thereafter the holes shall be injected with Sika injection 101h Flexible water reactive PUR-Injection foam or approved equivalent as per the manufacturer's instruction, specification. Rate is inclusive of cost of material, labour, transportation, loading and unloading, Scaffolding, all lead and lift, hire charges of cutting, welding, grinding machines and all other incidental charges etc... for successful completion of work and as per the directions of the engineer in-charge of the work.	each point	20	686.00	13,720.00
4	MR	Providing and injecting PU injection grouts into walls and ceiling through drilling/ inserting injection packer of suitable size. There after the holes shall be injected with Sika injection 201CE elastic PUR-injection resin for permanent water tight sealing (Solvent free, water reactive 2-part polyurethane resin) or approved equivalent as per the manufacturer's instruction, specification. Rate Includes cost of material, labour, transportation, loading and unloading, Scaffolding, all lead and lift, hire charges of cutting, welding, grinding machines and all other incidental charges etc... for successful completion of work and as per the directions of the engineer in-charge of the work.	each point	20	804.00	16,080.00
5	MR	Providing & fixing unplasticised Rigid PVC SWR pipes conforming to IS : 13592 Type B by cutting, removing, replacing including jointing with seal/rubber ring conforming to IS : 5382 and with solvent cement or rubber lubricant as the case may be.- Pipe of Dia 50 mm	metre	50	374.42	18,720.88
6	MR	Providing & fixing SWR Fittings confirming to IS:14735 including cutting,replacing,jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion. Plain Bend 50 mm dia	each	15	135.18	2,027.74
7	MR	Providing & fixing SWR Fittings confirming to IS:14735 including cutting,replacing,jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion. Tee 50 mm dia	each	10	194.11	1,941.06
8	MR	Providing & fixing unplasticised Rigid PVC SWR pipes conforming to IS : 13592 Type B by cutting, removing, replacing including jointing with seal/rubber ring conforming to IS : 5382 and with solvent cement or rubber lubricant as the case may be.- Pipe of Dia 110 mm	metre	50	867.21	43,360.34
9	MR	Providing & fixing SWR Fittings confirming to IS:14735 including cutting,replacing,jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion. Plain Bend 110 mm dia	each	15	342.18	5,132.75
10	MR	Providing & fixing SWR Fittings confirming to IS:14735 including cutting,replacing,jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion. Door Bend 110 mm dia	each	10	413.61	4,136.12
11	MR	Providing & fixing SWR Fittings confirming to IS:14735 including cutting,replacing,jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion. Tee with door 110 mm dia	each	5	521.36	2,606.80
12	MR	Providing & fixing SWR Fittings confirming to IS:14735 including cutting,replacing,jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion. Nahani Trapwith Jali-110 mm	each	15	388.75	5,831.20
13	MR	Providing & fixing unplasticised Rigid PVC SWR pipes conforming to IS : 13592 Type B by cutting, removing, replacing including jointing with seal/rubber ring conforming to IS : 5382 and with solvent cement or rubber lubricant as the case may be.- Pipe of Dia 160 mm	metre	50	1401.26	70,063.02
14	MR	Providing & fixing SWR Fittings confirming to IS:14735 including cutting,replacing,jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion. Plain Bend 160 mm dia	each	10	712.41	7,124.08

15	MR	Providing & fixing SWR Fittings confirming to IS:14735 including cutting,replacing,jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion. Door Bend 160 mm dia	each	5	765.01	3,825.05
16	MR	Providing & fixing SWR Fittings confirming to IS:14735 including cutting,replacing,jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion. Tee with door 160 mm dia	each	5	1053.20	5,266.00
17	MR	Providing and fixing UPVC high pressure pipes , including all UPVC plain & brass threaded fittings confirming to ASTM: D1785 SCH-80 and ASTM:2467, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step UPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall 25 mm nominal dia Pipes	metre	75	581.91	43,643.09
18	MR	Providing and fixing UPVC high pressure pipes , including all UPVC plain & brass threaded fittings confirming to ASTM: D1785 SCH-80 and ASTM:2467, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step UPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall 32 mm nominal dia Pipes	metre	75	713.82	53,536.16

[illegible]

Annual Repair, Maintenance & Operation (ARMO) works of Civil, Electrical & MEP Services on Lumpsum Service Charges on Deposit Work Basis for Esic Hospital and Staff Quarters at Kandivali Mumbai (Package-3)- Bill of quantity						
Rate Analysis - Civil MR works items						
1	MR	Re-filling of joints in ACP and glazing by removal of damaged/ faulty joint sealant and refilling of joints with selicon sealant. Existing joints to be cleaned up by removal of resudal filler materials and backer rod to be used of appropriate size and maskin tape to be applied at both of joints with a uniform gap throughout the joint. After drying/curing of sealent the masking tape to be removed. The rate is inclusive of all the incidental charges, scaffolding required if any etc.				
	Code	Description	Unit	Rate	Quantity	Total
		Details cost of 100 mtr joint filling				
		Material tile grout density 1750kg / cum				
	MR	for 4mm wide x 6mm depth 100 Rmt joint filling material = 0.004x0.006x1750x100=4.2kg +wastage 5%= 4.41 kg	Kg	1320	4.41	5821.20
	8654	Masking tape	metre	2	200	400.00
	MR	Cutting wheel	each	125	4	500.00
		LABOUR				
	0123	Mason 1st class	Day	897	4	3588.00
	0114	Beldar	Day	736	4	2944.00
		Cost Inxed 28% on DSR Items				1940.96
		TOTAL				15194.16
		Add 1 % for water charges				151.94
		TOTAL				15346.10
		GST 18%				2762.30
		TOTAL				18108.40
		Add 15 % for contractor's profit and overheads				2716.26
						20824.66
		Labour Cess@ 1%				208.25
		Cost of 100 mtr				21032.91
		Cost of 1 mtr				210.33
		Say,				210.00
2	MR	Re-grouting the existing ceramic floor tile joints with epoxy based tile joint filler (three component) of Sika cemcrete 880 or approved equivalent by widening the joints to 4 mm through cut opening the joint, junction of nahani/other trap door frames and floor, junction of wall and tiles etc. After cutting of joints the dust and loose particles to be removed with wire brush, air blower and masking tape to be fixed on both side of the joints at a uniform width to fill the joints neatly. After that the joints and grooves to be filled with the Epoxy Based Tile Joint Filler supplied from Fosroc, Roff, SIKA or any other equivalent approved by Engineer-In-Charge adhering manufacturers specifications and requirements. Rate Includes cost of material, labour, transportation, loading and unloading, Scaffolding, all lead and lift, hire charges of cutting, welding, grinding machines, minor repairing of floor, packing of grooves with polymer modified mortar and all other incidental charges etc at site of works for successful completion of work (no extra amount will be paid in this account).				
	Code	Description	Unit	Rate	Quantity	Total
		Details cost of 100 mtr joint grouting				
		Material tile grout density 1750kg / cum				
	MR	for 4mm wide x 6mm depth 100 Rmt joint filling material = 0.004x0.006x1750x100=4.2kg +wastage 5%= 4.41 kg	Kg	762	4.41	3360.42
	8654	Masking tape	metre	2	200	400.00
	MR	Cutting wheel	each	125	4	500.00
		LABOUR				
	0123	Mason 1st class	Day	897	4	3588.00
	0114	Beldar	Day	736	4	2944.00
		Cost Inxed 28% on DSR Items				1940.96
		TOTAL				12733.38
		Add 1 % for water charges				127.33
		TOTAL				12860.71
		GST 18%				2314.93
		TOTAL				15175.64
		Add 15 % for contractor's profit and overheads				2276.35
						17451.99
		Labour Cess@ 1%				174.52
		Cost of 100 mtr				17626.51
		Cost of 1 mtr				176.27
		Say,				176.00

3	MR	Providing & injecting PU foam injection grouts into walls & ceiling through drilled/ inserted injection packers of suitable size. Thereafter the holes shall be injected with Sika injection 101h Flexible water reactive PUR-Injection foam or approved equivalent as per the manufacturer's instruction, specification. Rate is inclusive of cost of material, labour, transportation, loading and unloading, Scaffoldinf, all lead and lift, hire charges of cutting, welding, grinding machines and all other incidental charges etc... for successful completion of work and as per the directions of the engineer in-charge of the work.				
	Code	Description	Unit	Rate	Quantity	Total
		Details cost for 30 Nos point				
		MATERIAL				
		Sika injection 101h Flexible water reactive PUR-Injection foam average consumption 0.5 ltr per point	Kg	750	15.00	11250.00
	0092	Hire charges of Plant and machinery, it can inject - 350kg/day	Day	250	1	250.00
	9988	Carriage and sundries	L.S.	2.27	13.52	30.69
		LABOUR				
	0157	Nozzle Operator	Day	897	1	897.00
	0123	Mason 1st class	Day	897	1	897.00
	0114	Beldar	Day	736	1	736.00
	9999	Sundries (gloves goggles etc.)	L.S.	2.27	8	18.16
		Cost Inxed 28% on DSR Items				792.08
		TOTAL				14870.93
		Add 1 % for water charges				148.71
		TOTAL				15019.64
		GST 18%				2703.53
		TOTAL				17723.17
		Add 15 % for contractor's profit and overheads				2658.48
		TOTAL				20381.65
		Labour Cess@ 1%				203.82
		Cost for 30 point				20585.46
		Cost for each point				686.18
		Say,				686.00
4	MR	Providing and injecting PU injection grouts into walls and ceiling through drilling/ inserting injection packer of suitable size. There after the holes shall be injected with Sika injection 201CE elastic PUR-injection resin for permanent water tight sealing (Solvent free, water reactive 2-part polyurethane resin) or approved equivalent as per the manufacturer's instruction, specification. Rate Includes cost of material, labour, transportation, loading and unloading, Scaffoldinf, all lead and lift, hire charges of cutting, welding, grinding machines and all other incidental charges etc... for successful completion of work and as per the directions of the engineer in-charge of the work.				
	Code	Description	Unit	Rate	Quantity	Total
		Details cost for 30 Nos point				
		MATERIAL				
		Sika injection 201CE elastic PUR-injection resin average consumption 0.3 ltr per point	Kg	1150	12.00	13800.00
	0092	Hire charges of Plant and machinery, it can inject - 350kg/day	Day	250	1	250.00
	9988	Carriage and sundries	L.S.	2.27	13.52	30.69
		LABOUR				
	157	Nozzle Operator	Day	897	1	897.00
	0123	Mason 1st class	Day	897	1	897.00
	0114	Beldar	Day	736	1	736.00
	9999	Sundries (gloves goggles etc.)	L.S.	2.27	8	18.16
		Cost Inxed 28% on DSR Items				792.08
		TOTAL				17420.93
		Add 1 % for water charges				174.21
		TOTAL				17595.14
		GST 18%				3167.12
		TOTAL				20762.26
		Add 15 % for contractor's profit and overheads				3114.34
		TOTAL				23876.60
		Labour Cess@ 1%				238.77
		Cost for 30 point				24115.37
		Cost for each point				803.85
		Say,				804.00

5	MR	Providing & fixing unplasticised Rigid PVC SWR pipes conforming to IS : 13592 Type B by cutting, removing, replacing including jointing with seal/rubber ring conforming to IS : 5382 and with solvent cement or rubber lubricant as the case may be.- Pipe of Dia 50 mm				
	Code	Description	Unit	Rate	Quantity	Total
		Rigid PVC SWR pipes Dia 50 mm	metre	135	1	135.00
	7190	PVC SWR pipes (working pressure 4 kg /sqcm.)	each	9	1	9.00
		Rubber (Seal) Ring 50 mm dia.				
	9977	Carriage of materials	L.S.	2.27	13.52	30.69
	9999	Adhesive, and sundries etc	L.S.	2.27	6.76	15.35
		LABOUR				
	116	Fitter (grade 1)	Day	897	0.19	17.04
	114	Beldar	Day	736	0.37	27.23
	100	Bandhani	Day	816	0.08	6.53
		Cost Inxed 28% on DSR Items				29.64
		TOTAL				270.48
		Add 1 % for water charges				2.70
		TOTAL				273.18
		GST 18%				49.17
		TOTAL				322.36
		Add 15 % for contractor's profit and overheads				48.35
		TOTAL				370.71
		Labour Cess@ 1%				3.71
		Say				374.42
6	MR	Providing & fixing SWR Fittings confirming to IS:14735 including cutting,replacing,jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion. Plain Bend 50 mm dia				
	Code	Description	Unit	Rate	Quantity	Total
		SWR Plain Bend 50 mm dia, Details of cost for 1 bend	each	51	1.00	51.00
	7190	PVC SWR pipes (working pressure 4 kg / sqcm)	each	9	1	9.00
		Rubber (Seal) Ring 50 mm dia.				
	9999	Adhesive, and sundries etc.	L.S.	2.27	2.73	6.20
	9988	Carriage and fixing charges	L.S.	2.27	9.36	21.25
		Cost Inxed 28% on DSR Items				10.21
		TOTAL				97.66
		Add 1 % for water charges				0.98
		TOTAL				98.63
		GST 18%				17.75
		TOTAL				116.39
		Add 15 % for contractor's profit and overheads				17.46
		TOTAL				133.84
		Labour Cess@ 1%				1.34
		Say				135.18

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9	MR	Providing & fixing SWR Fittings confirming to IS:14735 including cutting,replacing,jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion. Plain Bend 110 mm dia				
	Code	Description	Unit	Rate	Quantity	Total
	MR	SWR Plain Bend 110 mm dia, Details of cost for 1 bend	each	192.55	1.00	192.55
	7191	PVC SWR pipes (working pressure 4 kg / sqcm) Rubber (Seal) Ring 110 mm dia.	each	12	1	12.00
	9999	Adhesive, and sundries etc.	L.S.	2.27	2.73	6.20
	9988	Carriage and fixing charges	L.S.	2.27	10.79	24.49
		Cost Inxed 28% on DSR Items				11.95
		TOTAL				247.19
		Add 1 % for water charges				2.47
		TOTAL				249.67
		GST 18%				44.94
		TOTAL				294.60
		Add 15 % for contractor's profit and overheads				44.19
		TOTAL				338.80
		Labour Cess@ 1%				3.39
		Say				342.18
10	MR	Providing & fixing SWR Fittings confirming to IS:14735 including cutting,replacing,jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion. Door Bend 110 mm dia				
	Code	Description	Unit	Rate	Quantity	Total
	MR	SWR Plain Bend 110 mm dia, Details of cost for 1 bend	each	244.15	1.00	244.15
	7191	PVC SWR pipes (working pressure 4 kg / sqcm) Rubber (Seal) Ring 110 mm dia.	each	12	1	12.00
	9999	Adhesive, and sundries etc.	L.S.	2.27	2.73	6.20
	9988	Carriage and fixing charges	L.S.	2.27	10.79	24.49
		Cost Inxed 28% on DSR Items				11.95
		TOTAL				298.79
		Add 1 % for water charges				2.99
		TOTAL				301.78
		GST 18%				54.32
		TOTAL				356.10
		Add 15 % for contractor's profit and overheads				53.42
		TOTAL				409.52
		Labour Cess@ 1%				4.10
		Say				413.61

11	MR	Providing & fixing SWR Fittings confirming to IS:14735 including cutting,replacing,jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion. Tee with door 110 mm dia				
	Code	Description	Unit	Rate	Quantity	Total
	MR	SWR Plain Tee 110 mm dia, Details of cost for 1 Tee	each	310.8	1.00	310.80
	7190	PVC SWR pipes (working pressure 4 kg / sqcm) Rubber (Seal) Ring 110 mm dia.	each	9	3	27.00
	9988	Adhesive, Carriage of material rubber washer etc. including fixing charge	L.S.	2.27	10.76	24.43
		Cost Inxed 28% on DSR Items				14.40
		TOTAL				376.63
		Add 1 % for water charges				3.77
		TOTAL				380.40
		GST 18%				68.47
		TOTAL				448.87
		Add 15 % for contractor's profit and overheads				67.33
		TOTAL				516.20
		Labour Cess@ 1%				5.16
		Say				521.36
12	MR	Providing & fixing SWR Fittings confirming to IS:14735 including cutting,replacing,jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion. Nahani Trap with Jali-110 mm				
	Code	Description	Unit	Rate	Quantity	Total
	MR	SWR Nahani Trap 110 mm dia, Details of cost for 1 Nahani Trap	each	215	1.00	215.00
	7190	PVC SWR Nahani Trap (working pressure 4 kg / sqcm) Rubber (Seal) Ring 110 mm dia.	each	9	3	27.00
	9988	Adhesive, Carriage of material rubber washer etc. including fixing charge	L.S.	2.27	10.76	24.43
		Cost Inxed 28% on DSR Items				14.40
		TOTAL				280.83
		Add 1 % for water charges				2.81
		TOTAL				283.64
		GST 18%				51.05
		TOTAL				334.69
		Add 15 % for contractor's profit and overheads				50.20
		TOTAL				384.90
		Labour Cess@ 1%				3.85
		Say				388.75

13	MR	Providing & fixing S unplasticised Rigid PVC SWR pipes conforming to IS : 13592 Type B by cutting, removing, replacing including jointing with seal/rubber ring conforming to IS : 5382 and with solvent cement or rubber lubricant as the case may be.- Pipe of Dia 160 mm				
	Code	Description	Unit	Rate	Quantity	Total
	MR	Rigid PVC SWR pipes Dia 160 mm	metre	842.2	1	842.20
	7190	PVC SWR pipes (working pressure 4 kg /sqcm.) Rubber (Seal) Ring 160 mm dia.	each	12	1	12.00
	9977	Carriage of materials	L.S.	2.27	17.55	39.84
	9999	Adhesive, and sundries etc	L.S.	2.27	8.06	18.30
		LABOUR				
	116	Fitter (grade 1)	Day	897	0.23	20.63
	114	Beldar	Day	736	0.45	33.12
	100	Bandhani	Day	816	0.11	8.98
		Cost Inxed 28% on DSR Items				37.20
		TOTAL				1012.27
		Add 1 % for water charges				10.12
		TOTAL				1022.39
		GST 18%				184.03
		TOTAL				1206.42
		Add 15 % for contractor's profit and overheads				180.96
		TOTAL				1387.39
		Labour Cess@ 1%				13.87
		Say				1401.26
14	MR	Providing & fixing SWR Fittings confirming to IS:14735 including cutting,replacing,jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion. Plain Bend 160 mm dia				
	Code	Description	Unit	Rate	Quantity	Total
	MR	SWR Plain Bend 160 mm dia, Details of cost for 1 bend	each	460	1.00	460.00
	7191	PVC SWR pipes (working pressure 4 kg / sqcm) Rubber (Seal) Ring 160 mm dia.	each	12	1	12.00
	9999	Adhesive, and sundries etc.	L.S.	2.27	2.73	6.20
	9988	Carriage and fixing charges	L.S.	2.27	10.79	24.49
		Cost Inxed 28% on DSR Items				11.95
		TOTAL				514.64
		Add 1 % for water charges				5.15
		TOTAL				519.79
		GST 18%				93.56
		TOTAL				613.35
		Add 15 % for contractor's profit and overheads				92.00
		TOTAL				705.35
		Labour Cess@ 1%				7.05
		Say				712.41

15	MR	Providing & fixing SWR Fittings confirming to IS:14735 including cutting,replacing,jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion. Door Bend 160 mm dia				
	Code	Description	Unit	Rate	Quantity	Total
	MR	SWR Plain Bend 160 mm dia, Details of cost for 1 bend	each	498	1.00	498.00
	7191	PVC SWR pipes (working pressure 4 kg / sqcm) Rubber (Seal) Ring 160 mm dia.	each	12	1	12.00
	9999	Adhesive, and sundries etc.	L.S.	2.27	2.73	6.20
	9988	Carriage and fixing charges	L.S.	2.27	10.79	24.49
		Cost Inxed 28% on DSR Items				11.95
		TOTAL				552.64
		Add 1 % for water charges				5.53
		TOTAL				558.17
		GST 18%				100.47
		TOTAL				658.64
		Add 15 % for contractor's profit and overheads				98.80
		TOTAL				757.44
		Labour Cess@ 1%				7.57
		Say				765.01
16	MR	Providing & fixing SWR Fittings confirming to IS:14735 including cutting,replacing,jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion. Tee with door 160 mm dia				
	Code	Description	Unit	Rate	Quantity	Total
	MR	SWR Plain Tee 160 mm dia, Details of cost for 1 Tee	each	695	1.00	695.00
	7190	PVC SWR pipes (working pressure 4 kg / sqcm) Rubber (Seal) Ring 160 mm dia.	each	9	3	27.00
	9988	Adhesive, Carriage of material rubber washer etc. including fixing charge	L.S.	2.27	10.76	24.43
		Cost Inxed 28% on DSR Items				14.40
		TOTAL				760.83
		Add 1 % for water charges				7.61
		TOTAL				768.44
		GST 18%				138.32
		TOTAL				906.76
		Add 15 % for contractor's profit and overheads				136.01
		TOTAL				1042.77
		Labour Cess@ 1%				10.43
		Say				1053.20

17	MR	Providing and fixing UPVC high pressure pipes , including all UPVC plain & brass threaded fittings confirming to ASTM D1785, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step UPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall 25 mm nominal dia Pipes				
	Code	Description	Unit	Rate	Quantity	Total
	MR	Rigid UPVC pipes Dia 25 mm	metre	174.4	1	174.40
		Add 30% for fittings and wastage etc				52.32
	9999	Cement, sand and grit etc	L.S.	2.27	2.73	6.20
		LABOUR				
	116	Fitter (grade 1)	Day	897	0.33	29.60
	117	Assistant Fitter or 2nd class Fitter	Day	816	0.82	66.91
	114	Beldar	Day	736	0.66	48.58
		Cost Inxed 28% on DSR Items				42.36
		TOTAL				420.37
		Add 1 % for water charges				4.20
		TOTAL				424.57
		GST 18%				76.42
		TOTAL				501.00
		Add 15 % for contractor's profit and overheads				75.15
		TOTAL				576.15
		Labour Cess@ 1%				5.76
		Say				581.91
18	MR	Providing and fixing UPVC high pressure pipes , including all UPVC plain & brass threaded fittings confirming to ASTM D1785, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step UPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall 32 mm nominal dia Pipes				
	Code	Description	Unit	Rate	Quantity	Total
	MR	Rigid UPVC pipes Dia 32 mm	metre	247.7	1	247.70
		Add 30% for fittings and wastage etc				74.31
	9999	Cement, sand and grit etc	L.S.	2.27	2.73	6.20
		LABOUR				
	116	Fitter (grade 1)	Day	897	0.33	29.60
	117	Assistant Fitter or 2nd class Fitter	Day	816	0.82	66.91
	114	Beldar	Day	736	0.66	48.58
		Cost Inxed 28% on DSR Items				42.36
		TOTAL				515.66
		Add 1 % for water charges				5.16
		TOTAL				520.82
		GST 18%				93.75
		TOTAL				614.56
		Add 15 % for contractor's profit and overheads				92.18
		TOTAL				706.75
		Labour Cess@ 1%				7.07
		Say				713.82

19	MR	Providing and fixing UPVC high pressure pipes , including all UPVC plain & brass threaded fittings confirming to ASTM D1785, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step UPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall 40 mm nominal dia Pipes				
	Code	Description	Unit	Rate	Quantity	Total
	MR	Rigid UPVC pipes Dia 40 mm	metre	315.4	1	315.40
		Add 30% for fittings and wastage etc				94.62
	9999	Cement, sand and grit etc	L.S.	2.27	2.73	6.20
		LABOUR				
	116	Fitter (grade 1)	Day	897	0.33	29.60
	117	Assistant Fitter or 2nd class Fitter	Day	816	0.82	66.91
	114	Beldar	Day	736	0.66	48.58
		Cost Inxed 28% on DSR Items				42.36
		TOTAL				603.67
		Add 1 % for water charges				6.04
		TOTAL				609.71
		GST 18%				109.75
		TOTAL				719.45
		Add 15 % for contractor's profit and overheads				107.92
		TOTAL				827.37
		Labour Cess@ 1%				8.27
		Say				835.65
20	MR	Providing and fixing UPVC high pressure pipes , including all UPVC plain & brass threaded fittings confirming to ASTM D1785, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step UPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall 80 mm nominal dia Pipes				
	Code	Description	Unit	Rate	Quantity	Total
	MR	Rigid UPVC pipes Dia 80 mm	metre	486	1	486.00
		Add 30% for fittings and wastage etc				145.80
	9999	Cement, sand and grit etc	L.S.	2.27	2.73	6.20
		LABOUR				
	116	Fitter (grade 1)	Day	897	0.33	29.60
	117	Assistant Fitter or 2nd class Fitter	Day	816	0.82	66.91
	114	Beldar	Day	736	0.66	48.58
		Cost Inxed 28% on DSR Items				42.36
		TOTAL				825.45
		Add 1 % for water charges				8.25
		TOTAL				833.70
		GST 18%				150.07
		TOTAL				983.77
		Add 15 % for contractor's profit and overheads				147.57
		TOTAL				1131.34
		Labour Cess@ 1%				11.31
		Say				1142.65

21	MR	Providing Drip seal (PJS-43) joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter 100 mm				
	Code	Description	Unit	Rate	Quantity	Total
	MR	Drip seal (PJS-43)	each	180	1	180.00
	9977	Carriage of materials	L.S.	2.27	17.55	39.84
	9999	Adhesive, and sundries etc	L.S.	2.27	8.06	18.30
		LABOUR				
	116	Fitter (grade 1)	Day	897	0.23	20.63
	114	Beldar	Day	736	0.45	33.12
	100	Bandhani	Day	816	0.11	8.98
		Cost Inxed 28% on DSR Items				33.84
		TOTAL				334.71
		Add 1 % for water charges				3.35
		TOTAL				338.06
		GST 18%				60.85
		TOTAL				398.91
		Add 15 % for contractor's profit and overheads				59.84
		TOTAL				458.74
		Labour Cess@ 1%				4.59
		Say				463.33
22	MR	Providing & fixing polycarbonate sheet of approved branded and manufacture in the window paneling wherever necessary in all sizes as per direction of Engineer – in – charge 3 mm thick Poly carbonate sheet				
	Code	Description	Unit	Rate	Quantity	Total
	MR	Polycarbonate sheet	Sqm	1110	1	1110.00
	9999	Carriage of sheets	L.S.	654	1	654.00
	3074	Stainless steel self tapping screw of 6x50mm with SS hex cap and 3mm thick EPDM seal (per sqm 4 nos) 216.14x4=864.55 no's	100 Nos	511	1	511.00
	9999	Carriage of screws, washers	each	2.27	1	2.27
	9999	Sundries	L.S.	2.27	39.52	89.71
		LABOUR				
	13	Mistry	Day	897	0.23	20.63
	112	Beldar	Day	816	0.45	36.72
	114	Bandhani	Day	736	0.11	8.10
		Cost Inxed 28% on DSR Items				370.28
		TOTAL				2802.71
		Add 1 % for water charges				28.03
		TOTAL				2830.73
		GST 18%				509.53
		TOTAL				3340.27
		Add 15 % for contractor's profit and overheads				501.04
		TOTAL				3841.31
		Labour Cess@ 1%				38.41
		Say				3879.72

23	MR	Supplying and fixing of self adhesive eco-vinyl multicolor sticker pasted on 4mm Acrylic sheet of different size with hooks for hanging. Eco-solvent ink should be used and printing should be of high resolution. The rate includes of DTP and Designing.				
	Code	Description	Unit	Rate	Quantity	Total
	MR	Eco-vinyl multicolor sticker pasted on 4mm Acrylic sheet	each	1396.2	1	1396.20
	9977	Carriage of materials	L.S.	2.27	17.55	39.84
	9999	Adhesive, and sundries etc	L.S.	2.27	8.06	18.30
		LABOUR				
	116	Fitter (grade 1)	Day	897	0.23	20.63
	114	Beldar	Day	736	0.45	33.12
	100	Bandhani	Day	816	0.11	8.98
		Cost Inxed 28% on DSR Items				33.84
		TOTAL				1550.91
		Add 1 % for water charges				15.51
		TOTAL				1566.42
		GST 18%				281.96
		TOTAL				1848.37
		Add 15 % for contractor's profit and overheads				277.26
		TOTAL				2125.63
		Labour Cess@ 1%				21.26
		Say				2146.89
24	MR	Providing and plastering with premixed readymade cement mortar such as 'READYPLAST' of Ultratech or 'EASYPLAST' of Walplast Products Pvt. Ltd or equivalent, manufactured in automated dry mix batching plant where Cement, sand and polymer additive are mixed in pre-determined ratio (as per manufacturer specification). In one coat 6 to 7 litre potable water (as per manufacturer specification) shall be added to 40 kg of readymix dry mortar on mortar mixing G.I tray and shall be mixed well for 4-5 minutes. The mortar shall be left undisturbed for 3-5 minutes to dissolve additive and shall be mixed once again to form cohesive and consistent mix. - 6 mm average thickness.				
		Description	Qty	Unit	Rate	Total
		(Similar to DAR 2023, item No. 13.16.1)				
		Details of cost of 10 sqm				
		MATERIAL				
		Premixed ready made plaster for 6 mm @ 12.82 kg / sqm + 5% wastage (or) 128.20 + 6.41 kg = 134.61 kg per 10 sqm.	134.61	kg	4.75	639.40
		LABOUR				
	0155	Mason (average)	0.51	day	905.00	461.55
	0115	Coolie	0.75	day	778.00	583.50
	0101	Bhisti	0.92	day	862.00	793.04
	9999	Extra for removing burrs, cleaning with wire brushes, pock making with pointed tool etc. complete.	13.39	LS	2.63	35.22
	9999	Scaffolding and sundries	11.70	LS	2.63	30.77
		Total (W)				2543.48
		Add 1 % Water charges on "W"				25.43
		Total				2568.91
		Add GST on "X" (multiplying factor 0.2127)				546.41
		Total				3115.32
		Add 15% CPOH on "Y"				467.30
		Total				3582.62
		Add Cess @ 1% on "Z"				35.83
		Cost of 10 sqm				3618.45
		Cost of 1 sqm				361.85
		Say				361.85

25	MR	Providing and plastering with premixed readymade cement mortar such as 'READYPLAST' of Ultratech or 'EASYPLAST' of WalPlast Products Pvt. Ltd or equivalent, manufactured in automated dry mix batching plant where Cement, sand and polymer additive are mixed in pre-determined ratio (as per manufacturer specification). In one coat 6 to 7 litre potable water (as per manufacturer specification) shall be added to 40 kg of readymix dry mortar on mortar mixing G.I tray and shall be mixed well for 4-5 minutes. The mortar shall be left undisturbed for 3-5 minutes to dissolve additive and shall be mixed once again to form cohesive and consistent mix. - 12 mm average thickness.				
		Description	Qty	Unit	Rate	Total
		Based on item no. 13.13				
		Details of cost of 10 sqm				
		MATERIAL				
		Premixed ready made plaster for 12 mm @ 28.28 kg / sqm + 5% wastage (or) 282.80 + 14.14 kg = 296.96 kg per 10 sqm.	296.96	kg	4.75	1410.56
		LABOUR				
	0155	Mason (average)	0.67	day	905.00	606.35
	0115	Coolie	0.75	day	778.00	583.50
	0101	Bhisti	0.92	day	862.00	793.04
	9999	Scaffolding and sundries	12.61	LS	2.63	33.16
		Total (W)				3426.61
		Add 1 % Water charges on "W"				34.27
		Total				3460.88
		Add GST on "X" (multiplying factor 0.2127)				736.13
		Total				4197.01
		Add 15% CPOH on "Y"				629.55
		Total				4826.56
		Add Cess @ 1% on "Z"				48.27
		Cost of 10 sqm				4874.83
		Cost of 1 sqm				487.48
		Say				487.50
26	MR	Providing and plastering with premixed readymade cement mortar such as 'READYPLAST' of Ultratech or 'EASYPLAST' of WalPlast Products Pvt. Ltd or equivalent, manufactured in automated dry mix batching plant where Cement, sand and polymer additive are mixed in pre-determined ratio (as per manufacturer specification). 18 mm average thickness in two coats, under layer 12 mm thick cement plaster and top layer 6mm thick cement plaster finished rough with sponge 6 to 7 liter potable water (as per manufacturer specification) shall be added to 40 kg of readymix dry mortar on mortar mixing G.I tray and shall be mixed well for 4-5 minutes. The mortar shall be left undisturbed for 3-5 minutes to dissolve additive and shall be mixed once again to form cohesive and consistent mix.				
		Description	Qty	Unit	Rate	Total
		(Similar to DAR 2021, item No. 13.12 / Vol - II / Page - 908)				
		Details of cost of 10 sqm				
		MATERIAL				
		Premixed ready made plaster for 18 mm @ 38.98 kg / sqm + 5% wastage (or) 389.80 + 19.49 kg = 409.29 kg per 10 sqm.	409.29	kg	4.75	1944.13
		LABOUR				
	0155	Mason (average)	1.21	day	905.00	1095.05
	0115	Coolie	1.29	day	778.00	1003.62
	0101	Bhisti	1.05	day	862.00	905.10
	9999	Scaffolding and sundries	12.61	LS	2.63	33.16
		Total (W)				4981.06
		Add 1 % Water charges on "W"				49.81
		Total				5030.87
		Add GST on "X" (multiplying factor 0.2127)				1070.07
		Total				6100.94
		Add 15% CPOH on "Y"				915.14
		Total				7016.08
		Add Cess @ 1% on "Z"				70.16
		Cost of 10 sqm				7086.24
		Cost of 1 sqm				708.62
		Say				708.60

Annual Repair, Maintenance & Operation (ARMO) works of Civil, Electrical & MEP Services on Lumpsum Service Charges on Deposit Work Basis for Esic Hospital and Staff Quarters at Kandivali Mumbai (Package-3)- Bill of quantity						
Civil DSR Materials						
Sl. No.	DSR Ref No	Description of Item	Unit	Quantity	Rate	Amount
1	0295	Stone Aggregate (Single size) : 20 mm nominal siz	cum	5.00	1425.00	7,125.00
2	0367	Portland Cement (OPC-43 grade)	tonne	5.00	5156.00	25,780.00
3	0982	Coarse sand (zone III)	cum	12.00	1450.00	17,400.00
4	1005	Twisted steel/ deformed TMT bars Fe-500D	quintal	2.00	5550.00	11,100.00
5	1986	Common burnt clay modular bricks class designation 12.5	1000 nos	3.00	5450.00	16,350.00
6	7297	Granite of any colour, 18 mm thick (slab area above 0.50 sqm)	sqm	20.00	1076.00	21,520.00
7	0401	Brass tower bolt (barrel type) 200x10 mm	each	50.00	230.00	11,500.00
8	0417	Brass 150 mm floor door stopper weighing not less than 0.357kg	each	200.00	175.00	35,000.00
9	0432	Brass hasps and staples (safety type) 115 mm	10 nos	5.00	737.00	3,685.00
10	0526	Chromium plated Brass butt hinges (light/ordinary) type 100x70x4 mm	10 nos	10.00	635.00	6,350.00
11	0554	125mm SS fancy handles for kitchen cabinet	10 nos	10.00	710.00	7,100.00
12	0555	Chromium plated Brass handles 125 mm with plate 175 x32 mm	each	100.00	152.00	15,200.00
13	0584	Chromium plated Brass Wardrobe Knob 50 mm	each	30.00	93.00	2,790.00
14	8210	Stainless steel screws 50 mm	100 nos	3.00	320.00	960.00
15	8211	Stainless steel screws 40 mm	100 nos	3.00	270.00	810.00
16	8212	Stainless steel screws 30 mm	100 nos	3.00	255.00	765.00
17	8214	Stainless steel screws 20 mm	100 nos	20.00	175.00	3,500.00
18	7312	Expandable fastener with plastic sleeve and M.S. screws : 25 mm long	each	1000.00	11.00	11,000.00
19	7315	Expandable fastener with plastic sleeve and M.S. screws : 50 mm long	each	300.00	15.00	4,500.00
20	0592	Chromium plated Brass curtain rod 25 mm dia 1.25mm thick	meter	80.00	347.00	27,760.00

21	7036	Nickel plated M.S - Brackets for curtain rod 25 mm	each	160.00	9.00	1,440.00
22	0697	Anodised Aluminium sliding door bolt 250x16 mm	each	50.00	130.00	6,500.00
23	2471	Nickled Chromium Brass cupboard lock 75 mm size	each	100.00	127.00	12,700.00
24	2486	Pre-laminated with decorative lamination one side and other side balancing lamination exterior Grade-I MDF Board 25 mm thick confirming to IS: 14587	sqm	5.00	903.00	4,515.00
25	2407	Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm)	sqm	40.00	529.00	21,160.00
26	8726	1.5 mm thick decorative laminated sheet	sqm	20.00	418.00	8,360.00
27	7113	Rectangular shape 453x357 mm Mirror with Plastic moulded frame	each	100	307.00	30,700.00
28	8566	Powder coated steel section main-T ceiling sections 15x42x0.40 mm (3000 mm long)	each	100.00	296.00	29,600.00
29	8568	Powder coated Galvanised Iron intermediate cross-T section 15x42x0.40 mm (1200 mm long)	each	200.00	120.00	24,000.00
30	8569	Powder coated Galvanized Iron intermediate cross-T section 15x42x0.40mm (600 mm long)	each	350.00	60.00	21,000.00
31	0641	Bright finished or black enameled mild steel bolts and nuts 50x6 mm	each	10.00	6.00	60.00
32	1964	Bolts and nuts 27 mm dia 100 mm long	each	20.00	40.00	800.00
33	7480	Prelaminated particle board with both sides decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS : 12823 (exterior grade) 12 mm thick	sqm	40.00	534.00	21,360.00
34	8600	GI Metal Tile Lay-in Perforated Tegular edge global white color tiles of Size 595x595mm and 0.5 mm thick	sqm	80.00	812.00	64,960.00
35	8646	Weather Silicon sealant	cartridge	150.00	125.00	18,750.00
36	8778	Toughened glass 12 mm thickness	sqm	15.00	1925.00	28,875.00

37	2618	6 mm thick clear heat strengthened glass	sqm	25.00	679.00	16,975.00
38	2631	4 mm thick ACP	sqm	25.00	1134.00	28,350.00
39	7803	Rectified Ceramic Glazed Tiles 1st quality 300 x 300 mm or more in all shades designs White, Ivory, Grey, Fume Red Brown etc.	sqm	7.00	375.00	2,625.00
40	0368	White Cement	tonne	0.30	10500.00	3,150.00
41	0869	Plaster of Paris	kg	10.00	7.00	70.00
42	1309	C.I. bracket for wash basin and sinks	pair	50.00	95.00	4,750.00
43	1313	8 mm dia C.P. Brass/ S.S. Jet with flexible tube upto 1 metre long with S.S. tringular plate for Eueopean type W.C.	each	100.00	220.00	22,000.00
44	1396	Vitreous china pedestal for wash basin	each	15.00	1000.00	15,000.00
45	1872	White vitreous china laboratory sink 600x450x200 mm	each	2.00	2750.00	5,500.00
46	1875	White plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	75.00	451.00	33,825.00
47	1922	H.P. or L.P. ball valve with polythene floats: 15 mm dia	each	100.00	237.00	23,700.00
48	1947	Vitreous china flat back wash basin 630x450 mm	each	25.00	798.00	19,950.00
49	1951	C.P. brass waste 32 mm	each	60.00	94.00	5,640.00
50	1952	C.P. brass waste 40 mm	each	50.00	110.00	5,500.00
51	7096	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 225 mm	each	15.00	3600.00	54,000.00
52	7101	Stainless steel kitchen sink - without drain board 610x510 mm bowl depth 200 mm	each	20.00	2350.00	47,000.00
53	7117	Semi Rigid PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	300.00	27.00	8,100.00
54	7118	Semi Rigid PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	20.00	36.00	720.00
55	7358	Flushing Cistern P.V.C. 10 litre capacity (low level) (White) (with fittings, accessories and flush pipe	each	50.00	621.00	31,050.00
56	7257	C.P. Brass bibcock 15mm	each	120.00	330.00	39,600.00

57	7259	C.P. Brass long body bibcock 15 mm	each	100.00	530.00	53,000.00
58	7261	C.P. Brass angle valve 15 mm	each	150.00	378.00	56,700.00
59	7400	15 mm PTMT bib cock	each	50.00	70.00	3,500.00
60	7402	15 mm PTMT bib cock long body with flar	each	30.00	106.00	3,180.00
61	7403	15 mm dia PTMT stop cock (male thread)	each	30.00	65.00	1,950.00
62	7406	PTMT pillar cock	each	50.00	125.00	6,250.00
63	1689	Unplasticised P.V.C. connection pipe with brass union 45 cm long 15 mm bore	each	300.00	38.00	11,400.00
64	0593	C.P. Brass Extension Nipple (1/2"x2" size)	each	200.00	46.00	9,200.00
65	7121	Bottle Trap	each	5.00	682.00	3,410.00
66	1931	Brass full way valve with C.I. wheel (screwed end) 65 mm dia	each	10.00	1188.00	11,880.00
67	1932	Brass full way valve with C.I. wheel (screwed end) 80 mm dia	each	10.00	1788.00	17,880.00
68	7189	uPVC pipes (working pressure 4 kg / cm2) Single socketed pipe size 110 mm dia	metre	150.00	142.00	21,300.00
69	7193	uPVC coupler for UPVC drainage pipes 110 mm	each	30.00	41.00	1,230.00
70	7199	uPVC single equal Tee (with door) 110x110x110 mm	each	10.00	98.00	980.00
71	7209	UPVC bend 87.5° 110 mm bend	each	50.00	63.00	3,150.00
72	5001	Mobil oil	litre	50.00	350.00	17,500.00
73	5772	Grease	kg	20.00	195.00	3,900.00
74	1938	Non return Valve	each	10.00	2530.00	25,300.00
Sub Total						1,144,190.00
Add zonal cost index 16%						183,070.40
Total						1,327,260.40
			Add CPOH 15%			199,089.06
		Total Civil DSR Material without GST (A)				1,526,349.46
		Add GST 18%				274,742.90
		Total Civil DSR Material with GST				1,801,092.36
Civil MR Material Items						
SI No	MR	Description of Item	Unit	Quantity	Rate	Amount
		Providing of Unplasticised Rigid PVC SWR Pipes and Fittings conforming to IS : 13592 Type B				
1	MR	PVC Pipe of dia 40 mm	metre	200.00	94.10	18,820.00
2	MR	PVC Bend 40 mm	each	50.00	50.00	2,500.00
3	MR	PVC collar 40 mm	each	30.00	49.25	1,477.50

4	MR	PVC Equal tee 40 mm	each	10.00	54.00	540.00
5	MR	Clip for SWR pipe work 40 mm	each	200.00	5.00	1,000.00
6	MR	PVC Pipe of dia 50 mm dia	metre	200.00	135.00	27,000.00
7	MR	PVC Bend 50 mm	each	50.00	51.00	2,550.00
8	MR	PVC collar 50 mm	each	30.00	50.00	1,500.00
9	MR	PVC Equal tee 50mm	each	10.00	55.00	550.00
10	MR	Clip for SWR pipe work 50 mm	each	200.00	6.00	1,200.00
11	MR	PVC Pipe of dia 75 mm	metre	100.00	308.70	30,870.00
12	MR	PVC Bend 75 mm	each	50.00	99.85	4,992.50
13	MR	PVC collar 75 mm	each	30.00	91.65	2,749.50
14	MR	PVC Equal tee 75 mm	each	10.00	129.00	1,290.00
15	MR	Clip for SWR pipe work 75 mm	each	200.00	7.00	1,400.00
16	MR	PVC Pipe of dia 110 mm	metre	100.00	456.40	45,640.00
17	MR	PVC Bend 110 mm	each	50.00	192.55	9,627.50
18	MR	PVC collar 110 mm	each	30.00	156.85	4,705.50
19	MR	PVC Equal door tee 110 mm	each	10.00	310.80	3,108.00
20	MR	Clip for SWR pipe work 110 mm	each	200.00	8.00	1,600.00
21	MR	PVC 'S' Trap 110mm	each	30.00	297.00	8,910.00
22	MR	PVC 'P' Trap 110mm	each	100.00	185.00	18,500.00
23	MR	PVC Pipe of dia 160 mm	metre	50.00	842.20	42,110.00
24	MR	PVC Plain Bend 160 mm	each	25.00	460.00	11,500.00
25	MR	PVC collar 160 mm	each	15.00	185.00	2,775.00
26	MR	PVC Equal Door tee 160 mm	each	5.00	695.00	3,475.00
27	MR	Clip for SWR pipe work 160 mm	each	100.00	10.00	1,000.00
28	MR	PVC-U Solvent Cement for SWR applications	ml	12000.00	0.89	10,632.00
		Providing of UPVC Pipes and Fittings conforming to ASTM: D1785 SCH-80 and ASTM:2467				-
29	MR	UPVC Pipe of dia 25 mm	metre	100.00	174.40	17,440.00
30	MR	UPVC Bend 25 mm	each	20.00	37.35	747.00
31	MR	UPVC collar 25 mm	each	10.00	21.90	219.00
32	MR	UPVC Equal tee 25 mm	each	10.00	40.70	407.00
33	MR	UPVC-Brass MTA 25 mm	each	5.00	250.50	1,252.50
34	MR	UPVC-Brass FTA 25 mm	each	5.00	229.35	1,146.75
35	MR	UPVC Ball Valve Plastic 25 mm	each	10.00	26.00	260.00
36	MR	Clip for UPVC pipe 25 mm	each	100.00	2.00	200.00
37	MR	UPVC Pipe of dia 32 mm	metre	100.00	247.70	24,770.00
38	MR	UPVC Bend 32 mm	each	20.00	55.80	1,116.00
39	MR	UPVC collar 32 mm	each	10.00	36.70	367.00
40	MR	UPVC Equal tee 32 mm	each	10.00	73.25	732.50
41	MR	UPVC-Brass MTA 32 mm	each	5.00	525.00	2,625.00
42	MR	UPVC-Brass FTA 32 mm	each	5.00	442.00	2,210.00
43	MR	UPVC Ball Valve Plastic 32 mm	each	10.00	831.00	8,310.00

44	MR	Clip for UPVC pipe 32 mm	each	100.00	3.00	300.00
45	MR	UPVC Pipe of dia 40 mm	metre	100.00	315.40	31,540.00
46	MR	UPVC Bend 40 mm	each	20.00	131.90	2,638.00
47	MR	UPVC collar 40 mm	each	10.00	77.90	779.00
48	MR	UPVC Equal tee 40 mm	each	10.00	161.40	1,614.00
49	MR	UPVC-Brass MTA 40 mm	each	5.00	600.00	3,000.00
50	MR	UPVC-Brass FTA 40 mm	each	5.00	631.00	3,155.00
51	MR	UPVC Ball Valve Plastic 40 mm	each	10.00	70.00	700.00
52	MR	Clip for UPVC pipe 40 mm	each	100.00	4.00	400.00
53	MR	UPVC Pipe of dia 50 mm	metre	100.00	415.50	41,550.00
54	MR	UPVC Bend 50 mm	each	20.00	128.15	2,563.00
55	MR	UPVC collar 50 mm	each	10.00	71.65	716.50
56	MR	UPVC Equal tee 50 mm	each	10.00	158.35	1,583.50
57	MR	UPVC-Brass MTA 50 mm	each	5.00	1177.00	5,885.00
58	MR	UPVC-Brass FTA 50 mm	each	5.00	1054.00	5,270.00
59	MR	UPVC Ball Valve Plastic 50 mm	each	10.00	1263.00	12,630.00
60	MR	Clip for UPVC pipe 50 mm	each	100.00	5.00	500.00
61	MR	UPVC Pipe of dia 80 mm	metre	100.00	486.00	48,600.00
62	MR	UPVC Bend 80 mm	each	20.00	177.00	3,540.00
63	MR	UPVC collar 80 mm	each	10.00	165.35	1,653.50
64	MR	UPVC Equal tee 80 mm	each	10.00	328.15	3,281.50
65	MR	UPVC-Brass MTA 80 mm	each	5.00	1210.00	6,050.00
66	MR	UPVC-Brass FTA 80 mm	each	5.00	1100.00	5,500.00
67	MR	UPVC Ball Valve Plastic 80 mm	each	10.00	150.00	1,500.00
68	MR	Clip for UPVC pipe 80 mm	each	100.00	6.00	600.00
		Providing of Other Items				-
69	MR	Spare brass spare Spindle suitable for Jaquar/Hindware/Cera Bibcock, pillar cock.	each	75.00	255.00	19,125.00
70	MR	Spare brass spare Spindle suitable for Jaquar/Hindware/Cera concealed angle valve/stop cock	each	75.00	250.00	18,750.00
71	MR	C.P. Brass bibcock 15mm, Jaquar make cat. no. 037 or approved equivalent	each	50.00	550.00	27,500.00
72	MR	C.P. Brass long body bibcock 15 mm, Jaquar make cat. no.107 or approved equivalent	each	25.00	600.00	15,000.00
73	MR	C.P. Brass Pillar cock - 15mm dia Jaquar make cat. no. 021KN or approved equivalent	each	25.00	1000.00	25,000.00
74	MR	C.P Pillar Cock with Extended Lever Handle Jaquar make FLR-CHR-5031N or approved equivalent.	each	10.00	2000.00	20,000.00

75	MR	C.P. Central hole wash basin mixer - 15mm dia Jaquar make cat. no. 167KNB or approved equivalent	each	5.00	2550.00	12,750.00
76	MR	Health faucet Jaquar make cat no ALD-CHR-563 or approved equivalent	each	10.00	1625.00	16,250.00
77	MR	Urinal Valve Auto Closing System with Built-in Control Cock & Wall Flange - Jaquar make code no PRS-CHR-077 or approved equivalent.	each	10.00	2190.00	21,900.00
78	MR	Urinal Spreader -CERA make Model No F8070201or approved equivalent	each	15.00	789.00	11,835.00
79	MR	Goodrej hydraulic door closer C017 lock r approved equivalent	each	15.00	1290.00	19,350.00
80	MR	Dorset FS 120 Floor Spring without BP/TP or approved equivalent	each	20.00	1650.00	33,000.00
81	MR	Aluminium Sliding Window Concealed Lock size not less than 150 mm.	each	100.00	379.00	37,900.00
82	MR	Drip seal (PJS-43)	kg	100.00	170.00	17,000.00
83	MR	Sika latex power SBR polymer or approved equivalent	litre	100.00	275.00	27,500.00
						-
Total						832,234.25
Add CPOH 15%						124,835.14
Total Civil MR Material without GST (B)						957,069.39
Add GST 18%						172,272.49
Total Civil MR Material with GST						1,129,341.88

Grand Total for Civil DSR & MR Material with GST						2,930,434.24
Grand Total for Civil DSR & MR Material without (A+B)						2,483,418.85

Annual Repair, Maintenance & Operation (ARMO) works of Civil, Electrical & MEP Services on Lumpsum Service Charges on Deposit Work Basis for Esic Hospital and Staff Quarters at Kandivali Mumbai (Package-3)- Bill of quantity											
S.No	Description	Qualification	Category	Duty hours/Shift	Manpower	Reliever	Total Manpower	Rates per Month	Total Cost for One Month	Total Cost for one year	Remarks
1	Supervisor (Electrical)	Diploma in Electrical Engineering with 10 year experience/BE electrical with 3year experience/ (electrical supervisory license) in Maintenance Job	Highly Skilled	General Duty	1.00		1.00	32,897.00	32,897.00	394,764.00	
4	Electrician	ITI Certificate with 3 year of Experience/ Wireman license holder compulesary	Skilled	1(per shift)	3.00	0.50	3.50	30,475.00	106,662.50	1,279,950.00	
4	PUMP OPERATOR	ITI Certificate with 3 year of Experience with knelodge in pump operators	Skilled	1 (per shift)	1.00	0.17	1.17	30,475.00	35,655.75	427,869.00	
6	Helpers/ khallasi	Experience in Electrical Maintenance	Unskilled	1(per Shift)	3.00	0.50	3.50	27,974.00	97,909.00	1,174,908.00	
					8.00	1.17	9.17				
TOTAL MANPOWER										3,277,491.00	

Note :-

* General Duty Hours shall be from 9:00am to 5:30 pm and may be vary as per the direction of Engineer In-charge

* Minimum wages as per CLC norms shall be follow on worker time to time by WAPCOS Limited .

* Manpower can be increased or decreased as per the requirement of ESIC/WAPCOS Limited. Payment shall be released to only actual present manpower approved by ESIC/WAPCOS in respective month.

* **Above mentioned rates Excludes GST& Includes labour cess, other services charges and Administrative service Charges per worker as per only CLC norms per month quoted by the firm in financial bid shall be commensurate with the

Electrical works (for DSR Items Reference DSR -2022 Specification)						
Sl. No.	DSR/ MR	Description of item	UNIT	QTY.	Rate	Amount
1	1.3	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular type switch, phenolic laminated sheet,suitable size M.S. box and earthing the point with 1.5 sq.mm.FRLS PVC insulated copper conductor single core cable etc. As required .				
	1.3.1	Group A	Point	80	1244.00	99520.00
2	1.15	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/recessed steel/PVC conduit including dismantling as required				
	1.15.1	Group – A	Point	50	574.00	28700.00
	1.15.3	Group – C	Point	80	894.00	71520.00
3	1.14	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Metre	400	233.00	93200.00
	1.14.2	2 X 2.5sq. mm + 1 X 2.5 sq. mm earth wire	Metre	400	275.00	110000.00
	1.14.3	2 X 4.0 sq. mm + 1 X 4.0 sq. mm earth wire	Metre	100	334.00	33400.00
	1.14.4	2 x 6 sq. mm + 1 x 6 sq. mm earth wire.	Metre	20	439.00	8780.00
	1.14.5	2 X 10 sq. Mm + 1 x 6 sq. mm earth wire	Metre	10	1005.00	10050.00
4	1.17	Supplying and drawing following sizes of FRLS PVC insulated copper conductor ,single core cable in the existing surface/recessed steel/PVC conduct as required				
	1.17.2	2x1.5sq mm	Metre	500	70.00	35000.00
	1.17.11	2x2.5sq mm	Metre	500	98.00	49000.00
5	1.18	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
	1.18.2	2 Pair	Metre	10	38.00	380.00
6	1.21	Supplying and fixing of following sizes of PVC conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.				
	1.21.1	20 mm	Metre	500	128.00	64000.00
7	1.22	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required.				
	1.22	100 mm X 100 mm X 60 mm deep	Each	100	209.00	20900.00
	1.22	150 mm X 75 mm X 60 mm deep	Each	100	216.00	21600.00
8	9.2	Supplying and making outdoor end termination with cast resin compound including aluminium lugs and other jointing materials for following size of PVC insulated and PVC sheathed /XLPE aluminium conductor cable of 1.1 kV grade as required.				
	9.2.17	3½ X 25 sq. mm	Each	15	1410.00	21150.00
	9.2.18	3½ X 35 sq. mm	Each	20	1503.00	30060.00
	9.2.20	3½ X 70 sq. mm	Each	10	1645.00	16450.00
9	9.4	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required.				
	9.4.17	3½ X 25 sq. mm	Each	1	2478.00	2478.00
	9.4.18	3½ X 35 sq. mm	Each	1	2478.00	2478.00
	9.4.20	3½ X 70 sq. mm	Each	1	3363.00	3363.00
	9.4.22	3½ X 120 sq. mm	Each	1	4538.00	4538.00
10	5.2	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc.with charcoal/ coke and salt as required.	Each	5	6855.00	34275.00
12	5.16	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	mtr	200	70.00	14000.00
13	1101	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	Metre	200	18.00	3600.00
14	1102	Supply of 2.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	Metre	200	28.00	5600.00
15	1103	Supply of 4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	Metre	75	42.00	3150.00
16	1104	Supply of 6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	Metre	50	63.00	3150.00
19	1225	25 mm dia. ISI marked, PVC conduit	Metre	30	29.00	870.00
20	1212	25 mm sockets	each	10	9.00	90.00
21	1219	25mm iron staples/ saddles/ screws	each	10	100.00	1000.00

22	1230	25 mm PVC bends	Each	10	11.00	110.00
23	1401	Ceiling rose, 3 pin, 5 A ISI marked each	Each	50	20.00	1000.00
24	1402	5/P 5/6A one way moduler switch isi marked	Each	200	34.00	6800.00
25	1404	5/P 15/16A one way moduler switch isi marked	Each	200	74.00	14800.00
26	1405	3 pin 5/6A one way moduler shoket isi marked	Each	150	63.00	9450.00
27	1406	6 pin 15/16A one way moduler shoket isi marked	Each	150	105.00	15750.00
28	1302	Moduler GI Box for 4 module	Each	10	48.00	480.00
29	1303	Moduler GI Box for 6 module	Each	10	74.00	740.00
30	1304	Moduler GI Box for 8 module	Each	5	90.00	450.00
						0.00
24	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
	1.24.4	3 pin 5/6 A socket outlet	Each	5	122.00	610.00
	1.24.5	6 pin 15/16 A socket outlet	Each	2	197.00	394.00
	1.24.6	Telephone socket outlet	Each	20	148.00	2960.00
	1.24.7	TV antenna socket outlet	Each	10	148.00	1480.00
	1.24.8	Bell push	Each	20	140.00	2800.00
25	1.25	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	200	369.00	73800.00
26	1.28	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.				0.00
	1.28.1	1 or 2 Module	Each	200	133.00	26600.00
	1.28.2	3 Module	Each	100	151.00	15100.00
	1.28.3	4 Module	Each	20	158.00	3160.00
	1.28.4	6 Module	Each	100	182.00	18200.00
	1.28.5	8 Module	Each	20	211.00	4220.00
27	1.33	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	Each	50	87.00	4350.00
28	1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Each	50	99.00	4950.00
29	1.43	Providing and fixing extra conduit down rod of 20 mm dia, 2 X 10 cm length wiring with 2 X 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	Each	50	55.00	2750.00
31	1.52	Painting of ceiling fan in installed position with one or more coats of spray painting with synthetic enamel paint of approved brand and manufacture to give an even shade, including cleaning of surface with detergent etc as required.	Each	20	154.00	3080.00
32	1.53	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed steel/ PVC conduit as required.				0.00
	1.53.1	4 pair UTP CAT 6- 1 run of Cable	Metre	30	57.00	1710.00
	1.53.2	4 pair UTP CAT 6- 2 run of Cable	Metre	30	96.00	2880.00
	1.53.3	4 pair UTP CAT 6- 2 run of Cable	Metre	30	134.00	4020.00
33	1.56	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. 3 pin 5/6 amps modular socket outlets and 2 nos 5/6 amps modular switches, connection etc. as required.	Each	20	676.00	13520.00
34	1.57	Supplying & fixing suitable size GI box with modular plate and cover in front on surface or in recess i/c providing and fixing 25 amp modular socket outlet and 25 Amps modular SP MCB, "C" curve including connection, painting etc. as required.	Each	20	727.00	14540.00
35	2.21	Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	Each	30	269.00	8070.00
36	2.22	Providing and fixing H.T. danger notice plate of 250 mm X 200 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	Each	10	292.00	2920.00
37	6.2	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.	Each	10	518.00	5180.00
38	6.4	Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required.	Each	10	113.00	1130.00
40	6.8	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (For vertical run)	Mtr	10	197.00	1970.00
41	7.1	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.				0.00
	7.1.2	Above 35 sq. mm and upto 95 sq. mm	Mtr	100	405.00	40500.00
	7.1.3	Above 95 sq. mm and upto 185 sq. mm	Mtr	5	422.00	2110.00
	7.1.4	Above 185 sq. mm and upto 400 sq. mm	Mtr	5	474.00	2370.00
42	7.7	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				0.00
	7.7.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	Metre	200	130.00	26000.00
	7.7.3	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	Metre	5	153.00	765.00
43	7.8	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required				0.00
	7.8.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	Metre	5	92.00	460.00
	7.8.3	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	Metre	5	115.00	575.00
45	1431	S.P. 5/6 amps, one way switch, piano type ISI marked	Each	80	10.00	800.00
46	1433	S.P. 15/16 amps, one way switch, piano type ISI marked	Each	80	45.80	3664.00
47	1434	3 pin 5/6 amps socket outlet, piano type ISI marked	Each	80	19.00	1520.00
48	1435	6 pin 15/16 & 5/6 amps socket outlet, piano type ISI marked	Each	100	60.00	6000.00
49	1452	PVC Batten/ Angle Holder	Each	100	22.00	2200.00
		SWITCH DISCONNECTOR SFU AND MCCB				0.00

53		Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				0.00
	2.2.1	100 A, 16 KA,TPMCCB	Each	40	3777.00	151080.00
	2.2.2	125 A, 16 KA,TPMCCB	Each	1	4821.00	4821.00
	2.2.3	200 A, 16 KA,TPMCCB	Each	4	5992.00	23968.00
	2.2.7	250 A, 35 KA,TPMCCB	Each	1	13881.00	13881.00
	2.2.9	400 A, 35 KA,TPMCCB	Each	1	21586.00	21586.00
	2.2.13	100 A,30KA,FPMCCB	Each	1	7723.00	7723.00
	2.2.15	200 A,36KA,FPMCCB	Each	0	15206.00	0.00
	2.2.18	400 A,50KA,FPMCCB	Each	0	42665.00	0.00

		MCBs, ISOLATORS, RCCBs AND MCB DBs				0.00
54	1706	6 amps. to 32 amps. ratings , SP MCB, "C" curve,10 KA breaking capacity	Each	100	135.00	13500.00
55	1707	6 amps. to 32 amps. ratings , SPN MCB, "C" curve,10 KA breaking capacity	Each	50	394.00	19700.00
56	1709	6 amps. to 32 amps. ratings , TP MCB, "C" curve,10 KA breaking capacity	Each	30	702.00	21060.00
57	1710	6 A to 32 A ratings, TPN MCB, "C" curve, 10 kA breaking capacity	Each	80	869.00	69520.00
58	1730	20 amps. SPN, industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure	Each	20	680.00	13600.00
	2.13.1	40A 4 pole isolator	Each	5	970.00	4850.00
	2.13.2	63A 4 pole isolator	Each	10	1034.00	10340.00
59	1721	40 A rating, 4 pole RCCB, 30mA	Each	20	1880.00	37600.00
	1722	63A rating 4 pole rccb	Each	10	2052.00	20520.00
60	1773	2 + 12 way, SPN, prewired MCB DB with extended loose wire box, single door	Each	1	4298.81	4298.81
61	1772	2 + 8 way, SPN, prewired MCB DB with extended loose wire box, single door	each	2	2902.76	5805.52
	1736	2 + 6 way, SPN, prewired MCB DB with extended loose wire box, single door	each	1	1007.00	1007.00
	1737	2 + 10 way, SPN, prewired MCB DB with extended loose wire box, single door	each	1	1189.00	1189.00
62	2120	Brass compression gland for (28 mm) 3/4 X 25 sq. Mm 1.1 KV grade cable	Each	28	75.00	2100.00
63	2122	Brass compression gland for (35 mm) 3/4 X 50 sq. Mm 1.1 KV grade cable	Each	28	111.00	3108.00
64	2124	Brass compression gland for (45 mm) 3/4 X 95 sq. Mm 1.1 KV grade cable	Each	28	166.50	4662.00
65	2130	Brass compression gland for (70 mm) 3/4 X 300 sq. Mm 1.1 KV grade cable	Each	8	386.25	3090.00
66	2201	Aluminium lugs for 6 sq. mm cable	Each	20	1.58	31.60
67	2202	Aluminium lugs for 10 sq. mm cable	Each	20	2.10	42.00
68	2203	Aluminium lugs for 16 sq. mm cable	Each	20	3.00	60.00
69	2205	Aluminium lugs for 25 sq. mm cable	Each	20	4.13	82.60
70	2207	Aluminium lugs for 70 sq. mm cable	Each	20	7.43	148.60
71	2209	Aluminium lugs for 300 sq. mm cable	Each	15	67.50	1012.50
72	2851	Al. Alloy/ cadmium plated iron screws, 20 mm	Each	200	0.90	180.00
73	2852	Iron screws, 35 mm X 6 mm	Each	52	1.80	93.60
74	2853	Iron screws, 40 mm X 6 mm	Each	52	1.80	93.60
75	2854	Iron screws, 45 mm X 6 mm	Each	70	1.80	126.00
76	2858	PVC clip for fixing cable	Each	112	0.45	50.40
77	2938	Cotton waste, cleaning cloth etc.	kg	10	49.00	490.00
78	2939	Cleaning materials like soap/ detergent	kg	10	54.00	540.00
79	2940	Tin solder etc.	LS	30	7.20	216.00
80	2942	Charcoal	kg	100	9.00	900.00
81	2942	Coke	kg	200	13.50	2700.00
82	2943	Salt	kg	200	10.80	2160.00
83	2944	Paint	ltr	100	180.00	18000.00
	16.13	Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc, as per specifications.	Sqmt	1	7046.0	7046.00
	16.16	Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete as required.	Sqmt	3	5910.0	17730.00
	8.6	Laying of one number additional XLPE power cable of 33 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc as required.				
	8.6.1	Upto 120 sq. mm	mtr	20	386	7720.00
	8.6.2	Above 120 sq. mm and upto 400 sq. mm	mtr	20	420	8400.00
(A)TOTAL DSR RATES						1675172.23
1	NDRS	Supply of XLPE insulated power cable (conforming IS-7098 Part-I) 1100 Volt grade,10 sqmm 4 core ISI marked with alu. stranded /solid conductor	mtrs	150	195.00	29250.00
2	NDRS	Supply and installation of 12v, 180 Ah lead acid battery (For UPS)	Each	2	19000	38000.00
7	NDRS	Supply and installation of 12v, 160 Ah quanta sealed battery (UPS)	Each	2	15000	30000.00
8	NDRS	Supply and installation of 12v, 75 Ah quanta sealed battery	Each	2	6700	13400.00
9	NDRS	Supply and installation of 12v, 12 Ah quanta sealed battery	Each	5	2400	12000.00
11	NDRS	DG set Radiator cleaning complete	Each	1	45000	45000.00
88	NDRS	Supplying, erecting and testing of approved make exhaust fan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame bolt/anchor hole fasteners etc. complete finished and as required.				
	NDRS	380mm sweep	Each	15	2,625.00	39375.00
		400mm sweep	Each	10	3,100.00	31000.00
	NDSR	Ventilating Fan Non-metallic 250 mm	Each	10	1,472.00	14720.00
	NDSR	Supply of Wall Fan 400 mm sweep	Each	15	1,831.00	27465.00
	NDSR	Supply of Wall Fan 450 mm sweep	Each	15	2,057.00	30855.00
	NDSR	Supply of Ceiling Fan (1200 MM) BEE 5 star	Each	75	2,340.00	175500.00
89	NDRS	Repairing and re-winding of A.C ceiling fan of all size complete with all required materials.	Each	50	560.00	28000.00
90	NDRS	Replacement ball/ baring /bush of A.C Ceiling fans.	Pair	75	160.00	12000.00
91	NDRS	Repairing and re-winding of A.C stand fan of all size complete with all required materials.	Each	20	630.00	12600.00
92	NDRS	Replacement of 2.5 M.F.D fan condenser.	Each	250	35.00	8750.00
93	NDRS	Replacement of 4 M.F.D Stand fan condenser.	Each	50	50.00	2500.00
94	NDRS	Supply of PVC insulated tape 12mm.	Roll	45	16.00	720.00
95	NDRS	Supply of copper flexible speaker wire twin FRLS 1100 Volts as per IS:694-1990 of approved make	Metre	125	18.00	2250.00
97	NDRS	Supply of 5 Amps. 3 pin top.	Each	200	45.00	9000.00
98	NDRS	Supply of 15 Amps. 3 pin top.	Each	100	75.00	7500.00
99	NDRS	Supply of 9 watt LED bulb of approved make.	Each	10	150.00	1500.00

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103	NDRS	Supplying and fixing flood light with high power LED of 3 to 6 Watt each assembled on single MCPCB and additional unique peanut lens on each LED, system lumens output with efficacy>120 lm/Watt. luminaire having color temp upto 6500K & 50000 hrs. burning life with minimum @ L 70, The colour rendering index of LED light should be more than 70. Luminaire comprises of driver, PF > 0.95 & surge protection 10KV. Housing made of pressure die cast aluminium with heat resistant flat glass, IP65 protection. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347/c connection wire, testing etc. to complete the job.				
	NDRS	60/50Watt, color temp 3000-6500k as required.	Each	5	4,500.00	22500.00
	NDRS	90/100Watt, color temp 3000-6500k as required.	Each	5	6,200.00	31000.00
104	NDRS	Supplying, fixing & testing of approved make flexible LED strip comprising of 60 LED per meter W/O driver for direct mounting complete with all accessories including connection lead, fixing, connection as required. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347/c connection wire, testing etc. to complete the job.				
	NDRS	Flexible LED strip 24Watt/25Watt - 5 M indoor cove light W/O Driver IP 20-33	Each	10	920.00	9200.00
106	NDRS	Push bottom N/O, N/C switch	each	10	292.00	2920.00
111	NDRS	L&T make analog timer for street light control	each	2	2,060.00	4120.00
118	NDRS	Digital multiMetre	each	2	3,240.00	6480.00
119	NDRS	Selector switch	each	10	360.00	3600.00
121	NDRS	4 way bake-lite connector strip	each	10	178.00	1780.00
122	NDRS	sign board smps 33A,400W	piece	5	1,690.00	8450.00
123	NDRS	street light junction box(sintex make)	each	20	860.00	17200.00
124	NDRS	Electric Water Geyser Capacity 9 L servicing i/c replacement of coil, thermostat and cable as required	Each	15	850.00	12750.00
125	NDRS	Supply of 100 Amps Porcelaine base kit kat fuse	Each	5	675.00	3375.00
126	NDRS	Supply of following size board cover for existing board (Hylam make 3 mm thick)				0.00
127	NDRS	150mm x 100mm	Each	20	72.00	1440.00
128	NDRS	180mm x 100mm	Each	20	78.00	1560.00
						0.00
131	NDRS	Supply and fixing surface mounting LED down lighter, LED Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ L 70, system lumen output should be minimum with efficacy>100 lm/Watt. LED driver PF > 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of pressure die cast aluminium/CRCA powder coated frame with glare free diffused polycarbonate cover. Submission LM 79-08/IS16106 (2012), IEC60598, IEC61347/c connection wire, testing etc. to complete the job..				
	NDRS	14/15 Watt, color temp 3000-6500k as required.	Nos	10	820.00	8200.00
132	NDRS	LED batten 5 watt, 2feet	Nos	10	225.00	2250.00
	NDRS	Philips 4 feet long 18 to 25 w Led/Tube light slimline superbright	Nos	100	570.00	57000.00
CSR 22-23,2-1-3		upplying and erecting LED square / circular Min 18 W down lighter/Panel Light having pressure die-cast aluminium housing, polystyrene diffuser having system lumens output of Min. 1200 Lumens, min. efficacy of 110 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs. at L70B50, including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with 3 years warranty	Nos	200	796.00	159200.00
CSR 22-23,2-1-16		Supplying and erecting anodized aluminium corridor / passage / mirror light LED fitting (2 feet) Max. 12W with high transitivity diffuser with min. system lumens output of 1200 lumens, min. efficacy of 100 lumen/W, CRI>80, CCT upto 6000K, Beam Angle of 110 deg., Ripple0.95, operating range of 200-270V, surge protection of 2 kV, Life class of 50,000 Hrs. at L70B50, including driver with end caps on provided PVC Block / wooden board with 3 years warranty	Nos	25	433.00	10825.00
CSR 22-23,2-4-4		Supplying and erecting integrated LED street light fitting 40 to 50W IP65 & IK08 class having single piece pressure die-cast aluminium housing, having system lumens output of Min. 4400 Lumens, min. efficacy of 110 lumen/W, CRI>70, CCT upto 6500K,THD0.95, operating range of 140-270V, inbuilt surge protection of 10 kV, Life class of 50,000 Hrs. at L70B50, including driver complete with 3 Years warranty as per specification No.FG-ODE/ELS2	Nos	20	4,117.00	82340.00
CSR 2-5-1		Supplying and erecting Gate/garden light fitting with 200mm dia. glass bowl suitable for upto 12W LED Lamp on provided pipe as per specification No. FGODF/GLT	Nos	20	529.00	10580.00
CSR 2-4-3		Supplying and erecting integrated LED street light fitting 26 to 30W IP65 & IK08 class having single piece pressure die-cast aluminium housing , having system lumens output of Min. 2600 Lumens, min. efficacy of 100 lumen/W, CRI>70, CCT upto 6500K, THD0.95, operating range of 140-270V, inbuilt surge protection of 10 kV, Life class of 50,000 Hrs. at L70B50, including driver complete with 3 Years warranty as per specification No.FG-ODE/ELS2	Each	5	2,570.00	12850.00
CSR 2-1-8		Supplying and erecting LED Panel Light(600mm X 600mm) Max. 35 W having CRCA powder coated housing, polystyrene diffuser having system lumens output of Min 4200 Lumens, min. efficacy of 120 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs. at L70B50 including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with 3 years warranty.	Each	500	2,924.00	1462000.00
MR		LED PLL Lamp 18W Tube 4 PIN Philips	Each	400	509.00	203600.00
MR		Intercom System Installation,Testing and commissing of Epabox System 2*24 configuration including labour charges.Approved make Crystal/CCL ISO Certified	Each	5	3,600.00	18000.00

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	MR	Telephone Instruments	Each	5	1,000.00	5000.00
	MR	25 mm 4 way junction box	Each	5	140.00	700.00
	MR	Telephone Cable	per/meter	1	7,000.00	7000.00
135	NDRS	1 Or 2 Module PVC box	Each	15	155	2325.00
136	NDRS	3 Module PVC box	Each	50	180	9000.00
137	NDRS	6 Module PVC box	Each	35	254	8890.00
138	NDRS	12Module PVC box	Each	30	402	12060.00
139	NDRS	16 Module PVC box	Each	10	442	4420.00
140	NDRS	Supply and fixing as per specification call bell/buzzer of approved make with necessary materials complete.				0.00
141	NDRS	Ding dong bell	Each	20	185	3700.00
142	NDRS	Remote/cordless bell	Each	5	969	4845.00
143	NDRS	Supply and fixing of PVC insulated copper flexible speaker wire twin FRLS 1100 Volts as per IS:694-1990 of approved make				0.00
144	NDRS	(32/0.2 mm) Twin core 1.00 sq.mm	mtrs	58	20	1160.00
145	NDRS	Supply and fixing of MH lamp single ended (complete set type ISI marked of approved make as required as per specification				0.00
146	NDRS	150 Watt	Each	1	3500.00	3500.00
147	NDRS	Supplying, erection and testing of approved make wall mounting fan oscillating type with base, blades, guard, speed regulator etc. AC 230-250 volts with connections and including raw bolt/anchor hole fastener etc. complete finished and as required.				0.00
148	NDRS	300 mm sweep	Each	10	3100.00	31000.00
151	NDRS	Supplying and testing of approved make Pedestal fan A.C. 230-250 volts with blades speed regulator 'pedestal etc duly wired with all necessary material complete as required. 400mm sweep	Each	1	4100.00	4100.00
153	NDRS	Painting of poles				0.00
155	NDRS	Prima coat over new steel and other metallic surface with red oxide zinc chromide paint complete with supply of material labour etc. including preparation of surface.	sqmt	10	76	760.00
156	NDRS	Prima coat with aluminium paint, brushing complete with material and labour including preparation of surface	sqmt	10	96	960.00
157	NDRS	supply of Weather proof 10 sq mm. 4 core pvc/ xlap ARMOURED cable with aluminium conductor 650/1100 v grade as required	mtrs	20	195	3900.00
	CSR-813	Supplying and erecting steel tubular swaged pole 139.7 x 114.3 x 88.9 mm dia with 4.5 x 3.65 x 3.25 mm thickness (5+2+2 m) length respectively and total 9 m long with pole cap, base plate in provided foundation (weight 113 kg) as per specification no. OH-PL/STP	Each	25	10295	257375.00
	CSR 8-1-9	Supplying and erecting steel tubular swan neck swaged type welded pole with upper portion hydraulically bent , 165.1 x 139.7 x 114.3 mm dia with 4.5 x 4.5 x 3.65 mm thickness (5.6+2.7+2.7 m) respectively total (net vertical height 10 m.) 11 m long with base plate in provided foundation. (weight 175 kg) as per specification no. OH-PL/STP	Each	15	16868	253020.00
245	NDSR	SITC of 3 phase 10 Hp centrifugal pump with motor including stater andall fitting as when required.	Nos	1	140000.00	140000.00
247	NDSR	SITC of 3 phase 03 Hp Submersible motor.with motor including all fitting as when required.(stater switch etc)	Nos	1	41900.00	41900.00
248	NDSR	SITC of 3 phase 5 Hp Sewerage/ drain motor.with motor including all fitting as when required.(Stater switches Pipes etc)	Nos	1	71000.00	71000.00
251	NDSR	Material & Labour for rewinding of 3Hp submersible motor with proper gauge of copperwire, insulating material, varnishing including fitting of Pump & motor and electrical connection, testing & commissioning complete all as directed by Engineer-in-Charge.	Job	1	6000.00	6000.00
252	NDSR	3-PHASE 07 Hp CENTRIFUGAL PUMP rewinding.with proper gauge of copperwire, insulating material, varnishing including fitting of Pump & motor and electrical connection, testing & commissioning complete all as directed by Engineer-in-Charge.	Job	1	12000.00	12000.00
253	NDSR	3-PHASE 10 Hp CENTRIFUGAL PUMP rewinding.with proper gauge of copperwire, insulating material, varnishing including fitting of Pump & motor and electrical connection, testing & commissioning complete all as directed by Engineer-in-Charge.	Job	1	16000.00	16000.00
254	NDSR	3-PHASE 20 Hp CENTRIFUGAL PUMP rewinding.with proper gauge of copperwire, insulating material, varnishing including fitting of Pump & motor and electrical connection, testing & commissioning complete all as directed by Engineer-in-Charge.	Job	1	29000.00	29000.00
	NDSR	Air blowers - 02 servicing and replacing the defective parts , refixing the same including testing & commisioning.	Job	1	42500.00	42500.00
256	NDSR	Star delta starter for suitable UPTO 20 HP pump set	Nos	1	26000.00	26000.00
257	NDSR	Star delta starter for suitable UPTO 7.5 HP pump set	Nos	1	16250.00	16250.00
258	NDSR	Star Delta starter repair	job	2	3500.00	7000.00
259	NDRS	on/ off switch	Each	2	480.00	960.00
260	NDRS	supply and fixing of feed pump	Each	1	8000.00	8000.00
261	NDRS	supply and fixing of engin controllor	Each	1	4000.00	4000.00
262	NDRS	battery charger 230v AC/ 24v DC, 10 amp	Each	1	8000.00	8000.00
263	NDRS	battery charger 230v AC/ 24v DC, 20 amp	Each	1	8000.00	8000.00
264	NDRS	supply of V belt	Each	1	7000.00	7000.00
265	NDSR	Supply of diesel for DG sets including the cost of loading and unloading/frieght charges (exluding GST) *Bill will be raised as per the actual market with proof of a bill + 10% frieght charges	ltr	500	89.00	44500.00
266	NDRS	supply and fixing water separator valve	Each	3	10000.00	30000.00
Total						3856430.00

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CCTV CAMERA						
S.NO	DSR / NDSR	Description of work	Unit	Qty	Rate	Amount
48	NDSR	CP PLUS 4 channnal HD DVR 1080p 1Pcs,indor camera 2.4 MP 1pcs 500GB Hard Disk Full Combo Set Security Camera(500 GB 4 Channal)	Each	70	8 600.00	6 02 000.00
49	NDSR	HIKVISION H.264/H.265 32-Channel POE NVR ,Two-way Audio System, Third-party network cameras supported, Up to 5 Megapixels resolution recording, 4-SATA for 4-HDDs Up to 8TB capacity for each disk 1-RJ45 GIGA Self Adaptive Ethernet network. (Make: Hikevision, Model-DS-7700NI-Q4)	Each	1	64 500.00	64 500.00
50	NDSR	Western Digital 8TB WD Purple Surveillance Internal Hard Drive - 7200 RPM Class, SATA 6 Gb/s, , 256 MB (Make: Hikevision, Model-WD82PURZ)	Each	1	28 500.00	28 500.00
51	NDSR	Multimode Media Converter with SFB Module (Make: D link, Multi-mode)	Each	1	7 400.00	7 400.00
54	NDSR	9U Rack with power manager	Each	1	7 450.00	7 450.00
56	NDSR	2U Rack with power manager	Each	1	3 000.00	3 000.00
58	NDSR	D- Link RJ 45 Pin Box	Each	1	800.00	800.00
59	NDSR	Tapes, Termination Box, Splicing	Each	8	1 900.00	15 200.00
64	NDSR	2C X 1.5sqmm Armoured Power cable	mtr	100	113.00	11 300.00
65	NDSR	25mm PVC Conduit	mtr	50	120.00	6 000.00
				Total		7 46 150.00
STP & ETP Works						
	NDSR	Pre comprehensive maintainance of STP ETP work including pumps (new pupms motor) and othe items as required	Job	1	575000	575000
				STP ETP Total MR		5 75 000.00
				Total DSR		1675172.23
		MATERIAL RATES(DSR), as per GST new circular dated 10.08.2022 adding multiplying factor 1.0633 with DSR items to update GST 12% to 18%				1781210.63
				Total NDSR / MR without GST		5177580.00
				Catrage charge @ 1%		51775.80
				Add CP & OH @ 15%		776637.00
				Total NDSR		6005992.80
				Add@18% GST		1081078.70
				Total NDSR/MR including GST		7087071.50
				Total DSR+NDSR/MR including GST		8868282.14
				Total DSR+NDSR/MR excluding GST		7515493.34

Annual Repair, Maintenance & Operation (ARMO) works of Civil, Electrical & MEP Services on Lumpsum Service Charges on Deposit Work Basis for Esic Hospital and Staff Quarters at Kandivali Mumbai (Package-3)- Bill of quantity											
Comprehensive AMC maintenance of Ro STP ETP with manpower and Materials											
S.No	Description	Qualification/requirment	Category	Duty hours/Shift	Manpower	Reliever	Total Manpower and Work	Rates per Month	Total Cost for One Month	Total Cost for one year	Remarks
DETAILS OF MANPOWER FOR STP-ETP WORK											
2	Operator	ITI /Trade Certificate with 3 year of	Skilled	General Shift 1 And 1 in second shift	2.00	0.33	2.33	30,295.00	70,587.35	847,048.20	
4	Helpers/ khallasi	Experience in Maintenance	Unskilled	General Shift 1	1.00	0.17	1.17	27,807.00	32,534.19	390,410.28	
	Engineer/Expert	Deploma/Be/Btech with 5 years of Experience inrelated work		Twice in a month			1.00	15,000.00	15,000.00	180,000.00	
	Consumables for STP	Monthly	Service	Consumables/month			1.00	25,000.00	25,000.00	300,000.00	
	Consumables for STP	Monthly	Service	Consumables/month			1.00	25,000.00	25,000.00	300,000.00	
	TOTAL MANPOWER						6.50		168,121.54	2,017,458.48	
					Total (Amount)				2,017,458.48		
Note :-											
* General Duty Hours shall be from 9:00am to 5:30 pm and may be vary as per the direction of Engineer In-charge											
* Manpower can be increased or decreased as per the requirement of ESIC/WAPCOS Limited. Payment shall be released to only actual present manpower											
The amount for consumables shall be verified by the engineer based on actual bills and requirements.											

Annual Repair, Maintenance & Operation (ARMO) works of Civil, Electrical & MEP Services on Lumpsum Service Charges on Deposit Work Basis for Esic Hospital and Staff Quarters at Kandivali Mumbai (Package-3)- Bill of quantity						
Substation works						
DG Sets						
Sl. No.	DSR/ MR	Description of item	UNIT	QTY.	Rate (In Rs.)	Amount (In Rs.)
1	NDRS	AMC of(2 no x 1500 KVA and 2x 1050 Kva) DG set Including B check (Oil Filter, Fuel Filter, Air Cleaner Filter, Coolant Extra Cool ,K- Cleaner, Canopy Hinges, Canopy Lock, Battery Lead, Engine Oil , Diesel Pipes pinon Lub Oil Filter, Valves, Petronas Urania 1000 CH, Coolant Lub Oil, O-ring etc) monthly cleaning and checking of DG Set.(By OEM) as per direction of engineer incharge	JOB	3	855000	2565000.00
2	NDRS	CAMC for CSSD Machine				
		Annual comprehensive maintainanca for 03 nos CSSD machine with complete material, attend unlimited breakdown ,routeen checkup ppm for every month etc. Model No- 24sr/E/DD/HP/HV/M-150 Sr No-1405 ,1406 and 1407	Job/Year	1	1376000	1376000.00
(TRANSFORMER/ RUM/HT < PANEL CAMC)						
3	NDSR	Comrehensive maintainance of HT VCB 630 Amp panel with transformer servicing including cleaning dust and carbon with CRC , removing old grease & applying grease. Relay testing and calibration. Checking for freeness of rack-in & rack -out mechanism, cleaning of current caring components, check electrical/ manual ON-OFF operation (8 nos.) CAMC, monitoring, technical support, supervision and attending breakdown immediately, identifying the fault and rectification of 11k/433 V sub station(LT parts) complete with all equipment's and accessories like DG synchronizing panel, load adjustment panel, capacitor panel, LT panels breaker units and all related electrical power distribution system including of Earthing strip and swg wire, lighting panel, ACB 66nos, MCCB 16 no's, Cable jointing heat shrinkable complete with mt ,feeder breaker, PHE panels, HVAC LT switch panel and various Major, street light panel, Equipment Equipment panel. total LT 180 nos. its includes PPM servicing once in quarter of all the equipment under the CAMC. any spear parts required to rectify the defect will be supplied by the agency without any extra cost. details of job specification and quantity are enclosed separately as Annexure-A. Interested agency to verify job on site before quoting. servicing and calibration of all the digital/ analog meters once in a year and replacement of defective one, without any extra cost. A service report of the same to be provided with the bill. Preventive maintenance of sub station bus duct once in a six month. A service report of the same to be provided with the bill. Earth pit testing (total 138 nos.) to be carried out Twice in a year. A service report of the same to be provided with the bill. (Also provide safety equipment's including Rubber mats and sustained cover for open cable duct entire panel room) Agency will be enguage one	Job/Year	1	4300500	4300500.00
4	NDSR	Annual, Maintenance 3*1500 KVA Transformers with Oil filtration AMC of Electrical Panels including Gas insulated switchgear, Ring main unit , HT Panel-4, HT Board of 11 kV, 630 Amp Crompton Greaves, Main LT Panel , All other panel, all other panels and Service including preventive maintenance and service in presence of Engineer/incharge as required	Job	2	425000	850000.00
Total						9091500.00
Total NDSR / MR without GST						9,091,500.00
Add@18% GST						1,636,470.00
Total NDSR/MR including GST						10,727,970.00
Taxable Amt						9,091,500.00