

NOTICE INVITING E-TENDER

for

**COMPREHENSIVE ANNUAL REPAIR MAINTENANCE & OPERATION (CARMO)
WORKS ALONG WITH RENOVATION/INTERIOR WORKS AT AIIA GOA (PACKAGE-II)**

NIT No.: WAP/ENVT/AIIA-ARM/GOA/2024/Pkg-2 ; dt.21.08.2024



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/ENVV/AIIA-ARM/GOA/2024/Pkg-2; dt.21.08.2024

NOTICE INVITING TENDER (NIT)**For****Comprehensive Annual Repair Maintenance & Operation (CARMO) works along with Renovation/Interior works at AIIA Goa (Package-II)****(Package II)**

All India Institute of Ayurveda (AIIA), has awarded WAPCOS Limited, for providing the Services. to WAPCOS Limited (A Govt. of India Undertaking), for and behalf of Joint Director (Admn) All India Institute of Ayurveda (AIIA), Gautampuri, Sarita Vihar, Mathura Road, New Delhi-110076, 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/AIIA on same terms and conditions. Tender is based on percentage basis.

1.	Name of Work:	:	<i>Comprehensive Annual Repair Maintenance & Operation (CARMO) works along with Renovation/Interior works at AIIA Goa (Package-II)</i>
2.	Location:		All India Institute of Ayurveda, Dargalim, Goa-403519
3.	Website for viewing tender/ Corrigendum/ Addendum	:	https://etenders.gov.in/e procure/app
4.	Website for Procurement/ downloading and uploading Tender document/ Corrigendum/ Addendum		https://etenders.gov.in/e procure/app
5.	Estimated Cost of Work	:	Rs.2,87,26,890/- (excluding GST) (Rupees Two Crores Eighty Seven Lakhs Twenty Six Thousand Eight Hundred and Ninety 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.5,74,538/- (Rupees Five Lakhs Seventy Four Thousand Five Hundred and Thirty Eight Only) 2% of the estimated cost (Refundable) in the form of RTGS/NEFT/D.D./Banker's cheque/FDR/Insurance 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>
8.	Time Period	:	1 year or as per the requirement of AIIA/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	:	04.09.2024 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.
12.	Last date & time for submission of Technical & Financial Bid.	:	04.09.2024 up to 13:00 hours
13.	Offline Submission of Tender Fees, EMD etc. as detail in Tender	:	04.09.2024 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
14.	Opening of Technical Bid	:	05.09.2024 at 15:30 hours
15.	Opening of Financial Bid	:	Will be intimated to Eligible Bidders
16.	WAPCOS Contact information	:	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
17.	Deadline for Clarification by the Applicants	:	Queries to be sent through E-mail on esic@wapcos.co.in till 03.09.2024 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

<https://etenders.gov.in/eprocure/app>

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

CED (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 CED (Envt & CM) 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. The Earnest Money deposit submitted by the successful tenderer shall be retained by WAPCOS Limited 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 (ENVT & CM)
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)			

S.No.	Particular of Document	Yes	No	Page Nos.
	<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 			
f)	<p>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 Nationalized/Scheduled Commercial 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)</p>			
g)	<p>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)</p>			
	<p>One similar assignment costing not less than 80% of the estimated cost of work put to tender</p> <p style="text-align: center;">Or</p> <p>Two similar assignments of order value each not less than 50% of the estimated cost of work put to tender.</p> <p style="text-align: center;">Or</p> <p>Three similar assignments of order value each not less than 40% of the estimated cost of work put to tender</p>			

S.No.	Particular of Document	Yes	No	Page Nos.
<p>*Similar work refers to “ARM Works Civil and Electrical in government hospitals/ dispensaries.” (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 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) .			

S.No.	Particular of Document	Yes	No	Page Nos.
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 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			

S.No.	Particular of Document	Yes	No	Page Nos.
	shall be carried out as per the requirement of AIIA/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)			
u)	Undertaking regarding police Clearance of Employees posted at AIIA 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			
	<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 04.09.2024 at the following address:

Dr. Aman Sharma
CED (Envt & CM)
76-C, Institutional Area,
Sector-18, Gurgaon,
Haryana-122015
Tel: 0124-2397396
Email id: esic@wapcos.co.in

Signed Tender Documents along with addendum/corrigendum and Originals EMD, Solvency Certificate and 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 (Envt & CM)

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 (90) 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./AIIA 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/AIIA 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/AIIA.

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 AIIA 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 AIIA 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/AIIA 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/AIIA.

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/AIIA.
- c) Non-adherence to undertakings which AIIA 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/AIIA 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/AIIA'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.

i.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

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/AIIA/Satisfactory person. Payment terms will be same as per Work Order received by WAPCOS from AIIA. 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/AIIA, 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 AIIA 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/AIIA/Satisfactory 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/AIIA 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/AIIA, then the penalty shall not be imposed.

4.16 Conveyance

The Contractor shall provide vehicle for site visit of WAPCOS/AIIA 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./AIIA 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./AIIA 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./AIIA. If WAPCOS LTD./AIIA 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 AIIA 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/AIIA. 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/AIIA 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/AIIA 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/AIIA 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/AIIA 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/AIIA 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/AIIA, the agency may represent WAPCOS/AIIA.

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 AIIA 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-4.30: 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
 - a) 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.
 - b) 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 AIIA/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/AIIA.
- 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/AIIA**

WAPCOS/AIIA 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/AIIA 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 AIIA)	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 AIIA.**

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 AIIA. The authenticated copies of Police verification certificate/documents of the persons, who are to be deployed in AIIA, shall be submitted by the firm to WAPCOS. WAPCOS/AIIA 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/AIIA 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 AIIA are medically fit and will keep record of their medical fitness. The firm shall withdraw such persons, who are not found suitable by AIIA/WAPCOS for any reasons, immediately on receipt of such request from WAPCOS/AIIA. The copies of medical fitness certificate of the persons who are to be deployed in AIIA, shall be submitted by the successful bidder to WAPCOS/AIIA.
- 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 AIIA are required to be submitted to WAPCOS/AIIA 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/AIIA and so that optimal services are available without disruption.
- The worker engaged will observe discipline and decorum and shall not-misbehave with any WAPCOS/AIIA 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 AIIA and any other matters that may arise in this regard and WAPCOS/AIIA, 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 AIIA. 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 undeliake 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/AIIA 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/AIIA 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/AIIA. 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/AIIA 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 AIIA 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 AIIA/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 -2023. 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.

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.
- **Clause :Payment-**WAPCOS Limited shall pay the amount certified in a Certificate of Payment less the amount paid earlier in accordance with Clause 48 (3) [Certificate of Payment], no later than [21 (twenty one)] Business Days from the date of such Certificate of Payment.

Payment Terms: The Associate/Sub – Consultant/Sub-Contractor acknowledges that under the present Contract/Agreement/Work Order/Arrangement, WAPCOS is only working as intermediary between Client being Principal Employer/Client and Associate/Sub-consultant/Sub-Contractor. Thus the Associate/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 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 Client (Principal Employer/Client), then WAPCOS &/or any of its Employee/Officer 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

- **Clause-:BLACKLISTING POLICY**

The Blacklisting Policy of the company is available on official website of WAPCOS Limited. The Bidder/tenderer/consultant/contractors have to mandatorily furnish an undertaking addressing the same to Engineer-in-Charge in the form of certificate to abide the contents of Blacklisting Policy as per FORM-C. 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

- **Clause- Office Set up at Site for WAPCOS/Client officials**

Vehicle for site visit, permanent one vehicle for WAPCOS officials for site monitoring like bolero/Scorpio should be provided during the entire tenure of construction and office set up at site for WAPCOS officials shall be provided by the contractor at his own cost. 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

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) (3 % 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

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 $\frac{1}{4}$ to $1\frac{1}{4}$ 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 $\frac{1}{4}$ " 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 back ground 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 recoument 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

**ELEGIBILITY CRITERIA AND IT, S FROMS:
FORM 'A'
LETTER OF TRANSMITTAL**

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

Subject: Submission of bids for the work of “**Comprehensive Annual Repair Maintenance & Operation (CARMO) works along with Renovation/Interior works at AIIA Goa (Package-II)**”.

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:

Signature(s) of Bidder(s)

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
(UDIN Number and Seal)

Signature of Bidder(s).
(with Seal)

FORM C
SOLVENCY CERTIFICATE FROM A SCHEDULED COMERCIAL/NATIONLAIZED
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 “Comprehensive Annual Repair Maintenance & Operation (CARMO) works along with Renovation/Interior works at AIIA Goa (Package-II)”.

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

WAP/ENVT/AIIA-ARM/GOA/2024/Pkg-2
**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 (Envnt & CM)

WAPCOS Limited

76-C , Industrial Area

Gurgaon, Haryana

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 (Envt & 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 & 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

WAP/ENVT/AIIA-ARM/GOA/2024/Pkg-2
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 intensions.

(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

- Wages due to every worker shall be paid to him direct by contractor through Bank or ECS or online transfer to his bank account.
- 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)

SCOPE OF WORK

The scope of work includes “Comprehensive Annual Repair Maintenance & Operation (CARMO) works along with Renovation/Interior works at AIIA Goa (Package-II) “. AIIA/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	All India Institute of Ayurveda, Dargalim, Goa-403519	North Goa

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

Brief Description & Scope of Work

(for illustration only)

Operation and Maintenance of E & M Equipment including Electrical Sub stations VRV's, firefighting system, DG Sets, STP/ETP/WTP and their sewage conveying system, goods/ passenger lifts, Solar Plants, RO Plants, comprehensive maintenance of HVAC, Operation and Maintenance of AV works, Access Control, PA systems, security systems, Maintenance of Civil & Electrical works, Maintenance of Horticulture/ landscaping works, Procurement of IT Instruments Procurement of Medical & Research equipment's

For Interior & Renovation Works: (Categorized in (a) & (b))

(a) Interior works of office space including Civil, Electrical, Audio-Visual Works, Sanitary Plumbing Works, HVAC Works, WIFI, LAN, EPBAX, CCTV, IT Works, Furniture Works, PA, smoke Detectors, Green Wall/ Horticulture Works, Lighting Works/ Acoustic Works, Art Works/ Sculptures and all other works required to ready to move office/ conference rooms, etc.

(b) Restoration, Renovation and Furnishing works of building space including both interior and exterior space.

1. Hospital Building:-

a. Admin Block:

a) Storages development in (ie.), supporting stalls (MTS Staffs)

b) Granite mounted handwash area development, lavish washroom finishes.

c) Storage room (for housekeeping or documents as per the instructions of Client) beneath stairs.

d) Creation of pantry room and separate area for PS room,

- e) Development of main entrance porch, reception area with artifacts, sculptures
- f) Audio Visual works in the lobby area with digital signages and art work.

b) OPO's & Hospital Block (G-3)

Ground Floor

i) Main entry lobby at OPD:

- a) Design of some sculptures
- b) Theme Walls
- c) Lighting Works
- d) Murals
- e) Information Desk
- f) Waiting Lounge theme with existing sitting area
- g) Beautification of "Campus Model"
- h) Vertical Garden

- ii) Development of garden area in front of Wellness & Mother and Child OPD's with themes matching for sequencing of kriya yogas and kids entertainment.
- iii) Development of OPD's with theme matching corresponding department, curtains and Storages.
- iv) Development room like model demonstrating the procedures as prescribed by doctors, etc.
- v)
- vi) Pharmacy Section (dump room for cartons) + Storage room (organized room with proper storage for medicines)

First Floor

- i.) 5 nos. Panchakarma Rooms renovation including chimney creation.
- ii.) Yoga Hall renovation with creation of office for instructor, carpets, modular desk, mirror for patients to analyze their postures, podiums, low height furniture, display boards etc.
- iii.) Meditation Hall with accommodation of equipment like display boards, carpets, low height furniture, etc.
- iv.) Waiting lounge panchakarma section.

2. Academic Building:

Ground Floor

- i. Waiting area.
- ii. Academic Block inner signages signifying lecture rooms, seminar halls, Accounts office, JD's, D's rooms, etc.
- iii. Development of garden area for yagya events, hidden AV's for mantras, beautification, etc.
- iv. 2 interactive panels in 5 lecture rooms at either corners.
- v. Installation of blinds, grills, acoustic panels on side walls.

First Floor & Second Floor

- i. Temporary covered parking sheds at current location of auditorium (yet to be constructed)
- ii. Designing & execution of laboratories with individual sitting spaces.
- iii. Tutorials rooms.
- iv. Storage in all assistant professor rooms.

- v. Museum development for soft organs, bones.
- vi. Laboratory head space creation.
- vii. Dissection room recreation.
- viii. Plumbing access exhaust for smell, installation of separate VRV's, display boards, etc. in cadaver room and in dissection area.
- ix. Magnifying camera & projectors display for live dissection area.
- x. 15 laboratories furniture.
- xi. Faculty section development in library, magazines section, acoustics, etc.
- xii. Seminar rooms (with furnitures, podiums, paneis, displays, etc.).
- xiii. Mess area development for faculties & students.
- xiv. Glass partition in mess
- xv. Accounts office area interiors beautifications i.e. Kautilya section theme development.
- xvi. AV for conferencing rooms.
- xvii. Development of D's, JD's, PS to D's, JS's , waiting rooms, garden areas beside JD & D's rooms.

3. Annapurna Dietary Rooms:

- i. Annapurna Dietary Status in dietary section.
- ii. Signages in all building spaces.
- iii. Healthy staff ahar & disease prone staff ahar section development.
- iv. Dining area for VVIP's in dietary rooms.

4. Outer Area:

- i. Horticulture area development.
- ii. Selfie point development.
- iii. Development of recreational Centre cum library in residential area.
- iv. Small gathering development in conventional Centre

Notes:

- i.) The above list is not exhaustive but may include various other equipment/ services/ area/ scope of work which may be added/ deleted as per necessity/ decision of AIIA from time to time.
- ii.) Out of the above-mentioned lists, for those plants/ equipment for which AMC is already in place shall be handed over to the agency after completion of the existing AMC or as decided by WAPCOS/AIIA.
- iii.) The work for above sites to be taken up shall be intimated separately

1. The AIIA/WAPCOS will assign the following types of repairs & maintenance works execution basis for carrying out comprehensive Repairs & Maintenance of its existing infrastructure comprising of Hospital, Dispensaries, office buildings & Staff Quarters and Services including Equipment and Plants rendering specialized services:

Special & Particular Conditions:

- Manpower attendance register with necessary cross checks to be maintained properly.
- Uniform, ID Card, tools & plants, safety gears i.e. gloves, boots, helmets, rain coats, etc to the deployed manpower have to be provided by the contractor agency.
- The Working Staff should be professionally qualified and must be trained.
- The contractor agency shall ensure that necessary complaint registers are maintained for lodging of complaints by the end users. The complaint registers shall be periodically

monitored by responsible Engineer(s) of AIIA/WAPCOS, so as to ensure that the complaints are attended in time by the contract agencies. After attending of each complaint, necessary signature of the complainant/end user shall be obtained as a token of acceptance. AIIA/WAPCOS reserves the right to inspect the Complaint registers as and when necessary, so as to ensure smooth execution of works.

- The site for the work is readily available as the ARMO work is to be carried out in the running hospital/dispensary buildings and their premises having residential buildings and other ancillary structures and the desirous agencies can inspect the Hospital and attached Dispensaries, Staff quarters & Offices Area on any working day.
- Conditional bids if any shall summarily be rejected.

Broad description (Scope of Work):

- 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 unloading 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/Branch Officer/Engineer (AIIA) 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, moble 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/Branch Officer/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/AIIA in troubleshooting.
- Operation & Maintenance of LT power distribution network etc inside the AIIA premises.
- Operation & Maintenance of street lightning system/ other light system inside the AIIA 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/AIIA 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 AIIA as well as various units inside AIIA 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 AIIA/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 AIIA/WAPCOS directions.

- Manpower deployment schedule has to be finalized by the contractor as per the WAPCOS/AIIA Guidelines and in consultation with WAPCOS/ AIIA Officers /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 AIIA
- 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 AIIA/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 AIIA 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 AIIA/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 AIIA/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/AIIA. Any increase in the scope of work shall be in terms of CVC guidelines and with prior written approval of competent authority of AIIA 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.

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/AIIA, 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.

CIVIL WORKS

S.NO.	NAME OF ITEM	MAKE APPROVED
1	ORDINARY PORTLAND CEMENT GRADE 43/53, PORTLAND POZZOLONA CEMENT	JK, ACC, ULTRATECH, JAYPEE, SHREE, AMBUJA,
2	WHITE CEMENT	JK, BIRLA, ACC, JAYPEE, AMBUJA
3	REINFORCEMENT STEEL	TATA , SAIL, RINL, JINDAL, JSW STEEL
4	PLY / BOARD / MDF	DURO, MERINO, GREEN PLY, AGNI , KITPLY, CENTURY
5	LOCK/BRASS FITTING	DORSET, DORMA, OZONE, GODREJ, HAFELE
6	WALL PUTTY	JK, BIRLA, ACRO, BERGER
7	STRUCTURAL STEEL/TUBULAR TRUSS	TATA , SAIL, RINL, JINDAL, APOLLO
8	PAINT/POLISH/ PRIMER/ WATER PROOFING PAINT	BERGER, ASIAN, DULUX, NEROLAC
9	POWDER COATING	AKZONOBEL, ASIAN
10	EPOXY PAINT/ WATER PROOFING WORKS	FIBREX/BASF/ SIKA/FOSROC/PIDILITE
11	FLOOR & WALL TILE(VITRIFIED & CERAMIC)	KAJARIA, ORIENTBELL ,SOMANY, NITCO
12	GLASS / MIRROR	ASAHI, SAINT GOBAIN, PILKINGTON, MODI GUARD
13	CONSTRUCTION/WATERPROOFING CHEMICAL, ADMIXTURES	ROFFE, FOSROC, SIKA, ULTRACON, PIDILITE
14	ANTI TERMITE	VAM ORGANICS, PYRAMID, TERMISOL
15	GRID FALSE CEILING & WALL PARTITION	ARMSTRONG, DEXUNE, NEW AGE, HUNTER DOUGLAS, SAINT GOBAIN
16	GYPSON WALL PARTITION/CEILING	BORAL, INDIA GYPSUM, GYPROC, SAINT GOBAIN
17	FLUSH DOOR	DURO, CENTURY, MERINO, ARCHIDPLY, AGNI
18	DOOR FITTINGS & FIXTURES	DORMA, OZONE, DORSET, EBCO, HAFELE
19	GLASS/SS HANDRAIL	DORMA, OZONE, DORSET
20	ALUMINIUM SECTIONS	JINDAL, BHAROUKA, HINDALCO
21	XPS INSULATION	OWENS CORNING
22	GLASS PROCESSING	GOLDPLUS, GSC

23	MODULAR FURNITURE	GODREJ, BP ERGO, FEATHERLITE, WIPRO
24	VENEER/LAMINATE	MERINO, CENTURY, AGNI, DURO, GREEN, ARCHIDPLY
25	SIGNAGES	3M, XENON OR EQUIVALENT
26	UPVC DOORS AND WINDOW	FENESTA, LINGAL, DECEUNINCK, ENCRAFT, DUROPLAST
27	PAVER BLOCK/KERB STONE OF M30 GRADE AND 60 MM THICK	NITCO, UNITILE, NIMCO OR EQUIVALENT
28	FIRE RETARDANT PAINT	NULLIFIER/SIGNUM/GODREJ/NIPPON/CARBOLINE
29	FIRE DOOR	SUKRI, NAVAIR, DORMA
30	FIRE RATED GLASS	SCHOTT (GERMANY) AND EQUIVALENT
31	PIPES RELATED WORKS	REFRE MAKE LIST FOR PHE WORKS
32	STAINLESS STEEL (GRADE 304) RAILING MADE OF HOLLOW TUBES, CHANNELS, PLATES ETC	JINDAL, TATA, MONNET
33	ACP	VIVA, ALSTRONG, ALUDECOR, ALUCOBOND, VIRGO
34	REINFORCEMENT COUPLER	SNTP, DEXTRA, MOMENT, LENTON
35	EXPANSION JOINT	KOHINOOR ENTERPRISES, MIGUA, CS
36	WATER PROOFING AGENCY	SIKA, FOSROC, BASF, PIDILITE, CHRYSO (SAINT GOBIN)

ELECTRICAL WORKS

ITEM	MANUFACTURERS NAME
AIR CIRCUIT BREAKER	SCHNEIDER /SIEMENS/ L&T/ABB
MOULDED CASE CIRCUIT BREAKER WITH ROTARY OPERATING HANDLE.	SCHNEIDER/ SIEMENS/ L&T/ ABB/ POLYCARB
TRANSFORMER / COMPACT SUBSTATION	ABB/ SCHNEIDER/ KRILOSKAR/ CROMPTON
DIGITAL METERS	EL MEASURE / L&T/ CONSERVE/ TRINITY / NEPTUNE DUCATI
CONTACTORS, TIMERS	SCHNEIDER/ ABB/ L & T/ LEGRAND/ SIEMENS
CAPACITORS / CAPACITOR WITH RELAY	SCHNEIDER/ EPCOS/ L & T
VOLTMETER & AMMETER	CONZERVE/ ENERSOL/ HPL
SWITCH GEAR	SCHNEIDER/ SIEMENS/ L&T/ ABB/ CROMPTON
SELECTOR SWITCH	KAYCEE/ L & T
CURRENT TRANSFORMER	MATRIX/AE/ C&S / G&M

INDICATING LAMP	L & T/ SIEMENS/ AE
PROTECTIVE RELAYS	ABB/ L & T /SIEMENS/SCHNEIDER / GE
MULTI FUNCTIONAL METER	L&T/ LEGREND/ CONZERV
APFC RELAY (MICROPROCESSOR BASED)	SYNTRON/ ENERCON/ L & T/ DUCATI/ SCHNEIDER
BATTERIES	EXIDE/AMAR RAJA/OKAYA/LUMINOUS
BATTERY CHARGER	UPTRON/VOLTSTAT ELECTRONICS
L.T. / H.T. CABLE	POLYCAB/ HAVELLS/ FINOLEX/ KEI
DC MINIATURE CIRCUIT BREAKER	SCHNEIDER/SIEMENS/POLYCAB/ LEGRAND
CABLE LUG (TINNED COPPER)	DOWELLS/ MULTI/CAPITAL
CABLE GLAND	PEECO/ COMMET/ GRIPWELL/ POWER
MAIN L.T. PANEL, CAPACITOR PANEL & DISTRIBUTION PANEL	SPC ELECTROTECH/ TRICOLITE/ ADLEC/ APPLICATION CONTROL/ PRECISION
CABLE TRAY / RACEWAY	PILCO/CTM ENGINEERS/KME/SLOTCO/STEELWAYS
FIRE EXTINGUISHERS	ZENITH/MINIMAX/NEWAGE/ CEASE FIRE
ENERGY ANALYZER METER	CONZERVE/ELEMEASURE/ENERSOL
VOLTMETER & AMMETER	CONZERVE/ ELMEASURE/ ENERSOL
DISTRIBUTION BOARDS WITH MINIATURE CIRCUIT BREAKERS, RCCB	HAGER/LEGRAND/ POLYCAB/L & T/ HAVELLS
PVC INSULATED COPPER CONDUCTOR SINGLE CORE STRANDED WIRES OF 650/1100 VOLT GRADE	HAVELLS/FINOLEX /POLYCAB
TELEPHONE TAG BLOCK	KRONE/ TVS R&M
PVC CONDUIT	BEC/AKG/POLYCAB/ RMCON/ ASTRAL
M.S. CONDUIT	BEC/AKG / RMCON/ JINDAL
MODULAR SWITCHES & SOCKETS	LEGRAND/HAVELLS/POLYCAB/ ANCHOR
LV SYSTEM WIRE	SIEMENS/LEGRAND/ AMP/ HAVELLS/POLYCAB
TV/TELEPHONE OUTLET	SIEMENS/LEGRAND/ HAVELLS/POLYCAB
DATA OUTLET	SIEMENS/LEGRAND/ HAVELLS/POLYCAB
DATA RACK	SIEMENS/APW/LEGRAND/ WIPRO
LIGHT FIXTURE	PHILIPS/HAVELLS/POLYCAB/ WIPRO
LAMPS	PHILIPS/ HAVELLS/ POLYCAB/ WIPRO
CEILING FAN	ORIENT/HAVELLS/CROMPTON GREAVES/BAJAJ
EXHAUST FAN WITH LOUVERS	ORIENT/HAVELLS/CROMPTON GREAVES/BAJAJ
GEYSER	HAVELLS/ BAJAJ/V-GUARD/ A-O SMITH/ JAGUAR/ CROMPTON GREAVES
FIRE ALARM SYSTEM	NOTIFIER HONEYWELL/ SIEMENS/ TYCO/ EDWARDS/ AGNI
PRESENCE DETECTOR	HAGGER/LEGRAND/PHILIPS
RCC HUME PIPE FOR ELECTRICAL WORKS	ISI MARKED OF REPUTED COMPANY
PLC	SIEMENS/ALLEN BRADLEY

TELEPHONE / CO AXIAL WIRE	POLYCAB/FINOLEX/HAVELLS
PROFESSIONAL LED PANEL	PANASONIC/ SAMSUNG/SONY
PUBLIC ADDRESS SYSTEM	HONEYWELL/ BOSCH/TYCO/EDWARDS
D.G. SET (ENGINE)	CUMMINS/CATTERPILLAR/STAMFORD/KI RLOSKAR
D.G. SET (ALTERNATOR)	STAMFORD/ LERROYSOMMER/ CATTERPILLAR
D.G. ACCOUSTIC ENCLOSURE	JAKSON/STERLING/CATTERPILLER/SUDHI R
H.T. PANEL	ABB/ SCHNEIDER/SIEMENS
H.T. TERMINATION KIT	RAYCHEM/DENSON
SMOKE DETECTORS	NOTIFIER HONEYWELL/ TYCO/ SIEMENS CERBERUS-PRO/SHRACK
HEAT DETECTORS	NOTIFIER HONEYWELL/ TYCO/ SIEMENS CERBERUS-PRO/SHRACK
MANUAL CALL BOX	NOTIFIER HONEYWELL/ TYCO/ SIEMENS CERBERUS-PRO/SHRACK
HOOTER/ SOUNDER	NOTIFIER HONEYWELL/ TYCO/ SIEMENS CERBERUS-PRO/SHRACK
RESPONSE INDICATOR	NOTIFIER HONEYWELL/ TYCO/ SIEMENS CERBERUS-PRO/SHRACK
FIRE PANEL	NOTIFIER HONEYWELL/ TYCO/ SIEMENS CERBERUS-PRO/SHRACK
PA AMPLIFIER	HONEYWELL/ BOSCH/HEINRICH/ATIES
PA SPEAKERS	HONEYWELL/ BOSCH/HEINRICH/ATIES
LINE MATCHING TRANSFORMER	HONEYWELL/ BOSCH/HEINRICH/ATIES
GOOSE NECK MIKE	HONEYWELL/ BOSCH/HEINRICH/ATIES
INVERTER	TOPAZ INTERNATIONAL/ LUMINOUS/ HYTES/ SU- KAM/ MICROTECH
CAMERA WITH ALL ACCESSORIES	AXIS / INPULSE/ IDIS/ BOSCH/PELCO
ROAD BARRIER	NICE/ MAGNETICS/ GODREJ/ GE
CARD READER	SENSORMATIC-USA/ MOTOROLA /HONEYWELL(XLS- 3000)
MONITOR	LG/ SAMSUNG/SONY
MULTIPLEXER	SENSORMATIC OR EQUIVALENT
SEQUENCER	ALBA/ VANTAGE
PROXIMITY CARD	MOTOROLA/ HUGHES/ HONEYWELL/GE/SIEMENS/HID
TELEPHONE TAG BLOCK	CTM ENGG/SYSTIMAX/SCHNEIDER/PANDUIT
TELEPHONE CABLES	DELTON / SKYTONE/ CLIPSAL/ HAVELLS
CO-AXIAL CABLES	FINOLEX/ HAVELLS/ POLYCAB
EPABX	ALKATEL/ SIEMENS/ NEC/ AVAYA/ PANASONIC
CCTV SYSTEM	AXIS / IMPULSE/ IDIS/ BOSCH/ HONNEYWELL /TYCO
ACCESS CONTROL SYSTEM	HONEYWELL/ SIEMENS/SYRIS
NURSES CALL SYSTEM	AMTEK/RAULAND/AFCON/DAKSH
VIDEO CONFERENCE SYSTEM	POLYCOM/SONY/SYSCO

AUDIO PROCESSOR	BOSE/BSS/CLEARONE
BMS CONTROLLER/SOFTWARE CENTRAL CONTROL BMS SERVER	IBM/HP/DELL
BUILDING MANAGEMENT SYSTEM, BUILDING MANAGEMENT WEB BASED SERVER SOFTWARE, PROGRAMMABLE & APPLICATION SPECIFIER CONTROLLER	SIEMENS/HONEYWELL EBI/TYCO / SCHNEIDER
SENSOR & FIELD DEVICES IMMERSION TYPE TEMPERATURE SENSORS, FLOW METER, ULTRA SONIC THERMAL ENERGY METER , OUTSIDE T+RH SENSOR	SIEMENS/KELE/SAUITER RACE
WATER LEVEL SWITCHES, FLAME PROOF LEVEL SWITCHES	KELE/ VESKLER/FLIPRO
DC VOLTAGE TRANSDUCER, CURRENT RELAY	KELE/SITU/OMICRON
ROOM TYPE TEMP. SENSOR, CO2 SENSOR, AMBIENT TEMP. SENSOR	SIEMENS/KELE/TRANE
CO SENSOR	DWYER/KALE/MSR GERMAN
PRESSURE TRANSMITTER	SIEMENS/TRANE/OMICRON
DIFFERENTIAL PRESSURE SENSOR	SIEMENS/TRANE/VEKLER
FIRE SUPPRESSION SYSTEM	SIEMENS/KIDDE/TYCO
HIGH MAST AND POLES	BAJAJ ELECTRICALS / MY FAIR LIGHT/ PARUTHI ENGINEERING
SERVICE/ PASSENGER ELEVATORS	KONE/SCHINDLER/OTIS

PHE WORKS

S.NO.	ITEM	MANUFACTURERS NAME
1.	VITREOUS CHINA AND FIRECLAY SANITARYWARE WITH COVER	JAQUAR/HINDWARE/PARRYWARE/ ROCA / KOHLER / CERA
3.	STAINLESS STEEL SINKS	JAYNA/ PARRYWARE/ NEELKANTH/ NIRALI/ CERA
4.	C.P. FITTINGS & ACCESSORIES	JAQUAR/HINDWARE/PARKO/ROCA/ CERA
5.	C.P. WASTE, SPREADERS, URINAL FLUSH PIPES	JAQUAR/ HINDWARE/ PARRYWARE/ ROCA / CERA
6.	SS COCKROACH TRAPS, GRATINGS FOR FLOOR DRAINS, FLOOR TRAPS AND RAIN WATER GRATINGS	CHILLY/ JAYNA/ CAMRY
7.	SOIL, WASTE & FITTINGS (a) CENTRIFUGALLY CAST SPUN CAST IRON PIPES (IS:3989)	SKF/ NECO/BIC/ PRINCE/ SUPREME/ KISSAN

8.	RCC PIPES	PRAGATI / JAIN SPUN/ ISI MARKS OF REPUTED COMPANY
9.	PVC/ CPVC PIPES & FITTINGS	ASTRAL/ ASHIRVAD /PRINCE/ FINOLEX /PRAKASH/ SUPREME
10.	HAND DRIER	JAQUAR/ HINDWARE/EURONICS
11.	BALL VALVES	ZOLOTO/ LEADER/ AIP/ SANT / NEU-G
12.	RAIN WATER PIPES & FITTINGS UPVC PIPES AND FITTINGS	PRINCE/ SUPREME/ PRAKASH/ FINOLEX/ ORI-PLAST
13.	WAFER TYPE BUTTERFLY VALVES	ZOLOTO/ LEADER/ AIP/ DANFOSS/ SANT / NEU-G
14.	WAFER TYPE NON-RETURN VALVES	ZOLOTO/ LEADER/ AIP/ DANFOSS SANT / NEU-G
15.	WATER METRES	CAPSTAN/KRANTI/KAYCEE/AQUAM ET
16.	BALL COCKS	GPA/ DRP/ SANT/ L & K
17.	STONEWARE PIPES & GULLY TRAPS	PERFECT/ BURN/ RK/ SAURAKHI / MOU
18.	C.I. MANHOLES COVERS AND FRAMES	NECO/ RIF/ BIC/SKF/BIC/ RPMF
19.	RCC MANHOLE COVERS & FRAMES	KK/ PRAKASH/ JSP
20.	FASTNERS	HILTI/INTELLOTEC / TRUCTEK / FISHER
21.	WATER HEATER	HAVELLS/ BAJAJ/ CROMPTON GREAVES
22.	HOT WATER NEOPRENE INSULATION	KAIFLEX
23.	GATE/ FULLLL WAY VALVES AND GLOBE VALVES	LEADER/ZOLOTO/SANT
24.	AIR RELEASE VALVES	SANT/ LEADER/DANFOSS/ ZOLOTO
25.	PIPECOAT	IWL LIMITED/ PYPKOTE
26.	C. I. PIPE	RIF, NECO, SKF, HEPCO, BIC
27.	G. I. PIPE	JINDAL, TATA, SWASTIK, APL APOLLO, SURYA PRAKASH
28.	G.I. FITTINGS (MALLEABLE CAST IRON)	JINDAL / SURYA PRAKASH /DRP-M/ ZOLOTO-M/ UNIK
29.	M.S. FITTINGS (FORGED)	DRP/ VS
30.	OVERHEAD WATER TANK	SINTEX, SHEETAL, EUREWELL
31.	WATER COOLER	BLUE STAR/VOLTAS/GODREJ
32.	R.O WATER PURIFIER	KENT/EUREKA FORBES/ ION EXCHANGE
33.	WATER TREATMENT PLANT	ION EXCHANGE/ THERMAX/ BRISANZIA

34	HDPE PIPE	PRINCE/ SUPREME/ PRAKASH/ FINOLEX/ DUROLINE
35	DI PIPE	JINDAL/ PRINCE/ SUPREME/ PRAKASH/ FINOLEX/ JAI BALAJI
36	DI PIPE FITTINGS	JINDAL/ PRINCE/ SUPREME/ PRAKASH/ FINOLEX/ JAI BALAJI

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

CED (ENVT & CM),
WAPCOS Limited
Environment Division
76-C, Sector -18,
Gurgaon -122015

Subject: “Comprehensive Annual Repair Maintenance & Operation (CARMO) works along with Renovation/Interior works at AIIA Goa (Package-II)”.

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

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.)
Comprehensive Annual Repair Maintenance & Operation (CARMO) works along with Renovation/Interior works at AIIA Goa (Package-II)	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 AIIA 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 equipments 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 AIIA/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: Comprehensive Annual Repair Maintenance & Operation (CARMO) works along with Renovation/Interior works at AIIA Goa (Package-II).

Comprehensive Annual Repair Maintenance & Operation (CARMO) works along with Renovation/Interior works at AIIA Goa (Package-II) - Bill of Quantity (BoQ) -reg		
SUMMARY -TOTAL COST		
S.No.	Description	Amount(Rs.)
1	CIVIL Work Part	15,811,555
2	CIVIL Material Supply Part	5,335,816
3	ELECTRICAL Work Part	2,878,165
4	ELECTRICAL Material Supply Part	4,573,479
5	Labour Cess @ 1% on Sl no. 2, 3 & 4	127,875
A	TOTAL (A) (Excluding GST)	28,726,890
<p>**Above mentioned rates excludes 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 WAPCOS/AIIA</p>		

**Comprehensive Annual Repair Maintenance & Operation (CARMO) works along with Renovation/Interior works at AIIA Goa (Package-II) -
Bill of Quantity (BoQ) -reg**

Civil works (for DSR Items Reference DSR -2023 Specification)						
Sl.	DSR 2023	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	25	177.50	4,437.50
2	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	25	260.30	6,507.50
3	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	25	215.60	5,390.00
4	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	20	352.15	7,043.00
5	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	30	196.00	5,880.00
6	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
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	5	6189.65	30,948.25
9	4.1.8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 cement : 4 coarse sand (zone-iii) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	5	6812.00	34,060.00
10	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
11	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

12	5.9.3	centering and shuttering including strutting, propping etc. and removal of form for Suspended floors, roofs, landings, balconies and access platform	sqm	15	927.25	13,908.75
13	5.9.7	centering and shuttering including strutting, propping etc. and removal of form for Stairs, (excluding landings) except spiral-staircases	sqm	15	764.95	11,474.25
14	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	300	107.85	32,355.00
15	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	12	7132.25	85,587.00
16	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	20	1123.80	22,476.00
17	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	20	104.80	2,096.00
18	8.6	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	sqm	120	506.70	60,804.00
19	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	70	4481.30	313,691.00
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	9.23	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	5	462.35	2,311.75
22	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
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	10	199.15	1,991.50
24	9.26	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	sqm	10	106.70	1,067.00
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	10	221.10	2,211.00
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	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	100	219.10	21,910.00
28	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	20	1308.35	26,167.00
29	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	50	239.40	11,970.00
30	9.127.2	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	25	897.30	22,432.50

31	9.141	Providing and fixing PVC Door Frame of size 50x47 mm with a wall thickness of 5 mm (\pm 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	25	573.45	14,336.25
32	9.142.2	35 mm thick factory made Solid panel PVC Door shutter, made out of single piece extruded solid PVC profiles, 5 mm (\pm 0.2 mm) thick, having styles & rails (except lock rail) of size 95 mmx 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 mitred 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	10	4713.05	47,130.50
33	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	1000	133.70	133,700.00
34	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	20	5804.35	116,087.00
35	10.7	Providing and fixing ball bearing for rolling shutters.	each	20	492.35	9,847.00
36	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	50	583.30	29,165.00
37	10.22	Welding by gas or electric plant including transportation of plant at site etc. complete.	Cum	1000	3.70	3,700.00
38	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	100	123.60	12,360.00
39	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	500	172.60	86,300.00
40	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	200	196.80	39,360.00
41	10.30.1	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :4.0 mm thick glass panes	sqm	10	1064.65	10,646.50
42	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	10	1390.15	13,901.50

43	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	50	1948.25	97,412.50
44	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	30	2354.70	70,641.00
45	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	180	1267.95	228,231.00
46	11.37A	Providing and fixing 1st quality ceramic glazed floor 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	180	1112.70	200,286.00
47	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	25	1553.45	38,836.25
48	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	50	305.15	15,257.50
49	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 x 1 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	50	298.25	14,912.50
50	12.37.1	Providing and fixing 100 mm diameter and 60 cm long rain water spout in cement mortar 1:4 (1 cement : 4 fine sand). Stone ware spout	each	10	164.20	1,642.00
51	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	50	362.85	18,142.50
52	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	20	395.60	7,912.00
53	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	20	248.80	4,976.00
54	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	300	377.40	113,220.00
55	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	25	91.70	2,292.50

56	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	25	136.15	3,403.75
57	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	100	93.10	9,310.00
58	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	100	127.60	12,760.00
59	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	100	105.90	10,590.00
60	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	100	150.35	15,035.00
61	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	100	93.10	9,310.00
62	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	100	131.85	13,185.00
63	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	150	369.85	55,477.50
64	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	75	371.30	27,847.50
65	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
66	12.45.1	Providing and fixing false ceiling at an 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, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of	sqm	150	1355.8	203370

67	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	130	1401.35	182,175.50
68	12.50.	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	sqm	200	738.65	147,730.00
69	12.52.1	Providing and fixing true 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 galvanized 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 details by Engineer-in-charge. G.I Metal Ceiling	sqm	150	1902.95	285,442.50
70	12.52.4	12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I, of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing.	sqm.	10	1528.00	15,280.00
71	12.53	Providing and fixing 15 mm thick densified regular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main 'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24x3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calcicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening"for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized steel level	sqm	50	2158.15	107,907.50

72	13.1.1	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	sqm	50	347.05	17,352.50
73	13.1.2	12 mm cement plaster of mix :1:6 (1 cement: 6 fine sand)	sqm	50	333.35	16,667.50
74	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	100	399.45	39,945.00
75	13.2.2	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 fine sand)	sqm	50	383.00	19,150.00
76	13.16.1	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	sqm	50	300.45	15,022.50
77	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	500	156.05	78,025.00
78	13.37.1	White washing with lime to give an even shade : New work (three or more coats)	sqm	32000	39.05	1,249,600.00
79	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	9500	185.65	1,763,675.00
80	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	9500	160.60	1,525,700.00
81	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	4500	102.80	462,600.00
82	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	100	70.35	7,035.00
83	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	50	547.40	27,370.00
84	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	10	1782.55	17,825.50
85	14.3	Fixing chowkhat in existing opening in brick/ RCC wall with dash fasteners/ Chemical fasteners of appropriate size (3 nos on each vertical member of door chowkhat and 2 nos on each vertical member of window chowkhats), including Cost of dash fasteners/ chemical fastener.	Each	25	217.10	5,427.50
86	14.5.1	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty: Float glass panes of thickness 4 mm	sqm	100	1090.65	109,065.00
87	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	100	1416.15	141,615.00
88	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	10	1227.30	12,273.00
89	14.9	Renewal of old putty of glass panes (length)	metre	100	56.15	5,615.00
90	14.10.	Refixing old glass panes with putty and nails	sqm	50	729.85	36,492.50
91	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	50	298.85	14,942.50
92	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	20	123.70	2,474.00
93	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	20	271.45	5,429.00
94	14.40.1	Providing and fixing chromium plated brass butt hinges with necessary chromium plated brass screws etc. complete. 125x70x4 mm (ordinary type)	Each	50	171.05	8,552.50

95	13.87.1	White washing with lime to give an even shade : Old work (two or more coats)	sqm	200	22.85	4,570.00
96	13.88	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	sqm	7500	19.75	148,125.00
97	13.41.1	Distemping 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	1200	185.65	222,780.00
98	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	2500	25.15	62,875.00
99	13.92.1	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Old work (one or more coats)	sqm	50	93.30	4,665.00
100	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
101	13.96.1	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 :75 mm diameter pipes	metre	1500	28.20	42,300.00
102	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	1600	36.25	58,000.00
103	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	1600	52.25	83,600.00
104	13.98.1	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	8000	92.00	736,000.00
105	13.105	Re-lettering with black Japan paint of approved brand and manufacture.	Per letter per cm height	2267	3.85	8,727.95
106	14.18.1	Flush pointing with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement for flat tile bricks on top of mud phaska : With F.P.S. brick tiles	sqm	100	137.70	13,770.00
107	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 challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding. Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done.	sqm	750	338.25	253,687.50
108	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 (Quaterly Cleaning 185000x4)	litre	90000	0.50	45,000.00

109	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	300	108.30	32,490.00
110	14.77	Cleaning of chocked 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	2220	340.75	756,465.00
111	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	7600	422.70	3,212,520.00
112	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	2	433.75	867.50
113	14.80.1	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. Long pattern W.C Pan of size 580x440 mm	Each	10	3501.70	35,017.00
114	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	10	4478.75	44,787.50
115	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
116	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	3	1503.60	4,510.80
117	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	10	3551.25	35,512.50
118	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	10	2060.20	20,602.00
119	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	10	367.20	3,672.00
120	15.12.2	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : of area beyond 3 sq. metres	each	10	502.75	5,027.50
121	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	10	143.50	1,435.00
122	15.13.2	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead of area beyond 3 sq. metres	each	10	188.90	1,889.00
123	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	78.7	5.65	444.66

124	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	360	73.40	26,424.00
125	15.27	Demolishing mud phaska in terracing and disposal of material within 50 metres lead.	cum	10	914.30	9,143.00
126	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
127	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	500	54.65	27,325.00
128	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	200	263.95	52,790.00
129	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
130	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 to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	cum	10	10117.60	101,176.00
131	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) : Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	500	530.90	265,450.00
132	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	200	634.45	126,890.00
133	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	sqm	50	1505.25	75,262.50
134	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	100	1139.30	113,930.00

135	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
136	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
137	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	5	8042.30	40,211.50
138	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	10	1550.60	15,506.00
139	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	5	4940.80	24,704.00
140	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
141	17.35.1.1	Providing and fixing soil, waste and vent pipes : 100 mm dia Sand cast iron S&S pipe as per IS: 1729	metre	5	1151.90	5,759.50
142	17.35.2.1	Providing and fixing soil, waste and vent pipes : 75 mm diameter : Sand cast iron S&S pipe as per IS: 1729	metre	5	1044.75	5,223.75
143	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	5	362.85	1,814.25
144	17.37.2	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 75 mm dia pipe	each	5	360.00	1,800.00
145	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
146	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
147	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
148	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

149	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	250	401.55	100,387.50
150	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	50	518.75	25,937.50
151	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	350	702.95	246,032.50
152	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
153	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	25	537.60	13,440.00
154	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	25	627.25	15,681.25
155	18.11.1	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall : 15 mm dia nominal bore	metre	25	580.45	14,511.25
156	18.11.2	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall : 20 mm dia nominal bore	metre	100	635.20	63,520.00
157	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	20	322.15	6,443.00
158	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	20	315.35	6,307.00
159	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	20	467.75	9,355.00
160	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	20	540.30	10,806.00
161	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	20	617.05	12,341.00
162	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	20	762.15	15,243.00

163	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	20	1041.70	20,834.00
164	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	2	18896.70	37,793.40
165	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	3000	11.00	33,000.00
166	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	10	787.00	7,870.00
167	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	10	1386.55	13,865.50
168	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.	30	563.10	16,893.00
169	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.	3	5,879.90	17,639.70
170	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.	10	5,325.90	53,259.00
171	21.15.1	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete. Anodized (AC 15) aluminium	each	20	89.40	1,788.00
172	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	20	97.95	1,959.00
173	21.15.3	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete. Polyester powder coated minimum thickness 50 micron aluminium	each	20	95.10	1,902.00

174	21.16.1	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete. Anodized (AC 15) aluminium	each	20	107.90	2,158.00
175	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	20	109.30	2,186.00
176	21.16.3	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. Polyester powder coated minimum thickness 50 micron aluminium	each	20	112.15	2,243.00
177	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	20	66.25	1,325.00
178	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	15	39.6	594.00
179	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	15	130.1	1,951.50
180	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	10	115.15	1,151.50
181	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	10	99.7	997.00
182	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	10	82.55	825.50
183	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	10	64.7	647.00
184	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	10	303.25	3,032.50
185	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	10	260.6	2,606.00
186	9.66.1	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :125 mm	each	10	39.95	399.50
187	9.66.2	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :100 mm	each	10	32.55	325.50
188	9.66.3	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :75 mm	each	10	29.7	297.00
189	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	10	83.9	839.00
190	9.63.2	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :200x10 mm	each	10	69.4	694.00
191	9.63.3	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :150x10 mm	each	10	59.45	594.50
192	9.63.4	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :100x10 mm	each	10	44.3	443.00
193	9.62.1	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :300x16 mm	each	10	216.55	2,165.50
194	9.62.2	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :250x16 mm	each	10	193.7	1,937.00

195	22.1.1	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of : (i) 1st layer of 22 mm to 25 mm thick approved and specified rough stone slab over a 25 mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. (ii) 2nd layer of 25 mm thick cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportions. (iii) Finishing top with stone aggregate of 10 mm to 12 mm nominal size spreading @ 8 cudm/sqm thoroughly embedded in the 2nd layer. Using rough kota stone.	sqm	10	1515.6	15,156.00
196	22.2.1	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25 mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20 mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20 mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge : Using rough Kota stone	sqm	10	2024.7	20,247.00
197	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	20	170.7	3,414.00
198	8.32	Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. including:(a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design.(b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc. (c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item	sqm	100	5015.05	501,505.00
199	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	15	998.35	14,975.25
200	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	1500	241.75	362,625.00
201	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	sqm	2000	67.4	134,800.00
202	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	10	1706.55	17,065.50

203	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	200	335	67,000.00
204	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	1	142949	142,949.00
205	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	1500	262.7	394,050.00
206	13.44.1	Finishing walls with water proofing cement paint of required shade (Two or more coats applied @ 3.84 kg/10 sqm)	sqm	500	116.9	58,450.00
Total						18,599,134.81
TOTAL						18,599,134.81
210	NDSR	Providing and laying Flooring Mat with Chemical material	Sqm	30	1950.00	58500.00
Grand total						18,657,634.81
Taxable value						15,811,554.92
GST @ 18%						2,846,079.89
Total including GST						18,657,634.81

Note:

1. The above item/materials quantities may be increase or decrease as per the site requirement & direction of Engineer-in-Charge of WAPCOS/AIIA.

2.The item/materials which are not included in the estimate shall be made available at site for smooth functioning of hospital services.

**Comprehensive Annual Repair Maintenance & Operation (CARMO) works along with Renovation/Interior works at AIIA Goa (Package-II) -
Bill of Quantity (BoQ) -reg**

Civil Material (for DSR Items Reference DSR -2021 Specification)							
Item No	DSR 2023 ref	Description	Unit	Qty	Rate	DSR Amount	NDSR Amount
1	293	Stone Aggregate (Single size) : 40 mm nominal size	cum	3	1400	4200	
2	294	Stone Aggregate (Single size) : 25 mm nominal size	cum	3	1400	4200	
3	295	Stone Aggregate (Single size) : 20 mm nominal size	cum	10	1425	14250	
4	296	Stone Aggregate (Single size) : 12.5 mm nominal size	cum	10	1400	14000	
5	297	Stone Aggregate (Single size) : 10 mm nominal size	cum	10	1400	14000	
6	367	Portland Cement (OPC-43 Grade)	kg	6500	5.156	33514	
7	368	White Cement	kg	1000	10.5	10500	
8	593	C.P. Brass Extension Nipple (1/2"x2" size)	each	100	46	4600	
9	635	Bright finished or black enameled mild steel screws 50 mm	each	1500	0.8	1200	
10	637	Bright finished or black enameled mild steel screws 40 mm	each	1500	0.62	930	
11	696	Anodised Aluminium sliding door bolt 300x16 mm	each	200	160	32000	
12	697	Anodised Aluminium sliding door bolt 250x16 mm	each	200	130	26000	
13	698	Anodised Aluminium tower bolt (barrel type) 300x10 mm	each	200	61	12200	
14	699	Anodised Aluminium tower bolt (barrel type) 250x10 mm	each	200	50.5	10100	
15	0700	Anodised Aluminium tower bolt (barrel type) 200x10 mm	each	200	40	8000	
16	0701	Anodised Aluminium tower bolt (barrel type) 150x10 mm	each	200	32	6400	
17	703	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	each	100	33.5	3350	
18	0704	Anodised Aluminium handles 100 mm with plate 150 x 32 mm	each	100	29	2900	
19	0713	Block board Flush Door with teak wood ply on both side 35 mm thick	Sqm	10	1860	18600	
20	982	Coarse sand (zone III)	cum	15	1450	21750	
21	983	Fine sand (zone IV)	cum	10	980	9800	
22	1213	Water Proofing material	kg	100	45	4500	
23	1219	M.S Wire nails	kg	20	58	1160	
24	1245	Acid for cleaning tiles	Litre	150	20	3000	
25	1248	Epoxy based sealing Compound	kg	10	535	5350	
26	1301	Bleaching powder	kg	100	17	1700	
27	1309	C.I. bracket for wash basin and sinks	Pair	50	95	4750	
28	1313	8 mm dia C.P. Brass/ S.S. Jet with flexible tube upto 1 metre long with S.S. traingular plate for Eureopean type W.C.(Hindware/ Kingston/Prima/Parko/Marc)	each	20	220	4400	
29	1369	S.C.I. gully or nahani grating 100 mm dia	each	20	28	560	
30	1545	G.I. Pipes 15mm	mtr.	10	107	1070	
31	1546	G.I. Pipes 20mm	mtr.	75	139	10425	
32	1547	G.I. pipes 25 mm dia	metre	50	197	9850	
33	1548	G.I. pipes 32 mm dia	metre	50	247	12350	
34	1549	G.I. pipes 40 mm dia	metre	50	290	14500	
35	1550	G.I. pipes 50 mm dia	metre	50	390	19500	
36	1551	G.I. pipes 65 mm dia	metre	50	450	22500	
37	1641	G.I. Union 15 mm nominal bore	each	15	40	600	
38	1642	G.I. Union 20 mm nominal bore	each	15	60	900	
39	1643	G.I. Union 25 mm nominal bore each	each	15	125	1875	
40	1644	G.I. Union 32 mm nominal bore	each	15	160	2400	
41	1645	G.I. Union 40 mm nominal bore each	each	15	260	3900	
42	1646	G.I. Union 50 mm nominal bore each	each	15	330	4950	
43	1647	G.I. Union 65 mm nominal bore each	each	15	550	8250	
44	1608	G.I. tees (equal) 25 mm	Each	20	70	1400	
45	1612	G.I. tees (equal) 65 mm	Each	15	480	7200	
46	8636	CPVC Pipe 15mm outer dia	mtr.	200	43	8600	
47	8637	CPVC Pipe 20mm outer dia	mtr.	100	59	5900	
48	8638	CPVC Pipe 25mm outer dia	mtr.	100	95	9500	
49	8641	CPVC Pipe 50mm outer dia	mtr.	75	325	24375	
50	7188	U-PVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 75 mm dia	mtr.	120	74	8880	

51	7189	U-PVC pipes (working pressure 4 kg / cm ²) Single socketed pipe 110 mm dia	mtr.	200	142	28400	
52	7497	PTMT Ball Cock 25mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	Each	60	295	17700	
53	7406	PTMT pillar cock	Each	25	125	3125	
54	1364	C.I Grating 100X100mm	each	25	40	1000	
55	1689	Unplasticised P.V.C. Connection pipe with brass union 45 cm long 15mm bore	each	150	38	5700	
56	1875	White plastic seat (solid) with lid C.P. brass hinges and rubber buffers	each	75	451	33825	
57	1878	Shower rose C.P. brass for 15 to 20 mm inlet 100 mm dia	each	25	121	3025	
58	1889	C.P. brass toilet paper holder of standard size	each	25	308	7700	
59	1936	Gunmetal non-return valve-horizontal (screwed end) 50 mm dia	each	15	924	13860	
60	1949	Vitreous china angle back Wash Basin 600x480mm	Each	15	798	11970	
61	2464	Anodised Aluminium pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete	each	10	49	490	
62	2481	Ply wood 5 ply with teak ply on one face and commercial ply on another face 9 mm thick.	Sqm	25	908	22700	
63	7113	Rectangular shape 453x357 mm Mirror with Plastic moulded frame	each	50	307	15350	
64	7119	Flexible (coil shaped) PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	each	300	38	11400	
65	7120	Flexible (coil shaped) PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	each	50	38	1900	
66	7493	PTMT - Bottle Trap 31/32 mm	each	50	212	10600	
67	7494	PTMT - Bottle Trap 38/40 mm	each	35	218	7630	
68	7126	White Vitreous china 10 litre (full flush) capacity controlled low level flushing cistern with all fittings	each	20	730	14600	
69	7259	C.P. Brass long body bibcock 15 mm	each	25	530	13250	
70	7261	C.P. Brass angle valve 15 mm	each	40	378	15120	
71	7358	Flushing Cistern P.V.C. 10 litre capacity (low level) (White) (with fittings, accessories and flush pipe)	each	20	621	12420	
72	7359	P.V.C. automatic flushing cistern 5 litre capacity	each	15	477	7155	
73	7363	15 mm C.P. brass tap with elbow operation lever	each	10	464	4640	
74	7388	Dash hold fastener 12.5mm dia, 50 mm long with 6 mm dia bolt	each	50	10	500	
75	7394	Double action hydraulic floor spring with stainless steel cover plate	each	20	1615	32300	
76	7400	15 mm PTMT bib cock	each	100	70	7000	
77	7402	15 mm PTMT bib cock long body with flange	each	50	106	5300	
78	7403	15 mm dia PTMT stop cock (male thread)	each	50	65	3250	
79	7405	20 mm dia PTMT stop cock	each	10	73	730	
80	7407	PTMT push cock 15 mm dia each	each	25	61	1525	
81	7411	C.P 125 mm grating with waste hole	each	25	27	675	
82	7491	PTMT - Waste Coupling 31/32 mm	each	50	35	1750	
83	7492	PTMT - Waste Coupling 38/40 mm	each	50	40	2000	
84	7509	PTMT Soap Dish/Holder 138x102x75 mm	each	25	63	1575	
85	7801	Ceramic Glazed Tiles 1st quality 300 x 300 mm in all shades and designs of White, Ivory, grey, Fume Red brown etc.	sqm	560	200	112000	
86	8212	Stainless steel screws 30 mm	each	1000	2.55	2550	
87	8214	Stainless steel screws 20 mm	each	1000	3.88	3880	
88	8223	M.S. heavy weight butt hinges 100x75x3.5 mm IS: 1341 marked	each	100	20	2000	
89	8589	Calcium Silicate tegular edged ceiling tiles 495x495 mm and 15 mm thick on edges	sqm	75	822	61650	
90	8597	Providing and fixing Gi Metal Tile Clip in Plain Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick	sqm	50	793	39650	
91	8602	Gypsum Tiles Fully Perforated Square edge of Size 595x595 mm and 12.5 mm thick false ceiling	Sqm	40	450	18000	

92	8724	12 mm thick marine plywood conforming to IS: 710	sqm	20	785	15700	
93	303	Cow dung	Cum	25	270	6750	
94	1926	20 mm dia Gunmetal gate valve with wheel	Each	15	358	5370	
95	1649	Providing Polyethylene water storage tank with cover and suitable locking arrangement	liter	15000	6.5	97500	
96	2609	MS Brackets/Aluminium Alloy Brackets	kg	20	107	2140	
97	7121	Bottle Trap	Each	20	682	13640	
98	7257	C.P. Brass bibcock 15 mm	Each	20	330	6600	
99	7260	C.P. Brass stop cock 15 mm	Each	20	445	8900	
100	7495	ball cock 15mm	each	25	79	1975	
101	1700	R.C.C. pipes NP2 class 100 mm dia	meter	20	220	4400	
102	7406	PTMT pillar cock	Each	50	125	6250	
103	7496	PTMT Ball Cock 20mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	Each	20	120	2400	
104	7508	PTMT - Urinal Spreader 15 mm	each	15	60	900	
105	7504	PTMT - Towel Ring 215x200x37 mm	each	20	117	2340	
106	7505	PTMT - Towel Rail (450 mm long)	each	15	132	1980	
107	1956	Bolts and nuts 16 mm dia 60 mm long	Each	18	12	216	
108	1392	Mirror of superior make glass 60x45 cm	each	18	450	8100	
109	1885	15 mm C.P. brass tap	each	20	297	5940	
110	3229	Vitreous china flat back wash basin 550x400 mm	each	10	554	5540	
111	1954	Vitreous china orrisa type W.C. pan size 580 mm	each	15	1350	20250	
112	7188	upvc pipe 75 mm	meter	100	74	7400	
113	1023	galvnised J or L hook	10 nos	15	130	1950	
114	7764	M.s socket 100 mm dia	each	15	140	2100	
115	2602	Common burnt clay F.P.S. (non modular) bricks class designation 7.5	1000 nos	4	4724	18896	
116	7096	Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 225 mm	each	5	3600	18000	
117	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	200	36	7200	
118	7804	Rectified Ceramic Glazed Tiles 1st quality in all shades designs except White, Ivory, Grey, Fume Red Brown etc.	sqm	30	450	13500	
119	8621	Vitrified floor tile 60x60 cm conforming to IS 15622:2006 group (B1a)	sqm	75	550	41250	
120	8668	UV stabilised 2 mm thick corrugated FRP sheet	sqm	15	588	8820	
121	555	Chromium plated Brass handles 125 mm with plate 175 x32 mm	each	15	152	2280	
122	556	Chromium plated Brass handles 100 mm with plate 150 x 32 mm	each	15	135	2025	
123	558	Chromium plated Brass mortice latch and lock 100x65 mm with 6 levers and a pair of brass lever handles	each	15	541	8115	
124	589	Chromium plated Brass screws 20 mm	100 nos	10	152	1520	
125	590	Chromium plated Brass curtain rod 12 mm dia 1.25mm thick	metre	30	178	5340	
126	594	Bright finished or black enameled mild steel butt hinges 125x65x 2.12 mm	10 nos	10	122	1220	
127	595	Bright finished or black enameled mild steel butt hinges 100x58x 1.90 mm	10 nos	10	80	800	
128	639	Bright finished or black enameled mild steel screws 25 mm	100 nos	10	42	420	
129	638	Bright finished or black enameled mild steel screws 30 mm	100 nos	10	48	480	
130	642	Oxidised mild steel butt hinges 125x65x2.12 mm	10 nos	10	135	1350	
131	643	Oxidised mild steel butt hinges 100x58x1.90 mm	10 nos	10	96	960	
132	660	Oxidised mild steel sliding door bolt 300x16 mm	each	20	100	2000	
133	661	Oxidised mild steel sliding door bolt 250x16 mm	each	18	85	1530	
134	662	Oxidised mild steel door latch 300x20x6 mm	each	15	55	825	

135	663	Oxidised mild steel door latch 250x20x6 mm	each	15	42	630	
136	664	Oxidised mild steel tower bolt (barrel type) 250x10 mm	each	50	45	2250	
137	665	Oxidised mild steel tower bolt (barrel type) 200x10 mm	each	20	36	720	
138	668	Oxidised mild steel handles 125 mm	each	50	21	1050	
139	669	Oxidised mild steel handles 100 mm	each	50	16	800	
140	686	Oxidised mild steel screws 20 mm	100 nos	10	33	330	
141	685	Oxidised mild steel screws 25 mm	100 nos	10	39	390	
142	869	Plaster of paris	kg	100	7	700	
143	2406	Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm)	sqm	10	321	3210	
144	7029	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	sqm	20	260	5200	
145	8011	Factory made door frame PVC extruded sheet i/c carriage	metre	15	295	4425	
146	7003	Pair of Anodised Aluminium lever handles for 100 mm mortice latch and lock	each	18	237	4266	
147	2634	GI/Aluminium Sheet (0.8 mm thick)	kg	10	56	560	
148	1352	C.I. cover and frame 300x300 mm inside	each	12	525	6300	
149	10025	Areca Palm having ht. 1.20 m to 1.50 m with 5 to 6 suckers, well developed, fresh and healthy with lush green foliage in 25 cm size of Earthen pot / Plastic pot.	Each	25	165	4125	
150	10059	Livistona Palm having ht. 30 cm to 45 cm, well developed with 5 to 6 leaves, fresh & healthy foliage in 25 cm size of Earthen pot / Plastic pot	Each	25	84	2100	
151	10179	Creepier Rose variety 3 to 4 healthy branch 60 cm and above ht. well developed with one and above flowers in 25 cm Earthen Pot	Each	25	74	1850	
152	10266	Bottle palm of plants ht. 210-240 cm bottom girth 30-35 cm well devedoped in big HDPE bags.	Each	25	350	8750	
153	10272	Cassia siamea of plants height 150-165 cm. in big poly bags of plants size 25 cm	Each	25	65	1625	
154	10231	Clerodendron inerme plant of ht. 30 cm to 40 cm multi branched in 25 cm size of Earthen Pot / Plastic Pot.	Each	25	20	500	
155	455	Stainless steel SS grade 304, curtain rod 25 mm dia 1.20mm thick	mtr.	100	187	18700	
156	4202	Red oxide Zinc chromate primer	ltr	150	140	21000	
157	1007	Structural steel such as tees, angles channels and R.S. joists	quintal	1	5965	5965	
158	NDSR	coupler GI 20mm	each	50	30	1500	
159	NDSR	coupler GI 25mm	each	100	43	4300	
160	NDSR	coupler GI 32mm	each	20	76	1520	
161	NDSR	coupler GI 40mm	each	20	130	2600	
162	NDSR	coupler GI 50mm	each	20	170	3400	
163	NDSR	GI/ cPVC elbow reducer 15 mm	each	100	68	6800	
164	NDSR	GI /cPVC elbow reducer 20 mm	each	50	74	3700	
165	NDSR	GI/cPVC elbow reducer 32mm	each	25	53	1325	
166	NDSR	GI /cPVC elbow reducer 40mm	each	50	91	4550	
167	NDSR	GI/cPVC elbow reducer 50mm	each	15	121	1815	
168	NDSR	CPVC elbow 15mm (90)	each	50	36	1800	
169	NDSR	CPVC elbow 20 mm	each	100	47	4700	
170	NDSR	CPVC elbow 25mm	each	100	68	6800	
171	NDSR	CPVC elbow 32mm	each	20	100	2000	
172	NDSR	providing and fixing of roller blind of all colours	sqm	12	1450	17400	
173	NDSR	PVC washer	each	100	15	1500	
174	NDSR	GI plug 20mm	each	50	37	1850	
175	NDSR	GI plug 25mm	each	50	37	1850	
176	8227	Stainless steel fancy handle	each	50	115	5750	
177	NDSR	M-Seal PV Seal CPVC Solvent Cement – Ultra Strong for CPVC and UPVC Pipes and Fittings	litre	20	1300	26000	
178	NDSR	Steel Metco Multipurpose Drawer Lock with 2 Reversible Key	each	75	174	13050	

179	NDSR	Stainless Steel Telescopic Drawer Channel/Runner (Be Blue) 12 Inch (300 mm) with 3 Ball Bearing Weight Capacity Upto 35 kg (Silver)	each	25	490		12250
180	7076	Automatic Urinal Flusher with Infrared Sensor Technology	each	10	4770	47700	
181	NDSR	Teflon Tape 10mm	each	100	21		2100
182	NDSR	Male Adapter (CPVC Threads) 15mm	each	50	47		2350
183	NDSR	Male Adapter (CPVC Threads) 20mm	each	50	68		3400
184	NDSR	Male Adapter (CPVC Threads) 25mm	each	25	79		1975
185	NDSR	Male Adapter (CPVC Threads) 32mm	each	25	90		2250
186	NDSR	Male Adapter (CPVC Threads) 40mm	each	25	121		3025
187	NDSR	Male Adapter (CPVC Threads) 50mm	each	25	263		6575
188	NDSR	Female Adapter (CPVC Threads) 15mm	each	50	47		2350
189	NDSR	Female Adapter (CPVC Threads) 20mm	each	50	68		3400
190	NDSR	Female Adapter (CPVC Threads) 25mm	each	25	79		1975
191	NDSR	Female Adapter (CPVC Threads) 32mm	each	25	158		3950
192	NDSR	Female Adapter (CPVC Threads) 40mm	each	25	221		5525
193	NDSR	Female Adapter (CPVC Threads) 50mm	each	25	327		8175
194	NDSR	CPVC Union 15mm	each	50	65		3250
195	NDSR	CPVC Union 20mm	each	50	95		4750
196	NDSR	CPVC Union 25mm	each	25	110		2750
197	NDSR	CPVC Union 32mm	each	25	275		6875
198	NDSR	CPVC Union 40mm	each	25	275		6875
199	NDSR	CPVC Union 50mm	each	25	550		13750
200	NDSR	Stainless Steel Hooks Wall Hanger 6 Hooks for Clothes and Towel in Bathroom and Living Room	each	25	150		3750
201	NDSR	1/2 Inch to 1/2 Inch Male Threaded Brass Screwed Hex Nipple Pipe Quick Connector Extension	each	35	210		7350
202	NDSR	CPVC Coupling 15mm	each	50	15		750
203	NDSR	CPVC Coupling 20mm	each	25	25		625
204	NDSR	CPVC Coupling 25mm	each	25	50		1250
205	NDSR	Urinal Sensor Battery	each	25	45		1125
206	NDSR	25 mm dia Gunmetal gate valve with wheel	each	10	490		4900
207	NDSR	32 mm dia Gunmetal gate valve with wheel	each	10	545		5450
208	NDSR	Phase 15mm for CP Brass Bib Cock	each	25	301		7525
209	NDSR	Lime	kg	680	11		7480
210	NDSR	Alum	kg	360	28		10080
211	NDSR	Urea	kg	1600	17		27200
212	NDSR	DAP	kg	600	119		71400
213	NDSR	Rotech 106PS or Culture	Ltr	200	1219		243800
214	NDSR	Hypochlectrolyte 7PPm	Ltr	1300	16		20800
215	NDSR	Polyelectrolyte	Ltr	525	301		158025
216	NDSR	Gear Oil For Blower	Ltr	350	227		79450
217	NDSR	Chlorine	Ltr	250	1107		276750
218	NDSR	Brass Phase 1"	Nos.	100	850		85000
219	NDSR	Brass Phase 3/4"	Nos.	100	650		65000
220	NDSR	Brass Phase 1/2"	Nos.	100	550		55000
221	4204	hydrochl Acid	kg	200	40	8000	
222	NDSR	C.P. Connection Pipe 24"	Nos.	20	190		3800
223	NDSR	C.P Pillar Cock 15 mm	Nos.	20	720		14400
224	NDSR	CP Long Pillar Cock 1/2"	Nos.	20	885		17700
225	NDSR	Chhapka Kundi 3"x1"	Nos.	20	190		3800
226	NDSR	CP Health Faucet	Nos.	100	980		98000
227	NDSR	CP Sink Mixture Set	Nos.	15	5500		82500
228	9001	C.P. Brass Centre Hole Basin Mixer With Cast Spout	Nos.	15	1760	26400	
229	NDSR	CP. Sink Jali 4"	Nos.	60	110		6600
230	NDSR	CPVC (P) Elbow 2"	Nos.	50	915		45750
231	NDSR	PVC (P) Trap 4"	Nos.	15	366		5490
232	NDSR	PVC Gitti (Pcs.)	Nos.	500	5		2250
233	NDSR	PVC Long body Bib Cock 2way 1/2"	Nos.	140	290		40600
234	NDSR	PVC N Trap 3"x4"	Nos.	60	141		8460
235	NDSR	PVC Syphon Set L/L	Nos.	70	450		31500
236	NDSR	Window Rubber 5mm	Kg	50	150		7500
237	NDSR	Glass Film	sqm	60	550		33000
238	1924	H.P. or L.P. ball valve with polythene floats: 25 mm dia	Nos.	100	253	25300	
239	NDSR	PVC Concealed Ball Cock 1/2"	Nos.	50	550		27500
240	NDSR	PVC Tank Cover up to 5000 Ltr	Nos.	30	550		16500
241	8215	Stainless steel butt hinges 125x64x1.9 mm IS : 12817 marked	Nos.	60	39	2328	
242	8216	Stainless steel butt hinges 100x58x1.9 mm IS : 12817 marked	Nos.	60	35	2100	

243	NDSR	GI Channel 8'	Nos.	30	160		4800
244	NDSR	GI Channel 4'	Nos.	40	346		13840
245	NDSR	GI Channel 2'	Nos.	50	215		10750
246	7121	Bottle Trap	Nos.	50	682	34100	
247	7122	CP Brass Single lever telephonic wall mixer of approved make	Nos.	15	4800	72000	
248	NDSR	Water Curing Pipe 1"	metre	100	105		10500
249	2609	MS Brackets/Aluminium Alloy Brackets	kg	5	107	535	
250	NDSR	TPI Bearing	Nos.	40	80		3200
251	NDSR	GI Main Channel 12'	Nos.	120	450		54000
252	NDSR	SS Toilet Seat Fitting Rack Bolt Screw 20mm	set	50	400		20000
253	NDSR	PVC Waste Jali 1½"	Nos.	50	152		7600
254	NDSR	Siamp flush plate For Ball Mounted WC	Nos.	10	4200		42000
255	NDSR	M.S. Nut bolt 3"	Nos.	500	25		12500
256	NDSR	CP Extension Nipple 3"x1/2"	Nos.	50	250		12500
257	NDSR	CP Sink Jali 2"	Nos.	30	110		3300
258	NDSR	Hexa Blade Dual Side	Nos.	25	40		1000
259	NDSR	Dimak Oil (Ltr.)	Ltr.	100	550		55000
260	NDSR	PVC Syphon Set (High Level)	Nos.	20	2250		45000
261	2627	SS Screws - # 8 x 19	Nos.	3000	8	24000	
262	NDSR	Wooden Molding 2"	metre	80	150		12000
263	NDSR	CPVC Brass MTA 15mm	Nos.	15	180		2700
264	NDSR	CPVC Brass MTA 20mm	Nos.	25	230		5750
265	NDSR	CPVC Brass MTA 25mm	Nos.	25	353		8825
266	NDSR	CPVC Brass MTA 32mm	Nos.	25	731		18275
267	NDSR	CPVC Brass FTA 15mm	Nos.	25	360		9000
268	NDSR	CPVC Brass FTA 20mm	Nos.	25	410		10250
269	NDSR	CPVC Brass FTA 25mm	Nos.	25	455		11375
270	NDSR	CPVC Brass FTA 32mm	Nos.	25	745		18625
271	1879	Shower rose C.P. brass for 15 to 20 mm inlet 150 mm dia	Nos.	60	138	8280	
272	1924	H.P. or L.P. ball valve with polythene floats: 25 mm dia	Each	35.0	253.00	8855	
273	NDSR	CP Brass Angle Valve 1"	Each	30.0	450.00		13500
274	NDSR	PTMT Angle Valve 1/2"	Each	25.00	250.00		6250
275	NDSR	CPVC Brass MTA 1"	Each	20.00	352.00		7040
276	NDSR	CPVC MTA 4"	Each	20.00	550.00		11000
277	NDSR	CP Mixer Cap	Each	20.0	950.00		19000
278	NDSR	PTMT Angle Valve 1/2"	Each	20.00	250.00		5000
279	NDSR	PVC 2 Way Angle Valve 1/2"	Each	20.00	290.00		5800
280	NDSR	Table Top Glass 10mm thick	Sqm	20.00	1200.00		24000
281	NDSR	L / Bihari Hing	Each	25.00	560.00		14000
282	NDSR	Glass Bracket	Each	15.00	320.00		4800
283	8643	Chlorinated Polyvinyl - chloride (CPVC) pipe 80 mm nominal dia	MTR	50.00	1042.00	52100	
284	8642	Chlorinated Polyvinyl - chloride (CPVC) pipe 65 mm nominal dia	MTR	50.00	776.00	38800	
285	8641	Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm nominal dia	MTR	50.00	325.00	16250	
286	NDSR	SS Screw 60x10	NOS	1000.00	10.00		10000
287	NDSR	PTMT Two Way Bib Cock 1/2"	Each	30.00	250.00		7500
288	NDSR	M.S. Aldrop 12"x16mm	Each	50.0	250.0		12500
289	1923	H.P. or L.P. ball valve with polythene floats: 20 mm dia	Each	20.0	264.0	5280	
290	NDSR	PVC Zet Spray 1/2"	Each	30.0	980.0		29400
291	NDSR	S.R. 505 Adhesive (Ltr.)	Ltr.	10.0	650.0		6500
292	NDSR	Central Lock with Handle complete Set.	set	15.0	4800.0		72000
293	NDSR	Dhaga Soot	Each	50.0	20.0		1000
294	NDSR	Circular shape Manhole Cover of 650mm Dia with frame	Each	20.0	950.0		19000
295	NDSR	G.I. pipes 100 mm dia	mtr.	15.0	749.0		11235
296	NDSR	G.I. Coupler 15 mm nominal bore	Each	20.0	47.0		940
297	NDSR	G.I. Coupler 20 mm nominal bore	Each	20.0	81.0		1620
298	NDSR	G.I. Coupler 25 mm nominal bore	Each	20.0	110.0		2200
299	NDSR	G.I. Coupler 32 mm nominal bore	Each	15.0	161.0		2415
300	NDSR	G.I. Coupler 40 mm nominal bore	Each	15.0	204.0		3060
301	NDSR	G.I. Coupler 50 mm nominal bore	Each	15.0	304.0		4560
302	NDSR	G.I. Coupler 65 mm nominal bore	Each	15.0	420.0		6300
303	NDSR	G.I. Tee 15 mm nominal bore	Each	15.0	81.0		1215
304	NDSR	G.I. Tee 20 mm nominal bore	Each	15.0	131.0		1965
305	NDSR	G.I. Tee 25 mm nominal bore	Each	15.0	179.0		2685
306	NDSR	G.I. Tee 32 mm nominal bore	Each	15.0	307		4605
307	NDSR	G.I. Tee 40 mm nominal bore	Each	18.0	397		7146
308	NDSR	G.I. Tee 50 mm nominal bore	Each	15.0	648		9720
309	NDSR	G.I. Elbow 15 mm nominal bore	Each	10.0	55		550
310	NDSR	G.I. Elbow 20 mm nominal bore	Each	15.0	98		1470

311	NDSR	G.I. Elbow 25 mm nominal bore	Each	20.0	131		2620
312	NDSR	G.I. Elbow 32 mm nominal bore	Each	25.0	217		5425
313	NDSR	G.I. Elbow 40 mm nominal bore	Each	20.0	268		5360
314	NDSR	G.I. Elbow 50 mm nominal bore	Each	25.0	509		12725
315	NDSR	G.I. Plug 15 mm	Each	20.0	25		500
316	NDSR	G.I. Plug 20 mm	Each	25.0	34		850
317	NDSR	G.I. Plug 25 mm	Each	25.0	50		1250
318	NDSR	CPVC Ball Valve 20mm	Each	15.0	210		3150
319	NDSR	CPVC Ball Valve 25mm	Each	15.0	320.0		4800
320	NDSR	CPVC Ball Valve 32mm	Each	15.0	580.0		8700
321	NDSR	CPVC Ball Valve 50mm	Each	15.0	870.0		13050
322	NDSR	Consealed Cistern Internal fitting With plat	Each	15.0	4500.0		67500
323	NDSR	SS Jali 4"	Each	50.0	180.0		9000
324	7503	PTMT Liquid Soap Container of 400 ml capacity	Each	10.0	103.0	1030	
325	NDSR	SS Towel Rod	Each	25.0	79.0		1975
326	NDSR	Tree Pots 10"	Each	50.0	210.0		10500
327	NDSR	Tree Pots 12"	Each	50.0	280.0		14000
328	NDSR	Tree Pots 20"	Each	15.0	420.0		6300
329	NDSR	U-PVC pipes 50mm	Mtr.	20.0	635.0		12700
330	NDSR	U-PVC pipes 32mm	Mtr.	20.0	377.0		7540
331	NDSR	PVC P Trap 75mm dia	each	15.0	277.0		4155
332	NDSR	PVC P Trap 110mm dia	each	15.0	319.0		4785
333	NDSR	PVC Elbow 75mm	each	15.0	421.0		6315
334	NDSR	PVC Elbow 110mm	each	15.0	560.0		8400
335	NDSR	PVC Elbow 50mm	each	15.0	134.0		2010
336	NDSR	PVC Elbow 32mm	each	15.0	78.0		1170
337	7496	PTMT Ball Cock 20 mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	each	15.0	120.0	1800	
338	NDSR	Hexa Nipple 15mm	each	15.0	44.0		660
339	NDSR	Hexa Nipple 20mm	each	15.0	50.0		750
340	NDSR	Hexa Nipple 25mm	each	15.0	65.0		975
341	NDSR	G.I. Nipple 15mmx75mm	each	15.0	102.0		1530
342	NDSR	G.I. Nipple 20mmx75mm	each	15.0	139.0		2085
343	NDSR	G.I. Nipple 25mmx75mm	each	15.0	207.0		3105
344	NDSR	Reducer 25mmx20mm	each	15.0	95.0		1425
345	NDSR	Reducer 25mmx15mm	each	15.0	85.0		1275
346	NDSR	Reducer 20mmx15mm	each	15.0	68.0		1020
347	NDSR	Urinal Sensor Battery	each	40.0	45.0		1800
		Total				1857660.0	2736241.0
		Add Cartage @ 1%				18576.6	27362
		Total(I)				1876236.60	2763603
		Add GST @18%, Then Total				2213959.19	3261052.02
		Add Contractor Profit @ 15%, Then Total				2546053.07	3750209.827
		Total(II)				2546053.1	3750209.827
		Total DSR/NDSR				2546053.1	3750209.827
		GRAND Total(III)					6296262.9
						Taxable value	5335816.0
						GST @ 18%	960446.9
						Total including GST	6296262.9

Note:

1. The above item/materials quantities may be increase or decrease as per the site requirement & direction of Engineer-in-Charge of WAPCOS/AIIA.

2. The item/materials which are not included in the estimate shall be made available at site for smooth functioning of hospital services.

3. Payment shall be released only for executed quantity as per the direction of Engineer-in Charge WAPCOS/AIIA.

Comprehensive Annual Repair Maintenance & Operation (CARMO) works along with Renovation/Interior works at AIIA Goa (Package-II) - Bill of Quantity (BoQ) -reg						
Electrical Work						
(1) Annual Repair/Maintenance for HT Equipments and Electrical Installation						
Sl. no	Ref. DSR 2022/ NDSR	Description	Unit	Total Quantity	Unit Rate	Total Amount
A. DSR ITEMS						
SH-1-Wiring, Lights, Fans, and Other Electrical Installations						
1	CIVIL 13.100.1	Painting with aluminium paint of approved brand and manufacture to give an even shade: One or more coats on old work	sq. mtr.	20.00	96.00	1920.00
2	CIVIL 13.99.1	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade (for painting of electrical equipment / board/panels/wall brackets etc.) One or more coats on old work	sq. mtr.	100.00	79.95	7995.00
3	1.59	Dismantling of ceiling fan and painting the same 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 and replacing the damaged rubber reel, nuts and bolts with washers and safety pins, re-installing the same as required.	Each	20.00	261.00	5220.00
SH-2- Electrical Installation LT/HT						
4	2.3	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc.as required. (But without MCB/RCCB/Isolator)				
	2.3.1	6 way, Double door	Each	1.00	2206.00	2206.00
	2.3.2	8 way, Double door	Each	1.00	2573.00	2573.00
	2.3.3	12 way, Double door	Each	1.00	2315.00	2315.00
5	2.4	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/ Isolator)				
	2.4.1	4 way (4 + 12), Double door	Each	1.00	4091.00	4091.00
	2.4.2	6 way (4 + 18), Double door	Each	1.00	4974.00	4974.00
	2.4.3	8 way (4 + 24), Double door	Each	1.00	5967.00	5967.00
SH-3 - Earthings						
6	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.	set	1.00	6855.00	6855.00
7	5.4	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.	set	1.00	7472.00	7472.00
8	5.6	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required	set	1.00	13838.00	13838.00
9	5.10	Supplying and laying 25 mm X 5 mm copper strip in 40 mm dia G.I. Pipe from earth electrode including connection with brass nut, bolt, spring washer, excavation and re-filling etc. as required.	metre	1.00	1551.00	1551.00
10	5.11	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	metre	5.00	706.00	3530.00
11	5.15	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	metre	50.00	244.00	12200.00
12	5.18	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit / sub-main wiring/ cable as required.	metre	120.00	42.00	5040.00
SH-4 - LAYING OF HT/LT CABLE and TERMINATION						
13	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.				
	7.1.1	Upto 35 sq.mm	metre	60.00	387.00	23220.00
	7.1.2	Above 35 sq.mm and upto 95 sq.mm	metre	50.00	405.00	20250.00
	7.1.3	Above 95 sqmm and upto 185 sq.mm	metre	25.00	422.00	10550.00
	7.1.4	Above 185sq.mm and upto 400sq.mm	metre	25.00	474.00	11850.00
14	7.5	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing RCC/ HUME/ METAL pipe as required.				
	7.5.1	Upto 35sq.mm	metre	60.00	37.00	2220.00
	7.5.2	Above 35 sq.mm and upto 95 sq.mm	metre	40.00	57.00	2280.00
	7.5.3	Above 95 sqmm and upto 185 sq.mm	metre	15.00	77.00	1155.00
	7.5.4	Above 185sq.mm and upto 400sq.mm	metre	15.00	137.00	2055.00
15	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.				
	7.7.1	Upto 35 sq.mm (clamped with 1mm thick saddle)	metre	230.00	55.00	12650.00
	7.7.2	Above 35 sq.mm and upto 95 sq.mm(clamped with 25x3mm MS flat camp)	metre	50.00	130.00	6500.00
	7.7.3	Above 95 sqmm and upto 185 sq.mm(clamped with 25/40x3mm MS flat clamp)	metre	25.00	153.00	3825.00
	7.7.4	Above 185sq.mm and upto 400sq.mm(clamped with 40x3mm MS flat clamp)	metre	25.00	226.00	5650.00

16	9.1	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
	9.1.22	3.5 Core x 50 sqmm	Each	10.00	413.00	4130.00
	9.1.24	3.5 Core x 95 sqmm	Each	10.00	588.00	5880.00
	9.1.27	3.5 Core x 185 sqmm	Each	10.00	875.00	8750.00
	9.1.33	4 core x 16 sqmm	Each	20.00	309.00	6180.00
	9.1.34	4 core x 25 sqmm	Each	20.00	315.00	6300.00
17	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.				
	9.4.18	3.5 Core x 35 sqmm	Each	3.00	2478.00	7434.00
	9.4.19	3.5 Core x 50 sqmm	Each	3.00	2478.00	7434.00
	9.4.20	3.5 Core x 70 sqmm	Each	3.00	3363.00	10089.00
	9.4.21	3.5 Core x 95 sqmm	Each	3.00	3517.00	10551.00
	9.4.22	3.5 Core x 120 sqmm	Each	3.00	5438.00	16314.00
	9.4.23	3.5 Core x 150 sqmm	Each	3.00	4538.00	13614.00
	9.4.24	3.5 Core x 185 sqmm	Each	3.00	4538.00	13614.00
18	10.4	Supplying and making Indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :				
	10.4.2	120/150/185 sq mm	Each	2.00	14968.00	29936.00
19	10.5	Supplying and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required :				
	10.5.2	120/150/185 sq mm	Each	2.00	20100.00	40200.00
20		Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required.				
	10.6.2	120/150/185 sq mm	Each	2.00	38083.00	76166.00
21	10.7	Supplying and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 33 KV grade as required :				
	10.7.3	240/300 sq mm	Each	3.00	34216.00	102648.00
22	10.8	Supplying and making Indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 33 KV grade as required :				
	10.8.3	240/300 sq mm	Each	5.00	71644.00	358220.00
23	16.7.1	BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot eater circulation as specified without Ensulation				
	16.7.1.2	150mm dia.	Each	2.00	8333.00	16666.00
	16.7.1.3	125mm dia.	Each	2.00	7619.00	15238.00
	16.7.1.4	100mm dia.	Each	2.00	6640.00	13280.00
	16.7.1.5	80mm dia.	Each	5.00	4846.00	24230.00
	16.7.1.6	65mm dia.	Each	5.00	4530.00	22650.00
	16.7.1.7	50mm dia.	Each	5.00	4129.00	20645.00
24	16.2	INSULATED CHILLED WATER PIPING (Nitrile rubber insulation) ; Supplying, laying/ fixing, testing and commissioning of following nominal sizes of chilled water piping inside the building (with necessary clamps, vibration isolators and fittings but excluding valves, strainers, gauges etc.) duly insulated with following closed cell elastometric nitrile rubber of minimum 45 Kg / cu m density, thermal conductivity 0.037 W/MK or better at 20 deg mean temperature class 'O' insulation applied by suitable adhesive complete including repairing of damage to building etc. as per specifications and as required complete in all respect. Note:- The Pipes of sizes 150mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35mm thick M.S. Sheet for pipes upto 350 mm dia. and from minimum 7mm thick MS sheet for pipes of 400 mm dia and above.				
	16.2.5	200mm dia.(32 mm thick insulation)	Metre	2.00	6242.00	12484.00
	16.2.6	150mm dia. (32 mm thick insulation)	Metre	2.00	4278.00	8556.00
	16.2.7	125mm dia.(32 mm thick insulation)	Metre	2.00	3742.00	7484.00
	16.2.8	100mm dia. (32 mm thick insulation)	Metre	2.00	2980.00	5960.00
	16.2.9	80mm dia.(32 mm thick insulation)	Metre	2.00	2226.00	4452.00
	16.2.10	65mm dia(32 mm thick insulation)	Metre	2.00	1794.00	3588.00
	16.2.11	50mm dia(32 mm thick insulation)	Metre	32.00	1553.00	49696.00
	16.2.12	40mm dia. (32 mm thick insulation)	Metre	2.00	1257.00	2514.00
	16.2.13	32 mm dia(19 mm thick insulation)	Metre	2.00	1047.00	2094.00
	16.2.14	25 mm dia(19 mm thick insulation)	Metre	32.00	869.00	27808.00
25	16.7.4	Y - STRAINER of Ductile CI Body flanged ends with stainless steel strainer for chilled / hot water circulation including insulation as specified.				
	16.7.4.5	80 mm dia	Each	5.00	9882.00	49410.00
	16.7.4.6	65mm dia.	Each	5.00	7961.00	39805.00
	16.7.4.7	50mm dia	Each	2.00	5892.00	11784.00
	16.7.4.8	40mm dia.	Each	2.00	4399.00	8798.00
		INSULATION ON EXISTING PIPE				
26	16.5	Supplying, laying, fixing, testing and commissioning of following thickness closed cell elastometric nitrile rubber of class 'O' applied by suitable adhesive, as per specifications and as required complete in all respect.				
	16.5.1	32mm	sq m	5.00	1120.00	5600.00
	16.5.2	19mm	sq m	5.00	665.00	3325.00
		INSULATED VALVES				

27	16.7	Supplying, fixing, testing and commissioning of following valves, strainers, gauges in the chilled water plumbing duly insulated to the same specifications as the connected piping and adequately supported as per specifications.				
	16.7.1	BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot eater circulation as specified				
	16.7.1.5	80mm dia	Each	5.00	4846.00	24230.00
	16.7.1.6	65mm dia	Each	3.00	4530.00	13590.00
	16.7.1.7	50mm dia.	Each	5.00	4129.00	20645.00
	16.7.1.8	40mm dia	Each	5.00	3501.00	17505.00
28	16.7.2	BALANCING VALVE WITH BUILT IN MEASURING FACILITY with C I body flanged construction with EPDM coated disc with long pitch with protected out pipe insulation & PN 16 pressure rating for chilled / hot water circulation as specified.				
	16.7.2.4	100mm dia	Each	4.00	19885.00	79540.00
	16.7.2.5	80mm dia.	Each	4.00	13771.00	55084.00
	16.7.2.6	65 mm dia	Each	4.00	12325.00	49300.00
	16.7.2.7	50mm dia.	Each	4.00	10739.00	42956.00
	16.7.2.8	40 mm dia	Each	4.00	7614.00	30456.00
29	16.11.3	Supplying, fixing, testing and commissioning of following sizes Motorized Butter fly Valve with CI Body, SS Disc,O - ring and minimum PN-16 pressure rating , conforming to BS 5155, IS 13095, with IP-55 actuator, capable of accepting upto 10V DC , and upto 20mA electric signal and providing similar transduced feedback output to control system as required.				
	16.11.3.8	80mm dia.	Each	5.00	17838.00	89190.00
	16.11.3.9	65mm dia	Each	5.00	17666.00	88330.00
	16.11.3.10	50mm dia.	Each	5.00	17304.00	86520.00
30	16.12.2	Supply, installation, balancing and commissioning of fabricated at site GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required				
	16.12.2.4	Thickness 1.25mm sheet	Sqm	25.00	1793.00	44825.00
31	16.7.3	NON - RETURN VALVE with duel plate of C I body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating for chilled / hot water circulation including insulation as specified.				
	16.7.3.1	200 mm dia	Each	2	14492	28984.00
	16.7.3.2	150 mm dia	Each	1	9209	9209.00
	16.7.3.5	80 mm dia	Each	1	4272	4272.00
	16.7.3.6	65 mm dia	Each	2	3781	7562.00
32	17.1.2	Supplying, installation, testing & commissioning of smoke detector with builtin LED and mounting base complete with all connections etc. as per direction of engineer in charge	Each	10	1141.00	11410.00
33	18.21	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories :				
	18.21.1	Pendent Sprinkler	Each	50	522	26100.00
	18.21.2	Upright Sprinkler	Each	50	522	26100.00
34	17.1.1	Supplying, installation, testing & commissioning of heat detector operating at 54°C/57°C with rate of rise cum fixed temperature (dual thermistor) type with mounting base complete with all connection etc. as per direction of engineer in charge.	Each	50	1071	53550.00
35	17.1.2	Supplying, installation, testing & commissioning of smoke detector with builtin LED and mounting base complete with all connections etc. as per direction of engineer in charge	Each	50	1153	57650.00
36	17.1.4	Supplying, installation, testing & commissioning of manual call box of ABS type in surface/recess with stainless steel chain & hammer assembly complete with glass and push button etc. as per direction of engineer in charge.	Each	50	408	20400.00
						2150887.00
	A	ADD GST Factor @ 1.0633 for GST @18% After 17 July Now Grand Total 'A'				2287038.15
		TOTAL (A)				2287038.15
		B. NDSR ITEMS				
		SH-5- CEILING FAN/EXHAUST FAN				
37	NDSR	Rewinding of Ceiling Fan / Exhaust Fan with annealed and insulated Copper Wire with necessary insulation, separators vibration arresting shellac, etc. including replacement of bearing if any transportation to and from the spot to workshop inclusive of releasing the re-fixing complete as required.	Each	125.00	650.00	81250.00
38	NDSR	BALANCING VALVE WITH BUILT IN MEASURING FACILITY with C I body flanged construction with EPDM coated disc with long pitch with protected out pipe insulation & PN 16 pressure rating for chilled / hot water circulation as specified.				
a	NDSR	32 mm dia	Each	3.00	5200.00	15600.00
b	NDSR	25 mm dia	Each	3.00	3950.00	11850.00
39	NDSR	Supplying, fixing, testing and commissioning of following sizes Motorized Butter fly Valve with CI Body, SS Disc,O - ring and minimum PN-16 pressure rating , conforming to BS 5155, IS 13095, with IP-55 actuator, capable of accepting upto 10V DC , and upto 20mA electric signal and providing similar transduced feedback output to control system as required.				
a)	NDSR	25mm dia	Each	4.00	13450.00	53800.00
		SH-6- FIRE FIGHTING & PROTECTION SYSTEM				
40	NDSR	Refilling of fire extinguishers - CO2 type 4.5 Kg	Nos.	150.00	740.00	111000.00
41	NDSR	Refilling of ABC type fire extinguisher capacity 5 kg.	Nos.	150.00	680.00	102000.00
42	NDSR	Refilling of fire extinguishers-Water Type (9 Kg.)	Nos.	100.00	810.00	81000.00
43	NDSR	Hydraulic pressure testing of all types fire extinguisher as per IS:2190:2010 as required.	Nos	350.00	215.00	75250.00

SH-7- REPAIR/ REWINDING OF MOTOR/PUMPS						
44	NDSR	Complete overhauling of Electric Motor and Monoblock pump upto 2HP i/c its oiling, greasing and change of packing.	Each	1.00	1500.00	1500.00
45	NDSR	Lifting and lowering of submersible pump set and increasing depth of suction pipe if required.	Each	1.00	6000.00	6000.00
46	NDSR	Repair/Rewinding of Submersible pump/sump pump sets up to 5 HP Single/Three phase motor with annealed and insulated Copper Wire with necessary insulating, separators vibration arresting shellac, etc. including replacement of bearing if any transportation to and from the spot to workshop inclusive of releasing the re-fixing.	Each	1.00	6500.00	6500.00
47	NDSR	Rewinding, repairing & servicing of 5-10 HP motor including shaft fabrication, replacement of motor bearing, mechanical silicon seal and job for disassembling and refitted back & transportation charges.	Each	1.00	13500.00	13500.00
48	NDSR	Rewinding, repairing & servicing of 10-20 HP motor including shaft fabrication, replacement of motor bearing, mechanical silicon seal and job for disassembling and refitted back & transportation charges. .	Each	1.00	17000.00	17000.00
49	NDSR	Rewinding, repairing & servicing of 20-30 HP motor including shaft fabrication, replacement of motor bearing, mechanical silicon seal and job for disassembling and refitted back & transportation charges. .	Each	1.00	22750.00	22750.00
50	NDSR	Rewinding, repairing & servicing of 30-40 HP motor including shaft fabrication, replacement of motor bearing, mechanical silicon seal and job for disassembling and refitted back & transportation charges. .	Each	1.00	28300.00	28300.00
51	NDSR	Rewinding, repairing & servicing of 50-70 HP motor including shaft fabrication, replacement of motor bearing, mechanical silicon seal and job for disassembling and refitted back & transportation charges. .	Each	1.00	37600.00	37600.00
52	NDSR	Repairing/ Servicing upto 5HP Pump including shaft fabrication, replacement of bearing, mechanical silicon seal and job for disassembling and refitted back & transportation charges.	Each	1.00	6500.00	6500.00
53	NDSR	Repairing/ Servicing 5 to 10HP Pump including shaft fabrication, replacement of bearing, mechanical silicon seal and job for disassembling and refitted back & transportation charges	Each	1.00	10500.00	10500.00
54	NDSR	Repairing/ Servicing 20 to 30HP Pump including shaft fabrication, replacement of bearing, mechanical silicon seal and job for disassembling and refitted back & transportation charges.	Each	1.00	18000.00	18000.00
55	NDSR	Repairing/ Servicing 30 to 40HP Pump including shaft fabrication, replacement of bearing, mechanical silicon seal and job for disassembling and refitted back & transportation charges.	Each	1.00	22000.00	22000.00
56	NDSR	Repair / Rewinding of Submersible pump/sump pump sets up to 7.5-10 HP Single/Three phase motor with annealed and insulated Copper Wire with necessary insulating, separators vibration arresting shellac, etc. including replacement of bearing if any transportation to and from the spot to workshop inclusive of releasing the re-fixing.	Each	1.00	15500.00	15500.00
SH-8 MISCELLANEOUS						
57	NDSR	Replacement of heating element of Geyser with capacity of 1.5 KW	Each	10.00	1500.00	15000.00
58	NDSR	Replacement of heating element of Geyser with capacity of 2.0 KW	Each	10.00	1500.00	15000.00
59	NDSR	Laying of LAN/ CAT-5/6, RG59 (Coaxial) Cable following size on wall surface as required	metre	2500.00	12.00	30000.00
60	NDSR	Supply, Installation, Testing & commissioning of IBR Steam/ PNG/ Oil / Hot Water pipe Seamless Sch 40 complete with bends, sockets, flanges, gasket etc for supplying steam / hot water from boiler etc. complete as required.				
	a)	15 mm	Metre	20	288.00	5760.00
	b)	20 mm	Metre	20	342.00	6840.00
	c)	25 mm	Metre	25	408.00	10200.00
	d)	32 mm	Metre	20	498.00	9960.00
	e)	40 mm	Metre	20	588.00	11760.00
	f)	50 mm	Metre	10	888.00	8880.00
	NDSR	0				0.00
	a)	20 mm	Each	4	2500.00	10000.00
	b)	25 mm	Each	4	3200.00	12800.00
	c)	32 mm	Each	4	4620.00	18480.00
	d)	40 mm	Each	4	5500.00	22000.00
61	NDSR	Providing of Insulation on Steam/ Hot Water Pipe line with minimum 50 mm thick glass wool of 80 Kg per cubic metre, MS wire net & 26 SWG Aluminum Sheet etc. as required.	Metre	100	900.00	90000.00
62	NDSR	Brass Steam Valve/ Gate Valve as per Required				
	a)	15 mm	Each	1	8654.00	8654.00
	b)	20 mm	Each	1	9443.00	9443.00
	c)	25 mm	Each	1	10773.00	10773.00
	d)	32 mm	Each	1	18925.00	18925.00
	e)	40 mm	Each	1	22410.00	22410.00
	f)	50 mm	Each	1	34912.00	34912.00
		TOTAL (B)				1109197.00
		GRAND TOTAL (A+B)				3396235.15
					Taxable value	2878165.38
					GST @ 18%	518069.77
					Total including GST	3396235.15
Note:						
1. The above item/materials quantities may be increase or decrease as per the site requirement & direction of Engineer-in-Charge of WAPCOS/AIIA						
2.The item/materials which are not included in the estimate shall be made available at site for smooth functioning of hospital services.						

3. Payment shall be released only for executed quantity as per the direction of Engineer-in Charge of WAPCOS/AIIA

Comprehensive Annual Repair Maintenance & Operation (CARMO) works along with Renovation/Interior works at AIIA Goa (Package-II) - Bill of Quantity (BoQ) -reg							
Electrical Material							
Sl. no	Ref. No.	PARTICULAR OF ITEMS	UNIT	Total Quantity	RATE	DSR Amount	NDSR Amount
	DSR 2022/NDSR	SH-I Maintenance of EI and Fans					
		Providing of ISI marked, FRLS PVC insulated, single core copper conductor cable					
1	1101	1.5 sq. mm	metre	1600.00	18.00	28800.00	
2	1102	2.5 sq. mm	metre	1000.00	28.00	28000.00	
3	1103	4 sq. mm	metre	200.00	42.00	8400.00	
4	1104	6 sq. mm	metre	150.00	63.00	9450.00	
5	1105	10 sq. mm	metre	100.00	106.00	10600.00	
6	1106	16 sq. mm	metre	100.00	164.00	16400.00	
7	1111	1 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable.	metre	125.00	8.00	1000.00	
8	1224	20 mm dia. ISI marked, PVC conduit	metre	50.00	21.00	1050.00	
9	1225	25 mm dia. ISI marked, PVC conduit	metre	50.00	29.00	1450.00	
10	1227	40 mm dia. ISI marked, PVC conduit	metre	50.00	64.00	3200.00	
11	1229	20mm dia PVC band	Each	5.00	8.00	40.00	
12	1230	25 mm dia PVC band	Each	5.00	11.00	55.00	
13	1232	40 mm dia PVC bend	Each	5.00	28.00	140.00	
14	1234	20 mm PVC Pipe couplers	Each	5.00	6.00	30.00	
15	1235	25 mm PVC Pipe couplers	Each	5.00	7.00	35.00	
16	1402	S.P. 5/6 A, one way modular switch, ISI marked	Each	150.00	34.00	5100.00	
17	1403	S.P. 5/6 A, two way modular switch, ISI marked	Each	150.00	68.00	10200.00	
18	1404	S.P. 15/16 A, one way modular switch, ISI marked	Each	150.00	74.00	11100.00	
19	1405	3 pin 5/6 A modular socket outlet, ISI marked	Each	150.00	63.00	9450.00	
20	1406	6 pin 15/16 A modular socket outlet, ISI marked	Each	150.00	105.00	15750.00	
21	1407	Modular bell push, ISI marked	Each	25.00	62.00	1550.00	
22	1408	Stepped type Modular Fan regulator(2 module)	Each	50.00	220.00	11000.00	
23	1420	Modular base & cover plate for 1 module	Each	100.00	42.00	4200.00	
24	1421	Modular base & cover plate for 2 module	Each	100.00	42.00	4200.00	
25	1423	Modular base & cover plate for 4 module	Each	100.00	61.00	6100.00	
26	1424	Modular base & cover plate for 6 module	Each	100.00	79.00	7900.00	
27	1425	Modular base & cover plate for 8 module	Each	13.00	101.00	1313.00	
28	1451	UTP 4 Pair CAT 6 LAN Cable	mtr.	200.00	28.00	5600.00	
29	1452	PVC Batten/ Angle Holder	Each	200.00	22.00	4400.00	
30	1610	3 Pole MCCB, 100 A, 16KA IEC CERTIFIED	Each	3.00	2644.00	7932.00	
31	1611	3 Pole MCCB, 125 A, 16KA IEC CERTIFIED	Each	3.00	3403.00	10209.00	
32	1622	4 pole MCCB,100 A, 30KA IEC CERTIFIED	Each	3.00	5623.00	16869.00	
33	1623	4 pole MCCB, 125 A, 36KA IEC CERTIFIED	Each	2.00	5961.00	11922.00	
34	1625	4 pole MCCB,250A, 36KA IEC CERTIFIED	Each	1.00	12953.00	12953.00	
35	1627	4 pole MCCB,400A, 50KA, IEC CERTIFIED	Each	1.00	31928.00	31928.00	
36	1628	4 pole MCCB,630A, 50KA, IEC CERTIFIED	Each	1.00	32250.00	32250.00	
37	1706	6 amps. to 32 amps. ratings , SP MCB, C-curve,10 KA breaking capacity	Each	100.00	135.00	13500.00	
38	1707	6 amps. to 32 amps. ratings , SPN MCB, C-curve,10 KA breaking capacity	Each	25.00	394.00	9850.00	
39	1708	6 amps. to 32 amps. ratings , DP MCB, C-curve,10 KA breaking capacity	Each	25.00	437.00	10925.00	
40	1709	6 amps. to 32 amps. ratings , TP MCB, C-curve,10 KA breaking capacity	Each	4.00	702.00	2808.00	
41	1710	6 amps. to 32 amps. ratings , TPN MCB, C-curve,10 KA breaking capacity	Each	10.00	869.00	8690.00	
42	1717	25 Amps. rating ,2 pole RCCB, 30mA	Each	3.00	1458.00	4374.00	
43	1718	40 Amps. rating ,2 pole RCCB, 30mA	Each	3.00	1922.00	5766.00	
44	1719	63 Amps. rating ,2 pole RCCB, 30mA	Each	3.00	1982.00	5946.00	
45	1721	40 amps. rating, 4 pole RCCB, 30mA	Each	3.00	2290.00	6870.00	
46	1722	63 amps. rating, 4 pole RCCB, 30mA	Each	3.00	2052.00	6156.00	
47	1739	8 way, SPN, double door , MCB DB	Each	3.00	1624.00	4872.00	
48	1740	12 way, SPN, double door , MCB DB	Each	3.00	1429.00	4287.00	
49	1742	Sheet Steel DP MCB enclosure	Each	30.00	300.00	9000.00	
50	1743	Sheet Steel TPN MCB enclosure	Each	30.00	354.00	10620.00	
51	2133	Brass compression gland for (28 mm) 4 X 16 sq. mm, 1.1 KV grade cable	Set	32.00	75.75	2424.00	

52	2201	Aluminium lugs for 6 sq. mm cable	Each	50.00	1.58	79.00	
53	2202	Aluminium lugs for 10 sq. mm cable	Each	50.00	2.10	105.00	
54	2203	Aluminium lugs for 16 sq. mm cable	Each	50.00	3.00	150.00	
55	2204	Aluminium lugs for 25 sq. mm cable	Each	10.00	4.13	41.30	
56	2205	Aluminium lugs for 35 sq. mm cable	Each	10.00	4.95	49.50	
57	2206	Aluminium lugs for 50 sq. mm cable	Each	10.00	7.43	74.30	
58	2208	Aluminium lugs for 95 sq. mm cable	Each	50.00	11.55	577.50	
59	2210	Aluminium lugs for 150 sq. mm cable	Each	10.00	12.38	123.80	
60	2211	Aluminium lugs for 185 sq. mm cable	Each	10.00	17.25	172.50	
61	2213	Aluminium lugs for 240 sq. mm cable	Each	10.00	22.50	225.00	
62	2214	Aluminium lugs for 300 sq. mm cable	Each	10.00	27.75	277.50	
63	2215	Aluminium lugs for 400 sq. mm cable	Each	10.00	39.75	397.50	
64	2855	Steel fastener 6 mm X 75 mm	Each	100.00	7.20	720.00	
65	2857	PVC fastener 40mm long	Each	50.00	0.90	45.00	
66	2881	GI saddles 19mm x 0.55mm for conduit	Each	50.00	1.80	90.00	
67	2882	GI saddles 25mm x 0.90mm for conduit above 25mm	Each	50.00	1.80	90.00	
68	2919	G.I. nuts and through bolts with washer	Each	100.00	31.50	3150.00	
69	3109	Motorized Valve 65mm	Each	2	12413.90	24827.80	
70	3108	Motorized Valve 80mm	Each	2	12535.17	25070.34	
71	3037	Balancing Valve 65mm	Each	2	8120	16240.00	
72	3036	Balancing Valve 80mm	Each	2	9200	18400.00	
73	3014	M.S. Pipe - 25 mm dia 25mm	Mtr.	10	255.5	2555.00	
74	3013	M.S. Pipe - 32 mm dia 25mm	Mtr.	10	326.2	3262.00	
75	3010	M.S. Pipe - 65 mm dia 25mm	Mtr.	10	679	6790.00	
76	3009	M.S. Pipe - 80 mm dia 25mm	Mtr.	10	848.4	8484.00	
77	4071	50 mm thick resin bonded glass wool having density of 32kg/m3	Sqm.	25	234.15	5853.75	
78	1586	Sandwich Rising Mains with Aluminium bus bar 1250 amps 50KA lsc for 1 sec	Mtr.	5	19374	96870.00	
79	1587	Sandwich Rising Mains with Aluminium bus bar 1600 amps 50KA lsc for 1 sec	Mtr.	5	23160	115800.00	
80	NDSR	3mm Thik. Hylem Sheet	sq.cm	2865.00	1.20	3438	
81	NDSR	Fan Capacitor 2 to 4 MFD	Each	150.00	90.00	13500	
82	NDSR	Exhaust Fan Heavy Duty 450 mm	Each	5.00	6200.00	31000	
83	NDSR	Exhaust Fan Heavy Duty 380 mm	Each	5.00	3800.00	19000	
84	NDSR	Exhaust Fan Heavy Duty 300 mm	Each	5.00	2500.00	12500	
85	NDSR	Ventilating Fan Non-metallic 200 mm	Each	10.00	2200.00	22000	
86	NDSR	Ventilating Fan Non-metallic 250 mm	Each	10.00	2300.00	23000	
87	NDSR	Supply of Wall Fan 400 mm sweep	Each	10.00	2550.00	25500	
88	NDSR	Supply of Wall Fan 450 mm sweep	Each	10.00	2700.00	27000	
89	NDSR	Supply of Ceiling Fan (1200 MM) BEE 5 star	Each	10.00	2450.00	24500	
90	NDSR	Ball Bearing	Each	50.00	75.00	3750	
91	NDSR	Bush	Each	50.00	25.00	1250	
92	NDSR	combined box 2 module	Each	50.00	145.00	7250	
93	NDSR	5A 3pin Plug Top	Each	50.00	60.00	3000	
94	NDSR	15A 3pin Plug Top	Each	50.00	72.00	3600	
95	NDSR	6 Amp. Bed Switch	Each	50.00	24.00	1200	
96	NDSR	PVC insulated Tape 5 Mtr	Each	150.00	15.00	2250	
97	NDSR	63 amps DP MCB, 10 KA , "C" curve	Each	10.00	950.00	9500	
98	NDSR	63 amps FP MCB, 10 KA , "C" curve	Each	10.00	1700.00	17000	
99	NDSR	Supply of 4 way Extension board with 6A sockets	Each	5.00	510.00	2550	
100	NDSR	Supply of 4 way Extension board with 16A sockets	Each	5.00	975.00	4875	
101	NDSR	Supply of Modular RJ 45 Cat-6 computer Socket	Each	10.00	125.00	1250	
102	NDSR	Surface & wall mounted 20 Watts 4 feet long LED Batten Tube Light	Each	250.00	475.00	118750	
103	NDSR	Surface & wall mounted 10 Watts 2 feet long LED Batten Tube Light	Each	20.00	360.00	7200	
104	NDSR	Supply of surface mounted 36 W LED LED Panel 2 x 2 feet	Each	150.00	2750.00	412500	
105	NDSR	Supply of 70 Watt LED Street Light Fixture on existing Pole	Each	6.00	5900.00	35400	
106	NDSR	Supply of 50 Watts LED Flood light	Each	5.00	3850.00	19250	
107	NDSR	Supply of 100 Watts LED Flood light	Each	5.00	4800.00	24000	
108	NDSR	Supply of 150 Watts LED Flood light	Each	1.00	9425.00	9425	
109	NDSR	Supply of 200 Watts LED Flood light	Each	1.00	13565.00	13565	
110	NDSR	pole junction Box with clamp of size 150X200 MM (approx.) and 2 nos. Aluminium strip and 1 no. 6 A SP MCB (Sintex Make) PVC or similar foot street light.	Each	10.00	520.00	5200	
111	NDSR	Aluminium conductor Cable 185 Sq mm 3.5 core - XLPE armoured ISI marked	Meter	25.00	1948.00	48700	

112	NDSR	Aluminium conductor Cable 95 Sq mm 3.5 core - XLPE armoured ISI marked	Meter	30.00	1051.00		31530
113	NDSR	Aluminium conductor Cable 50 Sq mm 3.5 core - XLPE armoured ISI marked	Meter	25.00	620.00		15500
114	NDSR	Aluminium conductor Cable 35 Sq mm 3.5 core - XLPE armoured ISI marked	Meter	25.00	460.00		11500
115	NDSR	Aluminium conductor Cable 25 Sq mm 4 core - XLPE armoured ISI marked	Meter	50.00	406.00		20300
116	NDSR	Aluminium conductor Cable 16 Sq mm 4 core - XLPE armoured ISI marked	Meter	90.00	313.00		28170
117	NDSR	HT (33KV) Three Core Power Cables - Aluminium Conductor 300 sq. mm	Meter	15.00	5981.00		89715
118	NDSR	Submersible Copper Cable 3 x 1.5 sqmm	metre	150.00	75.00		11250
119	NDSR	Submersible Copper Cable 3 x 2.5 sqmm	metre	150.00	120.00		18000
120	NDSR	Red Grease for bearings of fan ,motors, pumps etc.	kg	10.00	430.00		4300
121	NDSR	Supply at Site 100AH 12V DC Battery	Each	2.00	9800.00		19600
122	NDSR	Supply at Site 130/135AH 12V DC Battery	Each	2.00	13500.00		27000
123	NDSR	Supply at Site 150AH 12V DC Battery	Each	2.00	14900.00		29800
124	NDSR	Supply at Site 180AH 12V DC Battery	Each	2.00	17500.00		35000
125	NDSR	thermostat of geyser	Each	15.00	350.00		5250
126	NDSR	thermostat of oven/Grill	Each	15.00	375.00		5625
127	NDSR	Inline Ductable exhaust fan (centrifugal fan) air volume m3/Hr 2140,speed 2700 rpm nose level 76, maximum temprature-60,	Each	2.00	17500.00		35000
128	NDSR	HT Tape	Each	25.00	390.00		9750
129	NDSR	Pressure Gauge Meter	Each	25.00	1950.00		48750
130	NDSR	Siphon with Brass Nozzle	Each	50.00	1150.00		57500
131	NDSR	3x3 Modular Box [2M]	Each	100.00	70.00		7000
132	NDSR	4x3 Modular Box [3M]	Each	100.00	110.00		11000
133	NDSR	4x3 Modular Plate [3M]	Each	100.00	55.00		5500
134	NDSR	5x3 Modular Box [4M]	Each	100.00	126.00		12600
135	NDSR	8x3 Modular Box [6M]	Each	100.00	168.00		16800
136	NDSR	Coupling Tyre 13/14 No.	Each	10.00	1688.00		16880
137	NDSR	2.5 Sqmm 2 Core Copper Cable	Mtr.	75.00	185.00		13875
138	NDSR	10 Sqmm 3 Core Copper Cable	Mtr.	60.00	410.00		24600
139	NDSR	MNX-18 Contactor	Each	15.00	1850.00		27750
140	NDSR	MNX-25 Contactor	Each	15.00	2480.00		37200
141	NDSR	MNX-50 Contactor	Each	10.00	9660.00		96600
142	NDSR	MNX-A1 contactor	Each	20.00	450.00		9000
143	NDSR	14-23 AMP. MN2 Overload Relay	Each	15.00	2090.00		31350
144	NDSR	100 Watt. GLS Bulb	Each	35.00	16.00		560
145	NDSR	15W LED Surface Panel Light	Each	80.00	950.00		76000
146	NDSR	18 W Round LED Panel Fitting	Each	80.00	1560.00		124800
147	NDSR	Wire Clip (6mm)	Pkt	100.00	80.00		8000
148	NDSR	PVC Gitti 6mm	Pkt	100.00	65.00		6500
149	NDSR	Casing Capping 25mm (Batten Patti)	Mtr.	200.00	51.60		10320
150	NDSR	Casing Capping 50mm (Batten Patti)	Mtr.	200.00	57.20		11440
151	NDSR	Halogen Lamp 500 W [Halonix]	Each	25.00	135.00		3375
152	NDSR	16 ² Sqmm FTC Cable Connector [Terminal block]	Each	50.00	60.00		3000
153	NDSR	35 ² Sqmm FTC Cable Connector [Terminal block]	Each	50.00	80.00		4000
154	NDSR	9W LED Bulb	Each	100.00	112.00		11200
155	NDSR	Copper Lugs 6m	Each	50.00	12.00		600
156	NDSR	Copper Lugs 16m	Each	50.00	20.00		1000
157	NDSR	Gypsum Screw 1.5"	Pkt	20.00	475.00		9500
158	NDSR	Pedestal Fan Sweep Size 400mm	Each	8.00	2620.00		20960
160	NDSR	35x8 Wooden screw	Pkt	25.00	105.00		2625
161	NDSR	Motor Connection Plate	Each	10.00	650.00		6500
162	NDSR	25mm PVC Flexible Pipe	Mtr.	100.00	50.00		5000
163	NDSR	Water Proofing Tape	Each	25.00	345.00		8625
164	NDSR	1.5Mfd Wall Fan Capacitor	Each	10.00	135.00		1350
165	NDSR	5mm Batten Clip	Pkt	25.00	69.00		1725
166	NDSR	Remote Control Call Bell	Each	50.00	580.00		29000
167	NDSR	Ding Dong Call Bell	Each	25.00	230.00		5750
168	NDSR	Old Dhoti of Cleaning work	Each	400.00	32.00		12800
169	NDSR	Single Phase Preventer	Each	25.00	1650.00		41250
170	NDSR	8 Pin Relay 250VAC/28VDC 10A	Each	25.00	890.00		22250
171	NDSR	Ampere meter 30/5 upto	Each	20.00	700.00		14000
172	NDSR	Volt meter 300 Volt uoto	Each	20.00	650.00		13000
185	NDSR	Float Switch Fluid Level Controller	Each	12.00	2250.00		27000
186	NDSR	Post TOP Light fitting 15 Watt (for Boundary wall)	Each	20.00	1650.00		33000
187	NDSR	Wall Mount Air Curtain Door Size 4 Fit dia (930 x 185 x 209 mm)	Each	2.00	28780.00		57560
188	NDSR	AHU Door Hinges	Each	25.00	1250.00		31250
189	NDSR	6- 8mm Rubber Insulated Floor Mat width 1 meter	Mtr.	15.00	2400.00		36000

190	NDSR	Ball Valve 25mm brass	Each	10	1445		14450
191	NDSR	Ball Valve 50mm brass	Each	10	5157		51570
192	NDSR	Motorized Valve 25mm	Each	10	14550		145500
193	NDSR	Motorized Valve 32mm	Each	10	16550		165500
194	NDSR	MS Flange 25mm	Each	20	218		4360
195	NDSR	MS Flange 32mm	Each	20	248		4960
196	NDSR	MS Flange 65mm	Each	20	595		11900
197	NDSR	MS Flange 80mm	Each	20	795		15900
198	NDSR	Air Release Valve 15mm	Each	20	2650		53000
199	NDSR	Rectangle Digital Fire Exit Signs	Each	20	6250		125000
200	NDSR	AHU Door Lock	Each	10	1950		19500
201	NDSR	2-4 MP Dome Camera 1080P HD for CCTV	Each	5	3900		19500
202	NDSR	2.4MP Bullet Camera 1080P HD for CCTV	Each	5	5200		26000
207	NDSR	Supply at Site 18AH 12V DC Battery	Each	3	3900.00		11700
208	NDSR	Supply at Site 42AH 12V DC Battery	Each	3	5500.00		16500
209	NDSR	Air Over Motor 650W	Each	2	8000.00		16000
210	NDSR	Bed light 24 w	Each	10.00	1700.00		17000
211	NDSR	Diffuser cover	Each	10	1350.00		13500
212	NDSR	Honeywell Water Flow switch (10 kgf/cm2)	Each	8	4000.00		32000
		Total				767184.79	3170378
		Add Cartage @ 1%				7671.85	31703.78
		Total(I)				774856.64	3202081.78
		Add GST @18%, Then Total				914330.83	3778456.50
		Add Contractor Profit @ 15%, Then Total				1051480	4345224.98
		Total(II)				1051480	4345224.98
		Total DSR/NDSR				1051480	4345224.98
		GRAND Total(III)					5396705.43
						Taxable value	4573479.18
						GST@ 18%	823226.25
						Total including GST	5396705.43
Note:							
1. The above item/materials quantities may be increase or decrease as per the site requirement & direction of Engineer-in-Charge of WAPCOS/AIIA.							
2.The item/materials which are not included in the estimate shall be made available at site for smooth functioning of hospital services.							
3. Payment shall be released only for executed quantity as per the direction of Engineer-in Charge of WAPCOS/AIIA							