



(भारत सरकार का उपक्रम-जल शक्ति मंत्रालय)
(A Government of India Undertaking-Ministry of Jal Shakti)

TENDER DOCUMENT FOR

**“Construction of Girls Hostel and VC Residence at Chaudhary Bansi
Lal University, Prem Nagar, Bhiwani”**

WAP/CCM/2026-27/ CBLU/T4/01

Date: 07-05-2026

**WAPCOS LIMITED
1st floor, Plot no. 148, Sector- 44, Gurugram,
Haryana-122015**

May, 2026

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NOTICE INVITING TENDER (NIT)

NOTICE INVITING TENDER (NIT)**NIT No. WAP/CCM/2026-27/ CBLU/T4/01****Dated 07-05-2026**

WAPCOS Limited (A Govt. of India Undertaking) on behalf of Chaudhary Bansi Lal University, Bhiwani (CBLU), invites open online Item Rate tender from experienced, competent and eligible bidders.

1.	Work/ Project	“Construction of Girls Hostel and VC Residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”.
2.	Site / Location	Prem Nagar, Bhiwani, Haryana
3.	Website for viewing tender, Corrigendum/ Addendum, if any.	www.wapcos.co.in & www.etenders.gov.in/eprocure
4.	Website for Registration/ uploading of Tender	www.etenders.gov.in/eprocure
5.	Estimated / NIT Cost	Rs. 11,89,37,771 /- excluding GST
6.	Cost of Tender Document	Rs. 10,000/- (Rupees Ten thousand Only) as Tender Processing Fee in the form of Demand Draft
7.	Earnest Money Deposit (EMD) / Bid Security	<p>Rs. 21.89 Lakhs (Refundable) in the form of Insurance Surety Bonds/ Account Payee Demand Draft/ Fixed Deposit Receipt/ Banker’s Cheque or Payment through RTGS/ NEFT in favor of ‘WAPCOS Limited’ payable at Gurugram, Haryana.</p> <p>OR</p> <p>A part of EMD is acceptable in the form of Bank Guarantee including e- Bank Guarantee also. In this cases Rs. 20 lakhs EMD to be deposited in shape prescribed above and balance Rs. 1.89 lakhs will be accepted in form of Bank Guarantee issued by Nationalized/ Scheduled Commercial Bank approved by Reserve Bank of India (RBI).</p> <p>The bank account as per details: Name of Bank: Indian Overseas Bank Bank Account Number: 193502000000405 IFSC Code: IOBA0001935 Branch Name: National Horticulture Board (NHB) Building, G-85, Industrial Area, Sector-18, Gurugram-122015, Haryana</p> <p>Note: Bid Security shall remain valid for a period of 45 days beyond final bid validity period.</p>
8.	Solvency Certificate/ Banker’s Certificate/ Net worth Certificate	Rs. 4.76 Cr. in original from a Nationalized/ Scheduled Commercial Bank approved by Reserve Bank of India (RBI). The Certificate should be issued between the publishing of NIT & last date of submission of Bids, including extensions if any and shall be addressed to WAPCOS Limited, 76-C, Institutional Area, Sector-18, Gurugram, Haryana quoting the name of the work. The certificate should

		<p>carry name, designation of the bank official, who has the authority to issue Solvency Certificate.</p> <p style="text-align: center;">OR</p> <p>Banker's Certificate from a Nationalized/ Scheduled Commercial Bank approved by Reserve Bank of India (RBI) of amount equal to 40% of the estimated cost put to tender (ECPT)</p> <p style="text-align: center;">OR</p> <p>Net worth Certificate of minimum 10% of the estimated cost put to tender issued by Certified Chartered Accountant with UDIN.</p> <p>Note: This Certificates will be verified from the issuing authority by WAPCOS.</p>
9.	Joint Ventures / Consortia of firms	Not allowed
10.	Project Completion Period	18 Months from the Date of Commencement of Work" i.e. <u>15 days after Date of Award</u> or <u>Handing over of Site</u> , whichever is later
11.	Bid Validity Period	90 days from the date of opening of Technical bid
12.	Site Visit	Bidders are advised/encouraged to visit the site for actual assessment of the project site location and its consequences during execution of work
13.	Pre Bid Meeting	15/05/2026 at 3:00 PM to be held in the office of Chief Engineer, Centre for Construction Monitoring, WAPCOS Limited
14.	Last date & time for online submission of Technical & Financial Bid	28/05/2026 up to 15:00 hours
15.	Offline Submission of Technical document as per Tender	28/05/2026 up to 14:00 hours in the office of Chief Engineer, Centre for Construction Monitoring at 1st Floor, NPCC Building, Plot No. 148, Sector- 44 Gurugram- 122003, Haryana
16.	Online opening of Technical Bid	29/05/2026 up to 15:00 hours
17.	Online opening of Financial Bid	Intimated to Technical Qualified Bidders.
18.	Tender Inviting Authority & Communication address during Tendering and Execution of Works	<p>Chief Engineer, Centre for Construction Monitoring, WAPCOS Limited, 1st floor, Plot no. 148, Sector- 44, Gurugram, Haryana-122003 Email: buildings@wapcos.co.in Contact No. +91124-4488018</p>
19.	The Bid Security/ EMD / Solvency Certificate / BG against Performance Security/ BG against Mobilization Advance/ shall be addressed to WAPCOS Corporate Office	<p>WAPCOS Limited 76-C, Institution Area Sector-18, Gurugram, Haryana-122015</p>

- The tender document has to be viewed/ downloaded from above specified websites. Bidders are

advised to visit above specified websites regularly for updates /Amendments/ Corrigendum, if any and not be published elsewhere. The Updates/Corrigendum/Addendum shall be followed up to submission of tender and it will be the part of tender.

- 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. The Bidders must read all the terms and conditions of bidding document carefully and only submit the bid, if eligible and in possession of all the documents required. Corrigendum while all efforts have been made to avoid errors in the drafting of the tender documents, the Bidder is advised to check the same carefully. No claim on account of any errors detected in the tender documents shall be entertained.
- 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.
- 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.
- 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.
- No reimbursement of cost of any type or on any account will be paid to persons or entities submitting their Bid.
- 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.
- 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 submit the signed 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.

For and on behalf of WAPCOS LIMITED
Chief Engineer

SECTION- I

INSTRUCTIONS TO BIDDER

SECTION– I INSTRUCTIONS TO BIDDER

1.0 SPECIAL INSTRUCTIONS TO BIDDERS FOR E-TENDERING

1.1 GENERAL

Submission of Online Bids is mandatory for this Tender. E-Tendering is a methodology for conducting Public Procurement in a transparent and secured manner. For conducting electronic tendering, bidders shall use the portal www.etenders.gov.in/e procure. Tender is invited in Single Stage -Two Envelope system, one Technical Bid and second as financial bid. Accordingly, bidder is directed to make all formalities and registration on www.etenders.gov.in/e procure website and submit the Technical Bid and Financial bid.

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 from website: <https://etenders.gov.in/e procure/app>.

1.2 REGISTRATION

- a) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://etenders.gov.in/e procure/app>) by clicking on the link “Online bidder Enrollment” on the CPP Portal which is free of charge.
- b) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- c) 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.
- d) 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.
- e) 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.
- f) 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.

1.3 SEARCHING FOR TENDER DOCUMENTS

- a) 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.
- b) 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.
- c) 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.

1.4 PREPARATION OF BIDS

- a) Bidder should take into account any corrigendum, Addendum published on the web portal along with tender document before submitting their bids.
- b) Bidder should read the tender document, corrigendum, Addendum and any other related correspondence, carefully to understand the documents required to be submitted as part of the bid.
- c) 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.

1.5 SUBMISSION OF BIDS

- a) Please uninstall any Java version if installed already. Then go to this link <https://eprocure.gov.in/cppp/jre-windows-i586.exe> and download this prescribed version of java for this portal.
- b) 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.
- c) 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.
- d) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- e) Bidder has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument.
- f) 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.
- g) 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.
- h) 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.
- i) 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.
- j) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
 - k) 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.
 - l) 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.

2.0 INSTRUCTIONS 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 bidder has read Each Section of Tender Document, Corrigendum, Addendum and other related correspondence and has made himself aware about the complete scope of work under the tender document. Accordingly, Contract shall be governed by each Section of Tender Document and all other Conditions mentioned in the tender documents.
- 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 in competing 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.

- a) 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.
- b) The company reserves the right to waive minor deviations if they do not materially affect the capability of the Tenderer to perform the contract
- c) 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.
- d) 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) / BID SECURITY

The Earnest Money Deposit shall be as per the details mentioned in NIT. EMD shall not carry any interest. The Bid Security/ EMD of the unsuccessful bidder shall be returned at the earliest after expiry of final bid validity period and latest by 30th days after the award of the contract. Bid Security shall be refunded to the successful bidder on receipt of Performance Security.

The successful bidder shall accept the Letter of Award (LOA) within 7 (Seven) 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 bidder withdraws or make any changes in his offer already submitted before the expiry of the validity period or any extension thereof without the written consent of the company, the EMD amount will be forfeited for such act of the bidder.

WAPCOS Limited reserves the right of forfeiture of Earnest Money deposit (EMD) in case of the successful bidder.

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

The Bid Security will be forfeited in the bidder

- i) withdraws or amends its/ his tender;
- ii) impairs or derogates from the tender in any respect within the period of validity of the tender;
- iii) If the bidder does not accept the correction of his bid price during evaluation; and
- iv) If the successful bidder fails to sign the contract or furnish the required performance security within the specified period.

4.0 LANGUAGE OF BID

The Bid and all related correspondence and documents relating to the Project shall be in English language. 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.

5.0 BIDDERS RESPONSIBILITY

The Bidder is solely responsible for the details of their Bid and the preparation of bids. In no case shall the WAPCOS be responsible for any part of the tender documents submitted by him. Any Site information given in this tender document is for guidance only. The Bidder is advised to visit and examine the Site of works and its surroundings at their cost and obtain for themselves on their own responsibility, all information that may be necessary for preparing the tender and entering into a Contract. Irrespective of whether or not the Bidders have attended the pre-bid meeting, they shall be deemed to have inspected the Site and its surroundings beforehand and taken into account all relevant factors pertaining to the Site and clarifications/ modifications/ additions given in Pre-Bid meeting or addendum issued in the preparation and submission of the Bid.

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

6.0 PERIOD OF COMPLETION

The completion period shall be as per NIT. The completion period is for the entire work of planning, execution, approvals, arrangement of materials, equipment, delivery at site including transportation, construction/ installation, testing, commissioning, NoCs & statutory approvals from local bodies and successfully handing over of the entire project to the satisfaction of the Principal Employer/ Employer/ State Officer.

7.0 AMENDMENT OF BID DOCUMENTS

At any time prior to the deadline for submission of bids, the Employer may, for any reason (s), whether at their own initiative or in response to a clarification requested by a prospective Bidder, modify the Bidding Documents by the issuance of a corrigendum/ addendum. No modification of Bid shall be permissible after last date of submission, whatever may be the reason. The Employer may at their discretion extend the deadline for submission of Tender/ Bid, if considered necessary.

Any corrigendum/ addendum thus issued shall be part of the bidding documents. Prospective Bidders shall download the same from the e-portal and submit along with the submission of Bid as token of acceptance.

8.0 BID VALIDITY PERIOD

Bids validity will be as per NIT. In exceptional circumstances, on expiry / prior to expiry of original bid validity period, the WAPCOS may request the successful bidder for a specified extension in the period of validity. A Bidder may accept OR refuse the request of extension of validity period. A Bidder agreeing Extension of validity period will not be required/nor permitted to modify his bid. In case of refuse of request of extension of validity period tender will be cancelled.

9.0 CURRENCY OF BID

Bid prices shall be quoted in Indian Rupees.

SECTION– II

SELECTION AND QUALIFYING CRITERIA

SECTION-II

SELECTION AND QUALIFYING CRITERIA

1.0 SITE VISIT

Intending Bidder(s) are advised to inspect and examine the site at his own cost and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid in order to avoid impractical and non-serious bids. 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 at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work

The bidder and any of its personnel or agents will be granted permission by the Employer/Owner to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the bidder, its personnel, and agents will release and Indemnify the Employer/Owner and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.

2.0 PRE-BID MEETING

Prospective Bidder requiring any clarification of the bidding documents may notify the Employer via email mentioned in NIT, at least one working day prior to pre-bid meeting. The queries shall be discussed during the pre-bid meeting. Thereafter no further queries/clarifications shall be entertained. The Employer will reply to only those queries which are received before the scheduled time as mentioned above, which are essentially required for submission of bids. The Employer will not reply to the queries which are not considered fit like replies of which can be implied /found in the NIT/Tender Documents or which are not relevant or in contravention to NIT/Tender Documents.

The pre-bid meeting shall be held at the communication address mentioned in NIT. The Addendum/ Corrigendum/Replies to pre bid queries as per Pre bid meeting, shall be uploaded on e-portal & WAPCOS website.

3.0 QUALIFYING CRITERIA: ONLINE TECHNICAL BID SUBMISSION

The intending bidders should only submit bid if he considers himself eligible and will be Technically Qualified, if have all the Documents as mentioned below in Table-1: "Documents for Technical Qualification".

Table-1 shall also be considered as "CHECK LIST" for submission of documents. The bidder will upload all the required documents as per Table-1 on Online Portal and same shall be

submitted Offline.

The “MANDATORY GUIDELINES” for “Uploading of Technical Bids” and “Submission of Offline Bids” are as below:

a) **UPLOADING OF TECHNICAL BIDS**

- 1) Bidder will arrange & prepare the all required documents as per Table no.-1.
- 2) After that Bidder will arrange all these documents serial wise as per order given in Table-1 i.e. S.N: a) to w) below
- 3) After that bidder will put continuous page number (without any break) on each page.
- 4) These page numbers shall be mentioned by bidder in “Check List” against each required documents
- 5) This numbered check list prepared by bidder shall be put on top of arranged numbered documents as per above Sno.2.
- 6) After that Authorized representative of bidder shall Sign & Stamp on each page of these arranged numbered documents.
- 7) The numbered Check List along with required Qualifying Documents arranged as per above Sno-1 to 6 shall be scanned in coloured by bidder and will be uploaded Online for “Technical Evaluation”. If file size is increasing, these documents may be split in parts, however serial / order will be kept as per above Sno. 2 & 3 for ease of “Technical Evaluation”

Note: There is no need to add any other additional documents apart from the documents asked in Table-1, as additional documents will not be considered during Technical Evaluation

b) **SUBMISSION OF OFFLINE BID**

- 8) The proper binded, above Qualifying Documents arranged & page numbered by bidder along with Check List on top (as per above Sno. 1 to 6) with Signed & Stamped on Each Page shall be submitted in one (1) separate sealed envelope clearly labeled as “TECHNICAL BID” for the Work (Write Name of Work as mentioned in NIT) along with Details of Bidders Address, Phone, E-mail on Envelope.
- 9) NOTE:- The above offline documents shall be submitted by bidder on WAPCOS address as per date & time mentioned in NIT, otherwise bids will be rejected.

Note: If bidder does not follow the above Guidelines, then bid may be rejected by WAPCOS

Table -1: Documents for Technical Qualification				
CHECK LIST				
Name of Bidder		M/s.....		
Name of Work:		“Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”		
S. N	Particular of Document	Page Nos. (from – to)	WAPCOS Remarks	
			Yes	No
a)	<p>Authority to Sign the Tender</p> <p>c) In case of proprietary firm, the Proprietor shall sign with full name, current address OR by the authorized person holding Notarized Power of Attorney issued by the Proprietor for signing of business proposal. The Power of Attorney shall <u>be submitted in original and shall be specific to this Bid submission only and mentioning the name of the work/project</u></p> <p>d) In case of a Limited Company or Corporation, the Application shall be signed by an authorized person holding the Power of Attorney for signing of business proposal. A certified copy of the Power of Attorney shall accompany the Application.</p> <p>Note: Power of Attorney duly notarized and on a stamp paper of appropriate value, issued for signing the tender documents, make corrections/ modifications, to interact with the Employer and act as the contact person, shall be submitted along with Technical Bid.</p>			
b)	Scanned copy of EMD Documents.			
c)	Scanned copy of Demand Draft for Tender Fees			
d)	Letter Of Transmittal For Technical Bid			
e)	Letter Of Transmittal For Financial Bid			
f)	Declaration By Bidder			
g)	<p>Bidder shall submit “Financial Information” regarding Turnover, Profit/Loss and Net Worth certificate for Last 5 (five) years ending on the financial year 2024-25 in Form-A duly certified by Statutory Auditor of the firm/company which must carry UDIN (Unique Document Identification Number).</p> <ul style="list-style-type: none"> • Profit / loss (after Tax): The Bidder should not have incurred any loss (profit after tax should be positive) in more than two years during last five years ending 2024-25. • Turnover: Average annual financial turnover of Bidder should be at least 50% of the estimated cost of work during the immediate last 3 consecutive financial years ending 2024-25 • Net Worth: Net worth of the Bidder should be positive during the last financial year 2024-25. The requisite certificates must be certified by statutory auditor of the firm/company. 			

S. N	Particular of Document	Page Nos. (from – to)	WAPCOS Remarks	
			Yes	No
	<ul style="list-style-type: none"> Bidder shall attach Balance Sheet and Profit & loss Statement, duly audited by Statutory Auditor of the firm for last 5 (five) years ending on the financial year 2024-25 in support of Form-A <p>Note: This Certificate will be verified through ICAI Portal using UDIN number mentioned in Form-A</p> <p>Note: There is no need to upload entire voluminous balance sheet. However, summarized balance sheet (Audited) and summarized Profit & Loss Account (Audited) for last 05 years shall be uploaded.</p>			
h)	<p>Solvency Certificate as prescribed in Form-B The bidder contractor should not be insolvent, in receivership, bankrupt or being wound up, not have had their business activities suspended. Bank Solvency Certificate issued from a Nationalized / Scheduled Commercial Bank approved by Reserve Bank of India (RBI) should be at least 40% of the estimated cost of the work. The Certificate should be issued between the publishing of NIT & last date of submission of Bids, including extensions if any and shall be addressed to WAPCOS Limited, 76-C, Institutional Area, Sector-18, Gurugram, Haryana specific to this Bid submission only and mentioning the name of the work/project. The certificate shall be submitted in original and the colour/b & w copy / scanned copy shall not be accepted. The certificate should carry name, designation of the bank official, who has the authority to issue Solvency Certificate</p> <p style="text-align: center;">OR</p> <p>Banker's Certificate as prescribed in Form-B-1 from a Nationalized / Scheduled Commercial Bank of amount equal to 40% of the estimated cost put to tender (ECPT)</p> <p style="text-align: center;">OR</p> <p>Net worth Certificate as prescribed in Form-B-2 of minimum 10% of the estimated cost put to tender issued by Certified Chartered Accountant with UDIN.</p> <p>Note: This Certificates will be verified from the issuing authority by WAPCOS.</p>			
i)	<p>Completed Similar Work Criteria: The bidder should have satisfactorily completed the similar types of works as mentioned below during the last seven years ending previous day of last date of submission of tender.</p> <p>i) One similar completed work costing not less than 80% of the estimated cost of work.</p> <p style="text-align: center;">Or</p>			

S. N	Particular of Document	Page Nos. (from – to)	WAPCOS Remarks	
			Yes	No
	<p>ii) Two similar completed works of order value each not less than 50% of the estimated cost of work.</p> <p>Or</p> <p>iii) Three similar completed works of order value not less than 40% of the estimated cost of work.</p> <p>Note: Similar work shall mean completed any buildings with G+3 RCC framed structure, including Mechanical, Electrical, Plumbing & Firefighting including external development works during last seven years The value of the work done declared is to be without GST / Taxes. For the works, where the Taxes or GST is not clearly defined, the value of works shall be considered as including GST and GST @12% shall be deducted for the works completed up to 31.12.2021 and GST @18% shall be deducted for the works completed after 01.01.2022 to establish the value of work done.</p> <p>The value of executed works shall be brought to the current level by enhancing the actual value of work done at a simple rate of 7% per annum, calculated from the date of completion of last day of the month previous to the one in which applications are invited.</p> <p>The past experience in similar nature of work and also for additional experience should be supported by certificates issued by the Client's organization. In case, the works / certificates are not verified by the issuing authority, WAPCOS reserves the right to not consider for the award of works. For work experience of private sector, the completion certificates shall be supported with copies of corresponding TDS certificates. <u>In case of mismatch in value in TDS certificate & completion certificate, then value mentioned in TDS certificate will be considered during evaluation.</u></p> <p>The bidders submitting experience certificate for the works done in joint venture (JV)/consortium with other firms/companies, their proportionate experience to the extent of its share in the JV/consortium or work done by them shall only be allowed on submitting the valid proof of their share/ work done</p> <p>Note: The completion / experience certificates, along with the supporting documents, shall be got verified from the issuing authority / organizations prior to opening of Financial Bid</p>			
j)	Verification of Solvency, Completion & Performance Certificates.			

S. N	Particular of Document	Page Nos. (from – to)	WAPCOS Remarks	
			Yes	No
	<p>Verification should be done from the official email id of issuing Authorities. The bidder will provide official e-mail, Landline number of the Issuing Authorities in prescribed Form-C with undertaking. Bidder will ensure the email ids and landline are in working condition.</p> <p>If Solvency Certificate, completion, performance certificates are not verified by the issuing authority, then it may not be considered for technical evaluation.</p>			
k)	<p>Bid Capacity as prescribed in Form-D.</p> <p>The bidder should possess the bidding capacity as calculated by the specified formula. The formula generally used is: Available bid capacity = A x 1.5 x N – B, where A = Maximum value of engineering (Civil/ Electrical/ Mechanical as relevant to work being procured) works executed in any one year during the last five years (updated at the current price level), taking into account the completed as well as works in progress. N = Number of years prescribed for completion of the work in question. B = Value (updated at the current price level) of the existing commitments and ongoing works to be completed in the next 'N' years.</p> <p>NOTE: The bidder shall furnish statements showing the value of existing commitments and on-going works as well as stipulated period of completion remaining for each of the works separately.</p> <p>The value of executed works shall be brought to the current level by enhancing the actual value of work done at a simple rate of 7% per annum, calculated from the date of completion of last day of the month previous to the one in which applications are invited.</p>			
l)	<p>EPF Registration: The agency should have EPF registration.</p>			
m)	<p>GST Registration & PAN: Bidder shall submit valid GST registration certificate for the state where work is to be executed and PAN Card. 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 submitting of 1st bill of executed works.</p>			

S. N	Particular of Document	Page Nos. (from – to)	WAPCOS Remarks	
			Yes	No
n)	<p>Indian Registered Company: The bidder should be an Indian Registered Company under Companies Act 1956/ Proprietorship Firm/ Partnership Firm. Joint ventures are not accepted. Copy of Certificate of Incorporation/ Registration/ Partnership Deed Registration or any other relevant document, as applicable, should be submitted along with a copy of address proof.</p> <p>NOTE: Proprietor firms shall submit registration details or shall submit the copy of relevant page of Pass book for the Current Account in the name of Proprietor Firm.</p>			
o)	<p>Structure & Organization: The bidder will submit Name, address, details of the organization, Name(s) of the Owner/partners/promoters and Directors of the firm/ company as prescribed in Form-E.</p>			
p)	<p>Undertaking for Manpower Deployment: The bidder will submit “Undertaking for Manpower Deployment” as prescribed in Form -F</p>			
q)	<p>Non - Conviction Certificate: The bidder will submit the undertaking regarding “Non – Conviction Certificate” as prescribed in Form-G.</p>			
r)	<p>No Deviation Certificate: The bidder will submit ‘No Deviation Certificate’ as prescribed in Form-H.</p>			
s)	<p>Undertaking regarding Blacklisting / Non Debarment The bidder will submit the “Undertaking regarding Blacklisting / Non Debarment” as prescribed in Form-I.</p>			
t)	<p>Undertaking regarding Restriction under Rule 144(XI) of the General Finance Rules (GFRs) 2017 The bidder will submit the “Undertaking regarding Restriction under Rule 144(XI) of the General Finance Rules (GFRs) 2017” as prescribed in Form –J.</p>			
u)	<p>Preference to Make in India: The bidder shall submit undertaking indicating percentage of local content used during the execution of work as per the order of Public Procurement (Preference to Make in India) as prescribed in Form-K duly signed by Statutory Auditor and must carry UDIN (Unique Document Identification Number) Note: This Certificate will be verified through ICAI Portal using UDIN number mentioned in Form-K</p>			
v)	<p>Understanding The Project Site The bidder will submit the “Understanding The Project Site” as prescribed in Form –L.</p>			

S. N	Particular of Document	Page Nos. (from – to)	WAPCOS Remarks	
			Yes	No
w)	Letter and Integrity Pact Letter and Integrity Pact Agreement as prescribed in Form - M			

Date:

(Signature and Stamp of
Authorized signatory)

4.0 CONTENTS OF FINANCIAL BID

The Financial Bid should be uploaded online before last date & time of submission of Tender Document.

Quoted amount by the Bidder shall be firm during the performance of the Contract. Quoted amount by the Bidder with any condition shall not be accepted and same is liable to be rejected. Quoted amount by the Bidder shall include all Materials, Tools & Plant, labour, supervision, profit; other levies together with all general risks, liabilities and obligations set out or implied in the contract, applicable Labour Cess, cost of insurance to this contract, all applicable tax liabilities like Income Tax & Surcharges, etc. Any other taxes /cess as per Government directives shall be deducted from each bill paid to the Contractor, from time to time. GST shall be payable extra as per prevailing rates.

The Contractor shall submit e-invoice / Tax Invoice (as applicable for the bidder's Firms) to WAPCOS showing (i) Basic amount (ii) GST amount separately in each bill. 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 WAPCOS shall be performing all its duties of deduction of 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.

5.0 OPENING OF FINANCIAL BID

The financial bids of the technically qualified bidders shall be opened at the notified date & time. Final selection of the bidder will be made based on the least cost method.

6.0 SIGNING OF THE CONTRACT

The letter of Award will be issued to the successful bidder by WAPCOS which will be duly signed & stamped by the successful bidder as token of unequivocal acceptance and confirmation within 5 working days. Subsequently, successful bidder shall submit the Performance Security of required value within the specified time period. Thereafter, on a date and time mutually agreed upon, the successful Bidder or his authorized representative shall attend the office for signing of the Contract Agreement.

Failure on the part of the successful Bidder to comply with the above requirements will constitute sufficient grounds for the annulment of the Award and forfeiture of the Bid Security.

SECTION – III

FORMS

	LETTER OF TRANSMITTAL FOR TECHNICAL BID
	LETTER OF TRANSMITTAL FOR FINANCIAL BID
	DECLARATION BY BIDDER
FORM-A	FINANCIAL INFORMATION
FORM-B	SOLVENCY CERTIFICATE
FORM- B-1	BANKER'S CERTIFICATE
FORM- B-2	NET WORTH CERTIFICATE FROM CHARTERED ACCOUNTANT
FORM-C	CORRESPONDENCE DETAILS OF ISSUING AUTHORITY
FORM-D	BID CAPACITY
FORM-E	STRUCTURE & ORGANISATION
FORM-F	UNDERTAKING F/OR MANPOWER DEPLOYMENT
FORM-G	NO CONVICTION CERTIFICATE
FORM-H	NO DEVIATION CERTIFICATE
FORM-I	UNDERTAKING REGARDING BLACKLISTING / NON DEBARMENT
FORM-J	UNDERTAKING FOR RESTRICTION UNDER RULE 144(XI) OF GFRs
FORM-K	PREFERENCE TO MAKE IN INDIA
FORM-L	UNDERSTANDING THE PROJECT SITE
FORM - M	LETTER AND INTEGRITY PACT AGREEMENT
FORM – N & N(a)	FORMAT FOR PERFORMANCE OF WORKS AWARDED BY WAPCOS/CERTIFICATION

(TO BE SUBMITTED ON BIDDER ORIGINAL LETTER HEAD)

LETTER OF TRANSMITTAL FOR TECHNICAL BID

To,
Chief Engineer
Centre for Construction Monitoring
1st floor, Plot no. 148,
Sector- 44, Gurugram, Haryana-122003
Email: buildings@wapcos.co.in
Contact No. +91124-4488018

Subject: Submission of Bids for “Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”

Sir,

Having examined the details given in tender document for the above work, I/we hereby submit the relevant information.

- i. I / We acknowledge that the WAPCOS will be relying on the information provided in the Bid and the documents accompanying the Bid & detailed provided in the enclosed “Forms” 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.
- ii. I/we have furnished all information and details necessary for eligibility and have no further pertinent information to supply.
- iii. I/we submit the requisite Solvency Certificate, Completion Certificates, Financial Information’s and authorize WAPCOS Ltd. to approach the Issuing Authority to confirm the correctness thereof. I/we also authorize WAPCOS Ltd. to approach individuals, employers, firms and corporation to verify our competence and general reputation.
- iv. 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.

Date:

**(Signature, Name, Designation
of the Authorized signatory with Seal)**

Place:

(TO BE SUBMITTED ON BIDDER ORIGINAL LETTER HEAD)

LETTER OF TRANSMITTAL FOR FINANCIAL BID

Dated:

To
Chief Engineer
Centre for Construction Monitoring
1st floor, Plot no. 148,
Sector- 44, Gurugram, Haryana-122003
Email: buildings@wapcos.co.in
Contact No. +91124-4488018

Sub: Financial Bid for the “Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”

Dear Sir,

With reference to this Tender Document, 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. The Cost has been quoted by me/us for bid after taking into consideration all the terms and conditions stated in the Tender Document, 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.
2. I / We shall keep this offer valid as period specified in the NIT.
3. I / We hereby submit our FINANCIAL BID and Offer Cost as filled in BoQ excel sheet “BoQ1” for undertaking the aforesaid Project in accordance with the Bidding Documents and the Agreement.

Yours faithfully,

Date:
Place:

**(Signature and Stamp
of the Authorized signatory)**

(TO BE SUBMITTED ON BIDDER ORIGINAL LETTER HEAD)**DECLARATION BY BIDDER**

This is to certify that We, M/s, in submission of this offer confirm that:-

We have inspected the site of work and have made myself/ourselves fully acquainted with local conditions in and around the site of work. We have carefully gone through each & every section of the tender document for the work “Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”.

1. Our tender is offered taking due consideration of all factors mentioned in tender documents.
2. We promise to abide by all the stipulations of the Contract documents and carry out and complete the work to the satisfaction of the Employer/ Principal Employer.
3. We also agree to procure Plants and Machineries at our cost required for the work. We also submit that we have Organizational Structure comprising adequate Technical Personnel in the line of requirement. We also agree to accomplish the job entrusted to us in the stipulated time laid out in document except situations not under our control.
4. We have not made any misleading or false representation in the forms, statement and attachments in proof of the qualification requirements;
5. We do not have records of poor performance such as abandoning the work, not properly completing the Contract, inordinate delays in completion or financial failures etc.
6. We have submitted all the supporting documents and furnished the relevant details as per prescribed format.
7. We are financially sound and have not applied or be under corporate debt restructuring.
8. List of Similar Works satisfying Qualification Criterion as indicated hereinafter, does not include any work which has been carried out by us through a Subcontractor on a back-to-back basis.
9. The Cost has been quoted by me/us for bid after taking into consideration all the terms and conditions stated in the Tender Document, 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.
10. I / We shall keep this offer valid as period specified in the NIT.
11. I / We hereby submit our FINANCIAL BID and Offer Cost for undertaking the aforesaid Project in accordance with the Bidding Documents and the Agreement.
12. In the event of my/ our being declared as the Selected Bidder, I/we agree to enter into a Agreement in accordance with the format of Contract Agreement. We agree not to seek any changes in the aforesaid format of Contract Agreement and agree to abide by the same.

Certificate:

It is certified that the information given in the enclosed 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.

Date:**Place:**

**(Signature and Stamp
of the Authorized signatory)**

[TO BE SUBMITTED ON ORIGINAL LETTER HEAD OF STATUTORY AUDITOR OF BIDDER]**FORM-A: FINANCIAL INFORMATION**

Years	Gross Annual turnover	Profit/Loss (After Tax)	Net worth
2020-2021			
2021-2022			
2022-2023			
2023-2024			
2024-2025			

Above Details are being furnished as per the figures in balance sheet for the last five years in respect of M/s(Name & address of firm of bidder), as submitted by the firm to the Income Tax Department.

Date:**(Signature of Statutory Auditor with Seal)
UDIN No. :****Place:**

[TO BE SUBMITTED ON ORIGINAL LETTER HEAD OF ISSUING BANK]

FORM- B: SOLVENCY CERTIFICATE

Date:.....

To
WAPCOS Limited,
76-C, Institutional Area,
Sector-18, Gurugram, Haryana

This is to certify that .M/s.....(name of bidder & address)..... as a Customer of our Bank Account are/ is respectable and can be treated as good for any engagement up to a Limit of Rs. (Rupees.....) for the work of WAPCOS Tender for **“Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”**.

(Signature for Bank)
Name of Bank Official:.....
Designation:

NOTE:

1. Solvency Certificate should be on letter head of the Bank addressed to WAPCOS Limited, 76-C, Institutional Area, Sector-18, Gurugram, Haryana. The language of this Form may be changed as per the standard format of Bank at the place of “.....”, without affecting the objective.
2. The Certificate should be issued between the publishing of NIT & last date of submission of Bids, including extension of date for bid submission, if any
3. Solvency Certificate shall be **specific to this Bid submission only and mentioning the name of the work/project.**
4. **The certificate shall be submitted in original** and the colour / b&w copy / scanned copy shall not be accepted.
5. The certificate should carry name, designation of the bank official, who has the authority to issue Solvency Certificate
6. This Certificates will be verified from the issuing authority by WAPCOS during process of Technical Evaluation

[TO BE SUBMITTED ON ORIGINAL LETTER HEAD OF ISSUING BANK]

FORM- B-1: BANKER'S CERTIFICATE

Date:.....

To
WAPCOS Limited,
76-C, Institutional Area,
Sector-18, Gurugram, Haryana

This is to certify that to the best of our knowledge and information Shri/Smt/M/S.....having registered address , a customer of our bank, is/are respectable and can be treated as reliable for any engagement up to a limit of Rs..... (Rupees.....).

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

This certificate is issued on the request of Shri/Smt/M/S for tendering purpose.

(Signature for Bank)
Name of Bank Official:.....
Designation:

[TO BE SUBMITTED ON ORIGINAL LETTER HEAD OF STATUTORY AUDITOR OF BIDDER]

FORM- B-2: NET WORTH CERTIFICATE FROM CHARTERED ACCOUNTANT

It is to certify that as per the audited balance sheet and profit & loss account during the financial year, the net worth of Shri/Smt/M/S (Name & Registered Address of individual/firm/company), as on (the date of certificate) is Rs. after considering all liabilities.

Date:

**(Signature of Statutory Auditor with Seal)
UDIN No. :**

Place:

(TO BE SUBMITTED ON BIDDER ORIGINAL LETTER HEAD)**FORM-C: CORRESPONDENCE DETAILS OF ISSUING AUTHORITY****Solvency Certificate/ Completion Certificate / Performance Certificate**

Name of Work: “Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”

A. Solvency/Bankers Certificate

Present address of the Issuing Branch	Official Email Id	Landline no	Other Contact no.

B. Completion Certificate

Present address of the Issuing Authority	Official Email Id	Landline no	Other Contact no.

This is to certify that above information is correct and is gathered from the Issuing Authorities by us for the verification of concerned documents. We understand that if the documents is not verified, then our bid is liable to be rejected.

Date:

Place:

**(Signature and Stamp
of the Authorized signatory)**

(TO BE SUBMITTED ON BIDDER ORIGINAL LETTER HEAD)**FORM- D: BID CAPACITY**

Name of Work: “Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”

Available bid capacity = $A \times 1.5 \times N - B$

Where,

A = Maximum value of engineering (Civil/ Electrical/ Mechanical as relevant to work being procured) works executed in any one year during the last five years (updated at the current price level), taking into account the completed as well as works in progress.

N = Number of years prescribed for completion of the work in question.

B = Value (updated at the current price level) of the existing commitments and ongoing works to be completed in the next 'N' years.

Existing Commitments & on-going works details:

Description of work	Location	Contract no.	Name of address of Client	Value of Contract (Rs. Cr.)	Stipulated period of completion	Value of remaining work (Rs. cr.)	Anticipated date of completion

NOTE:

The bidder shall furnish statements showing the value of existing commitments and on-going works as well as stipulated period of completion remaining for each of the works separately.

The value of executed works shall be brought to the current level by enhancing the actual value of work done at a simple rate of 7% per annum, calculated from the date of completion of last day of the month previous to the one in which applications are invited.

Date:

Place:

**(Signature and Stamp
of the Authorized signatory)**

(TO BE SUBMITTED ON BIDDER ORIGINAL LETTER HEAD)**FORM- E: STRUCTURE & ORGANISATION**

Name of Work: “Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”

S.No.	Particulars	Details
1.	Name & Registered Address of the Bidder	
2.	Address and Email on which correspondence will be made during Tendering & after Award of Work	Name of Person: ...who will sign tender Mobile No. : Email: Address:
3.	Telephone no./Mobile no./Fax no.	
4.	Legal status of the Bidder (attach copies of original document defining the legal status) (a) A Proprietary Firm (b) A Partnership Firm (c) A Limited Company or Corporation (d) A Company registered under company's Act 1956/2013	
5.	Particulars of Registration with various Government Bodies (Attach attested photocopy) Organization/Place of Registration 1. 2. 3.	Registration No. 1. 2. 3.
6.	Names and Titles of Directors with designation as per Legal Status of Company	
7.	Designation of Senior Level Officers authorized to act for this work	
8.	Any other information considered necessary but not included above.	

Date:
Place:

(Signature and Stamp
of the Authorized signatory)

(TO BE SUBMITTED ON BIDDER ORIGINAL LETTER HEAD)

FORM- F: - UNDERTAKING FOR MANPOWER DEPLOYMENT

Name of Work “Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”

This is to certify that We, M/s,
in submission of this offer confirm that:-

- I. Our tender is offered taking due consideration of all factors including site requirements information and conditions stated in the detailed Instructions to Bidders to execute the work up to the standards as laid out in Employer’s Requirements and other sections of Tender Document.
- II. We agree to employ the number of technical staff during the execution of this work as defined in the tender document. We shall deploy additional manpower as deemed fit and required to complete the project within stipulated completion period, without any additional cost to the Employer.
- III. WAPCOS shall have full power and without giving any reason to us, immediately to get removed any representative, staff and workmen or employees on account of misconduct negligence or incompetence or whose continued employment may in his opinion be undesirable. We shall not claim any compensation on this account.
- IV. In case we fail to deploy the technical staff as mentioned in the tender document, we shall be liable to pay recovery for each month of default as mentioned in Tender Documents . The details of Deployment of Technical Staff will be submitted with each Bill duly certified by The Project Manager, WAPCOS. We shall not raise any objection if deduction is made for the same from Running Bills.

Date:
Place:

**(Signature and Stamp
of the Authorized signatory)**

(TO BE SUBMITTED ON BIDDER ORIGINAL LETTER HEAD)

FORM-G: NO-CONVICTION CERTIFICATE

Name of Work: “Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”

This is to certify that _____ (Name of the organization), having registered office at _____ (Address of the registered office) has never been convicted by any Central / State Government Department or Court of law anywhere in the country.

This is also to certify that we are not involved in any form of Corrupt and Fraudulent Practices in past and will never be involved in future.

Date:
Place:

**(Signature and Stamp
of the Authorized signatory)**

(TO BE SUBMITTED ON BIDDER ORIGINAL LETTER HEAD)

FORM-H: NO DEVIATION CERTIFICATE

Name of Work: “Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”

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 Clauses together with other references 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.

Date:
Place:

**(Signature and Stamp
of the Authorized signatory)**

(TO BE SUBMITTED ON BIDDER ORIGINAL LETTER HEAD)

FORM-I: UNDERTAKING REGARDING BLACKLISTING / NON DEBARMENT

Name of Work: “Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”

This is to certify that we have taken the cognizance of Blacklisting Policy of WAPCOS Ltd. 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.

Date:

Place:

**(Signature and Stamp
of the Authorized signatory)**

(TO BE SUBMITTED ON BIDDER ORIGINAL LETTER HEAD)

**FORM-J: UNDERTAKING FOR RULE 144 (XI) IN THE GENERAL FINANCIAL
RULES-2017**

Name of Work: “Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”

I / we(Name of the Firm)
well aware about the Restrictions under RULE 144 (XI) In General Financial Rules (GFR), 2017 on procurement from country which shares a land border with India.. I/ we hereby certify that we are eligible to participate in the tender as per Rule 144 (xi) In The General Financial Rules (GFR), 2017

Date:
Place:

**(Signature and Stamp
of the Authorized signatory)**

[TO BE SUBMITTED ON ORIGINAL LETTER HEAD OF STATUTORY AUDITOR
OF BIDDER]

**FORM-K: PREFERENCE TO MAKE IN INDIA (UNDERTAKING REGARDING
PERCENTAGE OF LOCAL CONTENT)**

Name of Work: “Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”

We, , a Chartered Accountant firm having our registered office address..... hereby state that, we are Statutory Auditor of the Company M/s..... (CIN :).

The Bidder is bidding for the “..... (Name of work)

We have understood the provisions of Public Procurement (Preference to make in India) Local content Policy against WAPCOS Tender NIT No. Date -.....

We on the basis of the bidder’s representation received, hereby confirm that, offer is achieving the minimum local content target as per of above Policy shall be **50%**.

Date:

**(Signature of Statutory Auditor with Seal)
UDIN No. :**

Place:

[TO BE SUBMITTED BY BIDDER ON THEIR ORIGINAL LETTER HEAD]**FORM-L: UNDERSTANDING THE PROJECT SITE**

Name of Work: “Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”

I/we hereby certify that I/we have examined & inspected the site & its surrounding satisfactorily, where the project is to be executed. I/ We are well aware about the following

- Availability of all construction material required for the execution of work.
- Location of the proposed buildings and its allied works on demarcated land and approach/ accessibility to the site.
- Nature of the ground & sub-soil of the site and accessibility to the site.
- Sources from where electric connection is to be taken by contractor at the time of mobilization or other arrangements for electricity is to be made.
- Sources from where suitable water for construction is to be arranged as **ground water at site is not fit for construction work.**
- Site clearance and location of matured trees.
- Awareness about the surrounding local conditions, villagers etc.
- Topography, contouring and any other relevant feature like Pond, nallah etc. of the land where the project is to be executed.
- Location of local electrical supply line and other relevant services
- Hindrances / dispute, if any, which may arise during the execution of work
- We shall make suitable arrangement for supply of water fit for construction works.
- We aware that computerized digital weighing Concrete Batching plant (having provision of printed batch weighing slip) of capacity 10-30 Cum/hour will be installed by us before start of work.

I / We hereby submit our BID considering above all facts gathered during site visit and each & every aspect have been considered in the Quoted Item Rates / price.

Date:
Place:

**(Signature and Stamp
of the Authorized signatory)**

FORM-M
FORMAT FOR LETTER AND INTEGRITY PACT
[To be submitted on Bidder's **Original** Letter Head]

To,
WAPCOS Limited,
76-C, Sector 18,
Institutional Area
Gurgaon, Haryana-122015

Sub: Integrity Pact for

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 at **Enclosure-I**.

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:
Place:

**(Signature and Stamp
of the Authorized signatory)**

Enclosure-I
INTEGRITY AGREEMENT
[To be submitted on Stamp paper of At least Rs.100]

This Integrity Agreement is made on the ____ day of ____ 20____ between WAPCOS Limited, a Company in corporate under Indian Company's Act and having its registered office at 5th floor, Kailash Building, 26, K. G. Marg, New Delhi (hereinafter called "WAPCOS" of the one part) and (Name of Contractor & Address)_____ (hereinafter called "Contractor" of the other part).

Preamble

WHEREAS the WAPCOS has floated the Tender (NIT No.) (hereinafter referred to as "Tender/Bid") and intends to award, under laid down organizational procedure, contract for hereinafter referred to as the "Contract".

AND WHEREAS the WAPCOS 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 Contractor (s) / Bidders

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 WAPCOS

- (1) The WAPCOS commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 - (a) No employee of the WAPCOS, 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 WAPCOS will, during the Tender process, treat all Bidder(s) with equity and reason. The WAPCOS 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 WAPCOS shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- (2) If the WAPCOS 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 WAPCOS 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 WAPCOS'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 WAPCOS 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 WAPCOS under law or the Contract or its established policies and laid down procedures, the WAPCOS 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 WAPCOS'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 WAPCOS after giving 14 days notice to the bidder /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 WAPCOS. Such exclusion may be forever or for a limited period as decided by the WAPCOS.
- (2) Forfeiture of EMD/Performance Guarantee/Security Deposit: If the WAPCOS 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 WAPCOS apart from exercising any legal rights that may have accrued to the WAPCOS, 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 WAPCOS obtains knowledge of conduct of a Bidder/Contractor, or of an employee or a representative or an associate of a Bidder/Contractor which constitutes corruption within the meaning of IPC Act, or if the WAPCOS has substantive suspicion in this regard, the WAPCOS 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 WAPCOS 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 WAPCOS will enter into Pacts on identical terms as this one with all Bidders/Contractors.
- (3) The WAPCOS will disqualify Bidders, who do not submit, the duly signed Pact between the WAPCOS 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

- (1) This Pact begins when both the parties have legally signed it. It expires for the bidder/ Contractor 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.

- (2) 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 WAPCOS, who has floated the Tender.
- (2) Changes and supplements need to be made in writing. Side agreements have not been made.
- (3) If the bidder/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:

SIGNED, SEALED AND DELIVERED

For and on behalf of the Contractor	For and on behalf of the Principal Employer/Employer
NAME _____ Designation	NAME _____ Designation
in the presence of witness:	in the presence of Witness
1 _____	1 _____
2 _____	2 _____

[To be submitted by Bidder on their Original Letter Head]**FORM-N: PERFORMANCE OF WORKS AWARDED BY WAPCOS (COMPLETED & ONGOING)**

Name of Tender: Construction of Teaching Block-3 & Other Infrastructure Works at Chaudhary Bansi Lal University (CBLU), Prem Nagar, Bhiwani (Haryana).

This is to certify that our firm is also engaged for the following completed and ongoing works of WAPCOS as detailed below

SN	Name of Project	Location & state	Date of Award	Award Value

Date:

(Signature, name and designation
of the Authorized signatory)

Place:

Name and seal of Bidder

NOTE:

1. If bidder is not engaged by WAPCOS ever, then bidder will submit above information as NIL and their bid will be considered during evaluation.
2. If bidder is engaged in various works of WAPCOS, then it is mandatory to disclose the same in above format. In this condition, bidder will submit format FORM M(a) regarding performance of the bidder for completed and on-going works duly certified from the each concerned WAPCOS Official for each works. The same will be verified from the concerned WAPCOS Official. If the performance of the bidder is not satisfactory in any parameter mentioned in Form- M(a) and if the LD has been imposed on the project by Client/WAPCOS, then his bid will not be considered for evaluation.
3. It is mandatory for the bidder to disclose all the completed and ongoing projects in WAPCOS and to submit the Form M and M(a). If the Bidder hide any project which is under progress or completed in WAPCOS, then his bid will not be considered for evaluation.

[To be submitted by Bidders on Letter Head of WAPCOS]

**FORM-N (a): FORMAT FOR PERFORMANCE OF WORKS AWARDED BY WAPCOS
DULY CERTIFIED BY WAPCOS OFFICIAL**

Performance Certificate

1.	Name of Work / Project & Location		
2.	Awarded Cost	Rs.	
3.	Date of Start		
4.	Stipulated Date of Completion		
5.	Actual Date of Completion		
6.	Extended Date of Completion		
7.	Physical Progress on the date of publication of Tender		
8.	Performance Parameters:		
	a) Quality of Work	Satisfactory	Not satisfactory
	b) Progress of Work	Satisfactory	Not satisfactory
	c) Liquidity Damages Imposition	Yes	No

**(Signature, Name and Designation
of the Nodal Officer of WAPCOS)**

SECTION – IV

GENERAL CONDITIONS OF CONTRACT

SECTION – IV**GENERAL CONDITIONS TO CONTRACT****1.0 GENERAL RULES AND DIRECTIONS**

General Rules & Directions	1.	The work proposed for execution by contract will be notified in a form of invitation to tender by publication in website. This form will state the work to be carried out, as well as the date for submitting and opening tenders and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the tender, and the amount of the security deposit and Performance Security to be deposited by the successful tenderer and the percentage, if any, to be deducted from bills.
	2.	In the event of the tender being submitted by a Partnership firm, it must be signed separately by each partner thereof or in the event of the absence of any partner, it must be signed on his behalf by a person holding a Power of Attorney authorizing him to do so, such power of attorney to be produced with the tender, and it must disclose that the firm is duly registered under the Indian Partnership Act, 1952.
	3.	Receipts for payment made on account of work, when executed by a firm, must also be signed by all the partners, except where contractors are described in their tender as a firm, in which case the receipts must be signed in the name of the firm by one of the partners, or by some other person having due authority to give effectual receipts for the firm
Applicable for Items Rate tender only	4.	<p>The rate(s) must be quoted in decimal coinage. Total Amount must be quoted in full rupees by ignoring fifty paisa and considering more than fifty paisa as rupee one.</p> <p>In case the lowest tendered amount (worked out on the basis of quoted rate of Individual items) of two or more contractors is same, then such lowest contractors may be asked to submit sealed revised online offer (through limited tender process) quoting rate/ cost of work of each item of the schedule of quantity for all sub sections/sub heads as the case may be, but the revised quoted rate of each item of schedule of quantity for all sub sections/sub heads should not be higher than their respective original rate quoted already at the time of submission of tender. The lowest tender shall be decided on the basis of revised offer.</p> <p>If the revised tendered amount (worked out on the basis of quoted rate of individual items) of two or more contractors received in revised offer is again found to be equal, then the lowest tender, among such contractors, shall be decided by draw of lots in presence of WAPCOS and the lowest contractors those have quoted equal amount of their tenders.</p> <p>In case of any such lowest contractor in his revised offer quotes rate of any item more than their respective original rate quoted already at the time of submission of tender, then such revised offer shall be treated invalid. Such case of revised offer of the lowest contractor or case of refusal to submit revised offer by the lowest contractor shall be treated as withdrawal of his tender before acceptance and 50% of his earnest money shall be forfeited.</p> <p>In case all the lowest contractors those have same tendered amount (as a result of their quoted rate of individual items), refuse to submit revised</p>

		<p>offers, then tenders are to be recalled after forfeiting 50% of EMD of each lowest contractors.</p> <p>Contractor, whose earnest money is forfeited because of non-submission of revised offer, or quoting higher revised rate(s) of any item(s) than their respective original rate quoted already at the time of submission of his bid shall not be allowed to participate in the retendering process of the work</p>
Applicable for Item Rate/ EPC tender only	4A	<p>In case of Item Rate /EPC Tenders, contractor shall fill up the usual printed form, stating at what percentage below/above (in figures as well as in words) the total estimated cost given in Schedule of Quantities , he will be willing to execute the work. The tender submitted shall be treated as invalid if :-</p> <ol style="list-style-type: none"> 1. The contractor does not quote percentage above/below on the total amount of tender or any section/sub head of the tender. 2. The percentage above/below is not quoted in figures & words both on the total amount of tender or any section/sub head of the tender. 3. The percentage quoted above/below is different in figures & words on the total amount of tender or any section/sub head of the tender. <p>Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort including conditional rebates, will be summarily rejected.</p>
	4B	<p>In case the lowest tendered amount (estimated cost + amount worked on the basis of percentage above/below) of two or more contractors is same, such lowest contractors will be asked to submit sealed revised offer in the form of letter mentioning percentage above/ below on estimated cost of tender including all sub sections/sub heads as the case may be, but the revised percentage quoted above/below on tendered amount or on each sub section/ sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers.</p> <p>In case any of such contractor refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and 50% of earnest money shall be forfeited.</p> <p>If the revised tendered amount of two more contractors received in revised offer is again found to be equal , the lowest tender, among such contractors, shall be decided by draw of lots in the presence WAPCOS & the lowest contractors those have quoted equal amount of their tenders.</p> <p>In case all the lowest contractors those have quoted same tendered amount, refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each contractor, whose earnest money is forfeited because of non-submission of revised offer, shall not be allowed to participate in the re-tendering process of the work.</p>
	5.	<p>The designated committee will open tenders in the presence of any intending contractors who may be present at the time, and will enter the amounts of the several tenders in a comparative statement in a suitable form. In the event of a tender being accepted, a receipt for the earnest money shall thereupon be given to the contractor who shall thereupon for the purpose</p>

		of identification sign copies of the specifications and other documents. In the event of a tender being rejected, the earnest money shall thereupon be returned to the contractor remitting the same, without any interest.
	6.	The officer Inviting Tenders shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest or any other tender
	7.	The receipt of an accountant or clerk for any money paid by the contractor will not be considered as any acknowledgment or payment to the officer inviting tender and the contractor shall be responsible for seeing that he procures a receipt signed by the officer inviting tender or a duly authorized Cashier.
Applicable for Items Rate tender only	8.	<p>In the case of Item Rate Tenders, only rates quoted shall be considered. Any tender containing percentage below/above the rates quoted is liable to be rejected. Rates quoted by the contractor in item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall unless otherwise proved be taken as correct. If the amount of an item is not worked out by the contractor or it does not correspond with the rates written either in figures or in words, then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the contractor in figures and in words tally, but the amount is not worked out correctly, the rates quoted by the contractor will unless otherwise proved be taken as correct and not the amount. In event no rate has been quoted for any item(s), leaving space both in figure(s), word(s), and amount blank, it will be presumed that the contractor has included the cost of this/these item(s) in other items and rate for such item(s) will be considered as zero and work will be required to be executed accordingly.</p> <p>However, if a tenderer quotes nil rates against each item in item rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer and earnest money deposited shall be forfeited.</p>
Applicable for Item Rate /EPC tender only	9.	In case of Item Rate / EPC Tenders only percentage quoted shall be considered. Any tender containing item rates is liable to be rejected. Percentage quoted by the contractor in Item Rate tender shall be accurately filled in figures and words, so that there is no discrepancy
Applicable for Item Rate EPC tender only	10.	In Item Rate /EPC Tender, the tenderer shall quote percentage below/above (in figures as well as in words) at which he will be willing to execute the work. He shall also work out the total amount of his offer and the same should be written in figures as well as in words in such a way that no interpolation is possible. In case of figures, the word 'Rs.' should be written before the figure of rupees and word 'P' after the decimal figures, e.g. 'Rs. 2.15P and in case of words, the word 'Rupees' should precede and the word 'Paisa' should be written at the end.
	11.	<p>i. The Contractor, whose tender is accepted, will be required to furnish Performance Security of 5% of the Tendered Value. This Security shall be in the form of cash (in case Security amount is less than Rs. 10,000/-) or Deposit at call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay order of any scheduled bank (in case Security amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in the with the prescribed form.</p>

		ii. 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 5% of the value of each Running & Final bill. 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. The Security amount will also be accepted in cash or in the shape of Government Securities. Fixed Deposit Receipt of a Scheduled Bank or State Bank of India will also be accepted for this purpose provided confirmatory advice is enclosed
	12.	On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in-Charge shall be communicated in writing to the Engineer-in-Charge.
	13.	GST or any other tax applicable in respect of inputs procured by the contractor for this contract shall be payable by the Contractor and Government will not entertain any claim whatsoever in respect of the same.
	14.	The contractor shall give a list of WAPCOS employees related to him.
	15.	The tender for composite work includes, in addition to building work, all other works such as sanitary and water supply installations drainage installation, electrical work, horticulture work, roads and paths etc.

2.0 CONDITIONS OF CONTRACT

Definitions	1.	The “Contract” means the documents forming the tender and acceptance thereof and the formal Agreement executed between the WAPCOS and the Contractor, together with the documents referred to therein including these conditions, the specifications, designs, drawings and instructions issued from time to time by the Engineer-In-Charge and all these documents taken together, shall be deemed to form one contract and shall be complementary to one another.
	2.	<p>In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-</p> <p>i. “Employer” shall mean WAPCOS Limited/ WAPCOS, A Government of India undertaking- Ministry of Jal Shakti, for execution of the Work / Project as mentioned in NIT, having their Registered office at 5th floor, Kailash building, 26-Kasturba Gandhi Marg, New Delhi-110001, India & include Engineer-in-charge, Project Manager, their successors & permitted assigns as well as their authorized officer / representatives. WAPCOS Limited is a company registered under the Indian Company Act 1956, with its registered office at New Delhi or its Administrative officers or its Engineer or other employees authorized to deal with any matter with which these persons are concerned and authorized on its behalf.</p> <p>ii. “Principal Employer/Owner” Chaudhary Bansi Lal University, Bhiwani (CBLU), Ministry of Tribal Affairs, Govt. of India, who has appointed WAPCOS Ltd. as Project Management Consultant for the work mentioned in NIT.</p> <p>iii. “Bidder/Tenderer/Contractor/Supplier” shall mean the individual, firm or company, whether incorporated or not, undertaking the works and shall include the legal personal representative of such individual or the persons composing such firm or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company who are participating in Bidding process and will Execute the project after award of the Works as Contractor/Supplier. They should be an Indian Registered Company under Companies Act 1956/ 2013, Proprietorship Firm/ Partnership Firm</p> <p>iv. “Work or Project” means as mentioned in NIT.</p> <p>v. “Site and location” means the land/or other places on, into or through which work is to be executed under the contract or any adjacent land, path or street through which work is to be executed under the contract or any adjacent land, path or street which may be allotted or used for the purpose of carrying out the contract as mentioned in NIT.</p> <p>vi. “Engineer-in-Charge” means the Officer appointed by WAPCOS who shall direct, supervise and sign the Contract Agreement on behalf of WAPCOS, for the purpose of Contract or his duly authorized representative.</p> <p>vii. “Project Manager, WAPCOS” shall mean the officer appointed by WAPCOS to supervise the works at site on behalf of WAPCOS and Authorized by the Engineer-in charge.</p>

		<p>viii. Excepted Risk are risks due to riots (other than those on account of contractor's employees), war (whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion revolution, insurrection, military or usurped power, any acts of Government, damages from aircraft, acts of God, such as earthquake, lightening and unprecedented floods, and other causes over which the contractor has no control and accepted as such by the Engineer-in-charge or causes solely due to use or occupation by Government of the part of the works in respect of which a certificate of completion has been issued or a cause solely due to Government's faulty design of works.</p> <p>ix. "Market Rate" shall be the rate as checked & verified by the Project Manager, WAPCOS and agreed by the Engineer-in-Charge on the basis of the cost of materials and labour at the site where the work is to be executed plus the percentage mentioned in Special Conditions of Contract to cover, all overheads and profits.</p> <p>x. "Schedule(s)" referred to in these conditions shall mean the relevant schedule(s), standard Schedule of Rates of the government mentioned in Special Conditions of Contract.</p> <p>xi. "Consultant" means any consultant nominated by the WAPCOS</p> <p>xii. "Tendered Amount" means the value as quoted by the Bidder during bidding process excluding GST.</p> <p>xiii. "Tendered Value" means the value of work as stipulated in the letter of award excluding GST.</p> <p>xiv. "Contract Price" means the value of work executed under the Contract including tendered value, cost of extra items, cost of substituted items, cost of deviated items, works executed under the Contract including GST.</p> <p>xv. "Date of Commencement of Work" The date of commencement of work shall be the date of start as specified in Letter of Award or the first date of handing over of the site, whichever is later, in accordance with the phasing if any, as indicated in the tender document.</p> <p>xvi. GST means Goods & Service tax- Central, State and Inter State</p>
Scope and Performance	3.	Where the context so requires, words imparting the singular only also include the plural and vice versa. Any reference to masculine gender shall whenever required include feminine gender and vice versa.
	4.	Headings and Marginal notes to these General Conditions of Contract shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof or of the contract.
	5.	The contractor shall be furnished, free of cost one certified copy of the contract documents except standard specifications, and such other printed and published documents, together with all drawings as may be forming part of the tender papers. None of these documents shall be used for any purpose other than that of this contract.
Works to be carried out	6.	The work to be carried out under the Contract shall, except as otherwise provided in these conditions, include all labour, materials, tools, plants, equipment and transport which may be required in preparation of and for and in the full and entire execution and completion of the works. The descriptions given in the Schedule of Quantities/ Building Components shall, unless otherwise stated, be held to include wastage on materials, carriage and cartage, carrying and return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and

		entire execution and completion of the work as aforesaid in accordance with good practice and recognized principles.
Sufficiency of Tender	7.	The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the cost quoted in the Schedule of Quantities/ Building Components, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.
Discrepancies and Adjustment of Errors	8.	The several documents forming the Contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small scale drawing and figured dimensions in preference to scale and special conditions in preference to General Conditions.
	8.1	In the case of discrepancy between the schedule of Quantities/Building Components, the Specifications and/ or the Drawings, the following order of preference shall be observed:- i. Description of Schedule of Quantities/ Building Components. ii. Particular Specification and Special Condition, if any. iii. Drawings. iv. Standard Specifications. v. Indian Standard Specifications of B.I.S.
	8.2	If there are varying or conflicting provisions made in any one document forming part of the contract, the Engineer-in-charge shall be the deciding authority with regard to the intention of the document and his decision shall be final and binding on the contractor.
	8.3	Any error in description, quantity or rate in Schedule of Quantities or any omission therefrom shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.
Signing of Contract	9.	The letter of Award will be issued to the successful bidder by WAPCOS which will be duly signed & stamped by the successful bidder as token of unequivocal acceptance and confirmation. Subsequently, successful bidder will submit the Performance Security of required value within time specified in Tender document. Thereafter, on a date and time mutually agreed upon, the successful Bidder or his authorized representative shall attend the office for signing of the Contract Agreement. The contract Agreement consisting of complete Tender Document along with all the documents Corrigendum/Amendments if any, Clarifications / Correspondences and any other documents as forming part of the contract. No payment for the work done will be made unless contract is signed by the contractor. Failure on the part of the successful Bidder to comply with the above requirements will constitute sufficient grounds for the annulment of the Award and forfeiture of the Bid Security.

2.0 CLAUSES OF CONTRACT

CLAUSE 1: PERFORMANCE SECURITY (OR PERFORMANCE BANK GUARANTEE)

- i. The contractor shall submit an irrevocable **Performance Security of 5% (Five percent) of the “Tendered Value”** in addition to other deposits mentioned elsewhere in the contract for his proper performance of the contract agreement, (not withstanding and/or without prejudice to any other provisions in the contract) within period specified in Special Conditions of Contract 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 as specified in Special Conditions of Contract on written request of the contractor stating the reason for delays in procuring the Performance Security, to the satisfaction of the Engineer-in-Charge. This Security shall be in the form of Cash (in case Security amount is less than Rs. 10,000/-) or Banker’s Cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay Order of any scheduled bank (in case Security amount is less than Rs. 1,00,000/-) or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the form annexed hereto. In case a fixed deposit receipt of any Bank is furnished by the contractor to the WAPCOS as part of the performance Security 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.
- ii. **The Performance Security shall be initially valid up to period of 60 (sixty) days beyond the date of completion of all contractual obligations of the contractor, including Defect Liability Period (DLP) plus 1 year claim period beyond that.** In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Security extended to cover such enlarged time. The performance Security shall be refunded to the contractor without interest, after he duly performs and completes all obligations under the contract including completion of the Defect Liability Period.
- iii. The Engineer-in-Charge shall make a claim under the performance Security except for amounts to which the WAPCOS is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:
- iv. Failure by the contractor to extend the validity of the Performance Security as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Security.
 - a) 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.
- v. In the event of the contract being determined or rescinded under provision of any of the Clause/Condition of the agreement, the performance Security shall stand forfeited in full and shall be absolutely at the disposal of the WAPCOS.

CLAUSE 1A: SECURITY DEPOSIT / RETENTION MONEY

The Bidder whose tender(s) may be accepted shall permit WAPCOS at the time of making any payment to Contractor for work done under the contract to deduct a sum at the rate of 5% from each running and final bill excluding GST.

The Security Deposit as deducted above shall be released within 60 days of successful completion of Warranty/Defect Liability as Certified by the Engineer-in-Charge or till the final bill has been prepared and passed whichever is later.

CLAUSE 2: COMPENSATION FOR DELAY i.e. LIQUIDITY DAMAGE

If the contractor fails to maintain the required progress or to complete the work and clear the site on or before the contract or extended date of completion, he shall, without prejudice to any other right or remedy available under purview of the Contract on account of such breach, pay compensation for delay i.e. Liquidity Damage, a sum not less than 0.5% (Zero point five percent) of the Tendered Value as

aforesaid for each week and limited to 10% of the Contract Price. If, still work is not completed by the Contractor after deduction of full Liquidity Damage i.e. 10% of the Contract Price, then Performance Security shall be invoked and deducted security money shall be forfeited and project will be terminated. After that the balance work will be executed by Employer on risk and cost (amount received from invocation of Performance Security and Security deposit) of contractor.

In case Liquidity Damage imposed by Principal Employer to the project at any point of time, then full amount of Liquidity Damage (10% of the Contract Price) will be recovered from the up-coming interim bills/ final bill. If the amount of up-coming interim bills/ final bill is less than the amount of Liquidity Damage, then balance amount of Liquidity Damage will be recovered from the Performance Security, Security Deposit and any other financial deposit of Contractor with Employer.

CLAUSE 3: WHEN CONTRACT CAN BE DETERMINED

Subject to other provisions contained in this clause, the Engineer-in-Charge may, without prejudice to his any other rights or remedy against the contractor in respect of any delay, inferior workmanship, any claims for damages and/or any other provisions of this contract or otherwise, and whether the date of completion has or has not elapsed, by notice in writing absolutely determine the contract in any of the following cases:

- i. If the contractor having been given by the Engineer-in-Charge a notice in writing to rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or unworkman like manner shall omit to comply with the requirement of such notice for a period of seven days thereafter.
- ii. If the contractor has, without reasonable cause, suspended the progress of the work or has failed to proceed with the work with due diligence so that in the opinion of the Engineer-in-Charge (which shall be final and binding) he will be unable to secure completion of the work by the date for completion and continues to do so after a notice in writing of seven days from the Engineer-in-Charge.
- iii. If the contractor fails to complete the work or section of work with individual date of completion on or before the stipulated or justified extended date, on or before such date of completion; and the Engineer-in-charge without any prejudice to any other right or remedy under any other provision in the contract has given further reasonable time in a notice given in writing in that behalf as either mutually agreed or in absence of such mutual agreement by his own assessment making such time essence of contract and in the opinion of Engineer-in-Charge the contractor will be unable to complete the same or does not complete the same within the period specified.
- iv. If the contractor persistently neglects to carry out his obligations under the contract and/ or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-in-Charge.
- v. If the contractor shall offer or give or agree to give to any person in WAPCOS service or to any other person on his behalf any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other contract for WAPCOS.
- vi. If the contractor shall enter into a contract with WAPCOS in connection with which commission has been paid or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and the terms of payment thereof have been previously disclosed in writing to the Engineer-in-Charge.
- vii. If the contractor had secured the contract with WAPCOS as a result of wrong tendering or other non-bonafide methods of competitive tendering or commits breach of Integrity Agreement.
- viii. If the contractor being an individual, or if a firm, any partner thereof shall at any time be adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any Insolvency Act for the time being in force or make any conveyance or assignment of his effects or composition or arrangement for

- the benefit of his creditors or purport so to do, or if any application be made under any Insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors.
- ix. If the contractor being a company shall pass a resolution or the court shall make an order that the company shall be wound up or if a receiver or a manager on behalf of a creditor shall be appointed or if circumstances shall arise which entitle the court or the creditor to appoint a receiver or a manager or which entitle the court to make a winding up order.
 - x. If the contractor shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days.
 - xi. If the contractor assigns (excluding part(s) of work assigned to other agency(s) by the contractor as per terms of contract), transfers, sublets (engagement of labour on a piece-work basis or of labour with materials not to be incorporated in the work, shall not be deemed to be subletting) or otherwise parts with or attempts to assign, transfer, sublet or otherwise parts with the entire works or any portion thereof without the prior written approval of the Engineer -in-Charge. When the contractor has made himself liable for action under any of the cases aforesaid, the Engineer-in-Charge on behalf of the WAPCOS shall have powers:
 - (a) To determine the contract as aforesaid so far as performance of work by the Contractor is concerned (of which determination notice in writing to the contractor under the hand of the Engineer-in-Charge shall be conclusive evidence). Upon such determination, Security Deposit already recovered, Security deposit payable and Performance Security under the contract shall be liable to be forfeited and shall be absolutely at the disposal of the Government.
 - (b) After giving notice to the contractor to measure up the work of the contractor and to take such whole, or the balance or part thereof, as shall be un-executed out of his hands and to give it to another contractor to complete the work. The contractor, whose contract is determined as above, shall not be allowed to participate in the tendering process for the balance work including any new items needed to complete the work. In the event of above courses being adopted by the Engineer-in-Charge, the contractor shall have no claim to compensation for any loss sustained by him by reasons of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And in case action is taken under any of the provision aforesaid, the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the Engineer-in-Charge has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified.

Note:

Actions under Clause 2 and 3 are independent.

The compensation under Clause 2 is for loss caused due to delay in performance, whereas, the compensation under Clause 3 is for consequential losses due to non-performance of the Contract. Hence, the Employer is entitled to compensation under Clause 3 and Clause 2 independently. Hence, the Employer is empowered to take action under Clause 2 for levy of compensation depending on liability of Contractor under Clause 2 based on the delay at the stage of Clause 3 action, before determination.

CLAUSE 3A

In case, the work cannot be started due to reasons not within the control of the contractor within 1/6th of the stipulated time for completion of work or one month whichever is higher, either party may close the contract. In case contractor wants to close the contract, he shall give notice to the WAPCOS stating the failure on the part of WAPCOS. In such eventuality, the Performance Security of the contractor shall be refunded within following time limits :

- | | | |
|----|--|---------|
| a) | Tendered value of work is up to Rs. 1.0 Crore | 15 days |
| b) | If the Tendered value of work is more than Rs.1.0 crore and up to Rs. 10 Crore | 21 days |
| c) | If the Tendered value of work exceeds Rs. 10 Crore : | 30 days |

Neither party shall claim any compensation for such eventuality. This clause is not applicable for any breach of the contract by either party

CLAUSE 4: CONTRACTOR LIABLE TO PAY COMPENSATION EVEN IF ACTION NOT TAKEN UNDER CLAUSE 3

In any case in which any of the powers conferred upon the Engineer-in-Charge by Clause-3 thereof, shall have become exercisable and the same are not exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the contractor and the liability of the contractor for compensation shall remain unaffected. In the event of the Engineer-in-Charge putting in force all or any of the powers vested in him under the preceding clause he may, if he so desires after giving a notice in writing to the contractor, take possession of (or at the sole discretion of the Engineer-in-Charge which shall be final and binding on the contractor) use as on hire (the amount of the hire money being also in the final determination of the Engineer-in-Charge) all or any tools, plant, materials and stores, in or upon the works, or the site thereof belonging to the contractor, or procured by the contractor and intended to be used for the execution of the work/or any part thereof, paying or allowing for the same in account at the contract rates, or, in the case of these not being applicable, at current market rates to be certified by the Engineer-in-Charge, whose certificate thereof shall be final, and binding on the contractor, clerk of the works, foreman or other authorized agent to remove such tools, plant, materials, or stores from the premises (within a time to be specified in such notice) in the event of the contractor failing to comply with any such requisition, the Engineer-in-Charge may remove them at the contractor's expense or sell them by auction or private sale on account of the contractor and his risk in all respects and the certificate of the Engineer-in-Charge as to the expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the contractor.

CLAUSE 5: TIME AND EXTENSION FOR DELAY

The time allowed for execution of the Works as specified in Contract or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the works shall commence from such time period as mentioned in Contract or from the date of handing over of the site whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid, WAPCOS shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the performance Security absolutely.

- 5.1** As soon as possible but within 7 (seven) days from the date of commencement of work, the Contractor shall submit a Time and Progress Chart for each milestone and get it approved by the Engineer-in-Charge. The Chart shall be prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades of sections of the work and may be amended as necessary by agreement between the Employer and the Contractor within the limitations of time imposed in the Contract documents, and further to ensure good progress during the execution of the work, the Contractor shall in all cases in which the time allowed for any work, exceeds 15 days (save for special jobs for which a separate programme has been agreed upon) complete the work as per scheduled date of completion.

In case of non submission of construction programme by the contractor, the program approved by the Engineer-in-Charge shall be deemed to be final.

The approval by the Engineer-in-Charge of such programme shall not relieve the contractor of any of the obligations under the contract.

The contractor shall submit the Time and Progress Chart and Progress Report using the mutually agreed software or in other format decided by Engineer-in-Charge for the work done during

previous month to the Engineer-in-charge on or before 5th day of each month failing which a recovery of Rs. 2500/- per day basis in case of delay in submission of Time and Progress Chart and Rs. 1000/- per day in case of delay in submission of the monthly progress report.

5.2 If the work(s) be delayed by:-

- (i) force majeure, or
- (ii) abnormally bad weather, or
- (iii) serious loss or damage by fire, or
- (iv) civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or
- (v) delay on the part of other contractors or tradesmen engaged by Engineer-in- Charge in executing work not forming part of the Contract, or
- (vi) any other cause which, in the absolute discretion of the Engineer-in-Charge is beyond the Contractor's control.

then upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the authority, but shall nevertheless use constantly his best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Employer/ Principal Employer to proceed with the works. The Employer will give the "Extension of Time" only after the approval of the same from Principal Employer.

If, Employer/Principal Employer are not satisfied with the reasons stated by the contractor for delay then, Provision Extension of Time shall be granted to complete the balance works and keep the contract alive. In the period of Provisional Extension of time, Employer shall have the right to impose Liquidity damage as per above Clause 2, if Principal Employer impose the Liquidity Damage to the project at any point of time.

During the granted provisional extension of time, 10% amount of bill amount excluding GST, shall be withheld from each running bill as per the discretion of the Engineer-in-charge. The withheld amount will be accountable to Liquidity damage as per clause-2 and shall only be released to the contractor, if work is completed within the given Provisional Extension of time and Principal Employer didn't impose the Liquidity Damage to the project.

The contractor shall have no claim of damages for extension of time granted or rescheduling of milestone/s for above events listed.

5.3 In case the work is hindered by the Employer/ Principal Employer for any reason / event, the Engineer-in-Charge, if justified, give a fair and reasonable extension of time and reschedule the mile stones for completion of work. Such extension of time or rescheduling of milestone/s shall be without prejudice to any other right or remedy of the parties in contract or in law; provided further that for concurrent delays under this sub-clause and sub-clause 5.2 to the extent the delay is covered under sub-clause 5.2 the Contractor shall be entitled to only extension of time and no compensation/damages.

5.4 Request for rescheduling of Milestones and extension of time, to be eligible for consideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay on the prescribed form to the Engineer-in-Charge. The Contractor may also, if practicable, indicate in such a request the period for which extension is desired. The Contractor shall indicate in such a request the period by which rescheduling of milestone/s or extension of time is desired. With every request for rescheduling of milestones, or if at any time the actual progress of work falls behind the approved programme by more than 10% of the stipulated period of completion of contract, the Contractor shall produce a revised programme which shall include all details of pending drawings and decisions required to complete the contract and also the target dates by which these details should be available without causing any delay in execution

of the work. An amount as deemed appropriate by the Engineer-in-Charge shall be deducted on per day basis in case of delay in submission of the revised programme.

5.4.1 In any such case the Engineer-in-Charge may give a fair and reasonable extension of time for completion of work or reschedule the mile stones. Engineer-in-Charge shall finalize/reschedule a particular mile stone before taking an action against subsequent mile stone. Such extension or rescheduling of the milestones shall be communicated to the Contractor by the Engineer-in-Charge in writing, within 21 days of the date of receipt of such request from the Contractor in prescribed form. In event of non-application by the Contractor for extension of time Engineer-in-Charge after affording opportunity to the Contractor, may give, supported with a programme, a fair and reasonable extension within a reasonable period of occurrence of the event.

5.5 In case the work is delayed by any reasons, in the opinion of the Engineer-in-Charge, by the Contractor for reasons beyond the events mentioned in sub clause 5.2 and beyond the justified extended date; without prejudice to right to take action under Clause 3, the Engineer-in-Charge may grant extension of time required for completion of work without rescheduling of milestones. The Contractor shall be liable for levy of compensation for delay for such extension of time.

CLAUSE 6 : COMPUTERIZED MEASUREMENT BOOK

Project Manager, WAPCOS shall, except as otherwise provided, ascertain and determine by measurement the value of work done in accordance with the contract.

All measurements of all items having financial value shall be entered by the contractor and compiled in the shape of the Computerized Measurement Book having pages of A-4 size as per the format of the WAPCOS so that a complete record is obtained of all the items of works performed under the contract. All such measurements and levels recorded by the contractor or his authorized representative from time to time, during the progress of the work, shall be got checked by the contractor from the Project Manager, WAPCOS as per interval or program fixed in consultation with Engineer-in-Charge or his authorized representative. After the necessary corrections made by the Project Manager, WAPCOS, the measurement sheets shall be returned to the contractor for incorporating the corrections and for resubmission to the Project Manager, WAPCOS, for the dated signatures by the Project Manager, WAPCOS, and the contractor or their representatives in token of their acceptance.

Whenever bill is due for payment, the contractor would initially submit draft computerized measurement sheets and these measurements would be got checked/test checked from the Project Manager, WAPCOS. The contractor will, thereafter, incorporate such changes as may be done during these checks/test checks in his draft computerized measurements, and submit to the WAPCOS a computerized measurement book, duly bound, and with its pages machine numbered. The Project Manager, WAPCOS, would thereafter check this MB, and record the necessary certificates for their checks/test checks.

The final, fair, computerized measurement book given by the contractor, duly bound, with its pages machine numbered, should be 100% correct, and no cutting or over-writing in the measurements would thereafter be allowed. If at all any error is noticed, the contractor shall have to submit a fresh computerized MB with its pages duly machine numbered and bound.

The contractor shall also submit to the WAPCOS separately his computerized Abstract of Cost and the bill based on these measurements, duly bound, and its pages machine numbered. Thereafter, this bill will be processed by the Project Manager, WAPCOS.

The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for checking of measurements/levels by the Project Manager, WAPCOS.

Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in the specifications notwithstanding any provision in the relevant Standard Method of measurement or any general or local custom. In the case of items which are not covered by specifications, measurements shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available then a mutually agreed method shall be followed.

The contractor shall give not less than seven days' notice to the Project Manager, WAPCOS in charge of the work before covering up or otherwise placing beyond the reach of checking and/or test checking the measurement of any work in order that the same may be checked and/or test checked and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of checking and/or test checking measurement and shall not cover up and place beyond reach of measurement any work without consent in writing of the Project Manager, WAPCOS in charge of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of checking and/or test checking measurements without such notice having been given or Project Manager, WAPCOS consent being obtained in writing the same shall be uncovered at the Contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.

Engineer-in-Charge may cause either themselves or through another officer of the WAPCOS to check the measurements recorded by contractor and all provisions stipulated herein above shall be applicable to such checking of measurements or levels.

It is also a term of this contract that checking and/or test checking the measurements of any item of work in the measurement book and/or its payment in the interim, on account of final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period.

CLAUSE 7: PAYMENT ON INTERMEDIATE CERTIFICATE TO BE REGARD AS ADVANCE

The interim or running account bill shall be submitted by the Contractor for work executed on the basis of recorded measurements on the format of the Employer on or before the date of every month fixed by Project Manager of WAPCOS. Contractor shall submit the bill with all requisite certificates/documents. Project Manager of WAPCOS shall arrange to have the bill verified by taking or causing to be taken where necessary, the requisite measurement of the work within 15 working days. Observations if any shall be conveyed by the Project Manager, WAPCOS to the Contractor within 25 working days. Contractor shall resubmit the bill to Project Manager, WAPCOS after compliance of observations and duly signed by the Project Manager of WAPCOS for further processing.

Payment on account of amount admissible shall be made by the Engineer-in-Charge certifying the sum to which the Contractor is considered entitled by way of interim payment at such rates as decided by Engineer-in-Charge. The amount shall be paid by 45 working days after the day of submission of mutually signed corrected bill between Contractor Representative and Project Manager, WAPCOS or his representative to WAPCOS HQ, Gurugram along with required documents as per Contractual Provisions OR 45 days after receive of the payments from Principal Employer whichever is later. If bill is found in-correct (calculation error, discrepancies in previous and current bill quantities, any other mistake/ error, non-matching of Measurement Book with Abstract, missing of required Documents, etc.), then bill will be returned to the contractor for re-submission. In this case said 45 working days will be counted from the date of re-submission of corrected bill to WAPCOS HQ, Gurugram.

All such interim payments shall be regarded as payment by way of advances against final payment only and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re-erected. Any certificate given by the Engineer-in-Charge relating to the work done or materials delivered forming part of such payment, may be modified or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evidence that any work or materials to which it relates is/are in accordance with the contract and specifications. Any such interim payment, or any part thereof shall not in any respect conclude, determine or affect in any way powers of the Engineer-in-Charge under the contract or any of such payments be treated as final settlement and adjustment of accounts or in any way vary or affect the contract.

Pending consideration of extension of date of completion, interim payments shall continue to be made as herein provided without prejudice to the right of the WAPCOS to take action under the terms of this contract for delay in the completion of work, if the extension of date of completion is not granted by the competent authority.

It is clearly agreed and understood by the Contractor that notwithstanding anything to the contrary that may be stated in the agreement between Employer and the Contractor; the Contractor shall become entitled to payment only after Employer has received the corresponding payment(s) from the Principal Employer for the work done by the Contractor. Any delay in the release of payment by the Principal Employer to Employer leading to a delay in the release the corresponding payment by Employer to the Contractor shall not entitle the Contractor to any compensation/interest from Employer.

All payments shall be released by way of e-transfer through RTGS in India directly at their Bank account by Employer.

Clause 7A

No Running Account Bill shall be paid for the work till the applicable labour licenses, registration with EPFO, ESIC / BOCW Welfare Board, whatever applicable are submitted by the Contractor to the Project Manager, WAPCOS.

CLAUSE 8: COMPLETION CERTIFICATE AND COMPLETION PLANS

Within ten days of the completion of the work, the contractor shall give notice of such completion to the Engineer-in-Charge and within thirty days of the receipt of such notice, the Engineer-in-Charge or his representative shall inspect the work with Project Manager, WAPCOS and if there is no defect in the work, shall furnish the contractor with a final certificate of completion, otherwise a provisional certificate of physical completion indicating defects (a) to be rectified by the contractor and/or (b) for which payment will be made at reduced rates, shall be issued. But no final certificate of completion shall be issued, nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall be executed all scaffolding, surplus materials, rubbish and all huts and sanitary arrangements required for his/their work people on the site in connection with the execution of the works as shall have been erected or constructed by the contractor(s) and cleaned off the dirt from all wood work, doors, windows, walls, floor or other parts of the building, in, upon, or about which the work is to be executed or of which he may have had possession for the purpose of the execution; thereof, and not until the work shall have been measured by the Engineer-in-Charge. If the contractor shall fail to comply with the requirements of this Clause as to removal of scaffolding, surplus materials and rubbish and all huts and sanitary arrangements as aforesaid and cleaning off dirt on or before the date fixed for the completion of work, the Engineer-in-Charge may at the expense of the contractor remove such scaffolding, surplus materials and rubbish etc., and dispose of the same as he thinks fit and clean off such

dirt as aforesaid, and the contractor shall have no claim in respect of scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof.

CLAUSE 8A : COMPLETION PLANS TO BE SUBMITTED BY THE CONTRACTOR

The contractor shall submit completion plans for Internal and External Civil, Electrical and Mechanical Services within thirty days of the completion of the work, provided that the service plans having been issued for execution, unless the contractor, by virtue of any other provision in the contract, is required to prepare such plans. The "As Built" Drawings and completion report shall be submitted by the Contractor in 3 sets.

CLAUSE 9: PAYMENT OF FINAL BILL

The final bill shall be submitted by the Contractor in the same manner as specified in interim bills within three months of physical completion of the work or within one month of the date of the final certificate of completion furnished by the Engineer-in- Charge whichever is earlier. No further claims shall be made by the Contractor after submission of the final bill and these shall be deemed to have been waived and extinguished.

CLAUSE 10A: MATERIALS TO BE PROVIDED BY CONTRACTOR

The contractor shall, at his own expense, provide all materials, required for the works.

The contractor shall, at his own expense and without delay, supply to the Project Manager, WAPCOS samples of materials to be used on the work and shall get these approved in advance. All such materials to be provided by the Contractor shall be in conformity with the specifications laid down or referred to in the contract. The contractor shall, if requested by the Engineer-in-Charge furnish proof, to the satisfaction of the Engineer-in-Charge that the materials so comply. The Project Manager, WAPCOS shall within thirty days of supply of samples or within such further period as he may require intimate to the Contractor in writing whether samples are approved by him or not. If samples are not approved, the Contractor shall forthwith arrange to supply to the Project Manager, WAPCOS for his approval, fresh samples complying with the specifications laid down in the contract. When materials are required to be tested in accordance with specifications, approval of the Engineer-in-Charge/ Principal Employer shall be issued after the test results are received.

The Contractor shall at his risk and cost submit the samples of materials to be tested or analyzed and shall not make use of or incorporate in the work any materials represented by the samples until the required tests or analysis have been made and materials finally accepted by the Engineer-in-Charge/ Principal Employer. The Contractor shall not be eligible for any claim or compensation either arising out of any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of materials.

The contractor shall, at his risk and cost, make all arrangements and shall provide all facilities as the Project Manager, WAPCOS may require for collecting, and preparing the required number of samples for such tests at such time and to such place or places as may be directed by the Project Manager, WAPCOS and bear all charges and cost of testing unless specifically provided for otherwise elsewhere in the contract or specifications. The Engineer-in- Charge or his authorized representative shall at all times have access to the works and to all workshops and places where work is being prepared or from where materials, manufactured articles or machinery are being obtained for the works and the contractor shall afford every facility and every assistance in obtaining the right to such access.

The Engineer-in-Charge or his authorized representative shall have full powers to require the removal from the premises of all materials which in his opinion are not in accordance with the specifications and in case of default, the Engineer-in-Charge shall be at liberty to employ at the expense of the contractor, other persons to remove the same without being answerable or accountable for any loss or damage that may happen or arise to such materials. The Engineer-in-Charge or his authorized representative shall also have full powers to require other proper materials to be substituted thereof and in case of default, the Engineer-in-Charge or his authorized representative may cause the same to be supplied and all costs which may attend such removal and substitution shall be borne by the Contractor.

The Contractor shall at his own expense, provide a material testing lab at the site for conducting routine field tests. The lab shall be equipped at least with the testing equipment as specified in Contract.

If the Engineer-in-Charge or his authorized representative instructs the Contractors to carry out a test not specified in the Specification to check whether any work has a Defect. Such tests are to be carried out by the Contractor by deploying agencies and paying all the cost for such tests.

CLAUSE 10B :

(i) SECURED ADVANCE ON NON-PERISHABLE MATERIALS AND RECOVERY

The contractor, on signing an indenture in the form to be shall be entitled to be paid during the progress of the execution of the work up to 75% of the assessed value of any materials which are in the opinion of the Project Manager, WAPCOS non-perishable, non-fragile and non-combustible and are in accordance with the contract and which have been brought on the site in connection therewith and are adequately stored and/or protected against damage by weather or other causes but which have not at the time of advance been incorporated in the works. When materials on account of which an advance has been made under this sub-clause are incorporated in the work, the amount of such advance shall be recovered/ deducted from the next payment made under any of the clause or clauses of this contract.

Such secured advance shall also be payable on other items of perishable nature, fragile and combustible with the approval of the Engineer-in-Charge provided the contractor provides a comprehensive insurance cover for the full cost of such materials. The decision of the Engineer-in-Charge shall be final and binding on the contractor in this matter. No secured advance, shall however, be paid on high-risk materials such as ordinary glass, sand, petrol, diesel etc.

The secure Advance shall be recovered as per consumption of material from the contractor which secure advance is given to the contractor. If any value of secure advance is remaining to recover, then it will be fully recovered after completion of 80% work of the Tendered Value.

(ii) MOBILISATION ADVANCE

On request of contractor, the Employer shall make interest bearing advance payment for mobilization of labour, stores and workshops including camps, labour sheds, machineries and construction plant, etc. for preliminary and enabling Works, after the signing of Contract agreement to the extent of 10 (ten) per cent of the Tendered Value of an unconditional BG. Such BG shall remain effective until the advance payment has been fully repaid.

The aforesaid advance of 10 (ten) per cent shall be paid in two instalments, each of five per cent. The first one shall be paid on commencement of the work and on submission of unconditional BG in respect of the advance.

The second instalment shall be paid on certification by the engineer in charge for achieving a financial progress of 10 (ten) per cent of the Tendered Value, as also provision of a BG by the contractor for this part of the advance. Mobilisation expenditure mentioned herein shall not

include the margin money and bank commission, and so on, paid by the contractor for procurement of BGs against performance security and mobilisation advance.

The request of contractor for aforesaid mobilization advance will be considered within 3 (three) months from the commencement of work.

(iii) INTEREST & RECOVERY OF MOBILISATION ADVANCE

The mobilization advance bears simple interest at the rate 10 % and shall be calculated from the date of payment to the date of recovery (365 days in a year) both days inclusive, on the outstanding amount of advance.

Before any installment of advance is released, the contractor shall execute a one single Bank Guarantee Bond from Scheduled Bank for the amount equal to 110% of the amount of mobilization advance and valid up to stipulated period of completion as mentioned in NIT. This (Bank Guarantee from Scheduled Bank for the amount equal to 110% of the balance amount of advance) shall be kept renewed from time to time to cover the balance amount and likely period of complete recovery.

Recovery of such sums advanced shall be made by the deduction from the contractor's bills commencing after first 10% of the gross value of the work is executed and paid, on pro-rata percentage basis to the gross value of the work billed beyond 10% in such a way that the entire advance is recovered by the time 80% of the gross value of the contract is executed and paid, together with interest due on the entire outstanding amount up to the date of recovery of the installment. Along with aforesaid condition of recovery of mobilization advance, if contractor wants to recover more or full mobilization advance from the interim bills, then accordingly mobilization advance may be recovered by Employer. The said request will be given by the contractor along with the interim bill to the Engineer-In-Charge. The Bank Guarantee will be returned after recovery of the mobilization advance against particular Bank guarantee.

CLAUSE 10C : PAYMENT ON ACCOUNT OF INCREASE IN PRICE / WAGES DUE TO STATUTORY ORDER – NOT APPLICABLE

CLAUSE 10CA : PAYMENT DUE TO VARIATION IN PRICES OF MATERIALS AFTER RECEIPT OF TENDER – NOT APPLICABLE

CLAUSE 10CC: PAYMENT DUE TO INCREASE / DECREASE IN PRICES/ WAGES (EXCLUDING MATERIALS COVERED UNDER CLAUSE 10 CA) AFTER RECEIPT OF TENDER FOR WORKS – NOT APPLICABLE

CLAUSE 10D : DISMANTLED MATERIAL PROPERTY

The contractor shall treat all materials obtained during dismantling of a structure, excavation of the site for a work, etc. as WAPCOS/Government/Principal Employer 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 or his authorized representative.

CLAUSE 11 : WORKS TO BE EXECUTED IN ACCORDANCE WITH SPECIFICATIONS, DRAWINGS, ORDERS ETC.

The Contractor shall execute the work as per the sequence submitted by Contractor and approved by Engineer-in-Charge from time to time so that all other items of the work to be executed by other agencies are completed progressively along with the main work.

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. The contractor shall also conform exactly, fully and faithfully to the design, drawings and instructions in writing in respect of the work 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 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 Engineer-In-Charge without any extra expenditure to Employer.

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.

CLAUSE 12 : DEVIATIONS / VARIATIONS EXTENT AND PRICING

The Engineer-in-Charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-in-Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.

12.1 The time for completion of the works shall, in the event of any deviations resulting in additional cost over the Tendered Value sum being ordered, be extended, if requested by the contractor, as follows:

- (i) In the proportion which the additional cost of the altered, additional or substituted work, bears to the original Tendered Value plus
- (ii) 25% of the time calculated in (i) above or such further additional time as may be considered reasonable by the Engineer-in-Charge.

12.2 Deviations, Extra Items, Substituted item and Pricing

- (a) **In the case of extra item(s)** (items that are completely new, and are in addition to the items contained in the contract), the contractor may within fifteen days of receipt of order or occurrence of the item(s) claim rates, supported by proper analysis, for the work and the Project Manager, WAPCOS shall within prescribed time limit of the receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined after approval of Engineer-in -charge.
- (b) **In the case of substituted items** (items that are taken up with partial substitution or in lieu of items of work in the contract), the rate for the agreement item (to be substituted) and substituted item shall also be determined in the manner as mentioned in the following para.
- If the market rate for the substituted item so determined is more than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so increased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).
 - If the market rate for the substituted item so determined is less than the market rate of the agreement item (to be substituted), the rate payable to the contractor for the substituted item shall be the rate for the agreement item (to be substituted) so decreased to the extent of the difference between the market rates of substituted item and the agreement item (to be substituted).
- (c) **In the case of contract items, substituted items, contract cum substituted items, which exceed the limits laid down in Special Conditions of Contract**, the contractor may within fifteen days of receipt of order or occurrence of the excess, claim revision of the rates, supported by proper analysis for the work in excess of the above mentioned limits, provided that if the rates so claimed are in excess of the rates specified in the schedule of quantities, the Project Manager, WAPCOS shall within prescribed time limit of receipt of the claims supported by analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined after approval of Engineer-in -charge.

The prescribed time limit for finalizing rates for Extra Item(s), Substitute Item(s) and Deviated Quantities of contract items is within 45 days after submission of proposal by the contractor without observation of the Engineer-in-Charge or his authorized representative.

12.3 Any operation incidental to or necessarily has to be in contemplation of tenderer while filing tender, or necessary for proper execution of the item included in the Schedule of quantities or in the schedule of rates mentioned above, whether or not, specifically indicated in the description of the item and the relevant specifications, shall be deemed to be included in the rates quoted by the tenderer or the rate given in the said schedule of rates, as the case may be. Nothing extra shall be admissible for such operations.

CLAUSE 13: FORECLOSURE 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 and, in addition, a reasonable amount as certified by the Engineer-in-Charge for the items hereunder mentioned which could not be utilized on the work to the full extent in view of the foreclosure;

- (i) Any expenditure incurred on preliminary site work, e.g. temporary access roads, temporary labour huts, staff quarters and site office; storage accommodation and water storage tanks.
- (ii) Employer shall have the option to take over contractor's materials or any part thereof either brought to site or of which the contractor is legally bound to accept delivery from suppliers (for incorporation in or incidental to the work). For materials taken over or to be taken over by WAPCOS, cost of such materials as detailed by Engineer-in-Charge shall be paid. The cost shall, however, take into account purchase price, cost of transportation and deterioration or damage which may have been caused to materials whilst in the custody of the contractor.
- (iii) Reasonable compensation for transfer of T & P from site to contractor's permanent stores or to his other works, whichever is less. If T & P are not transported to either of the said places, no cost of transportation shall be payable.

The contractor shall, if required by the Engineer-in-Charge, furnish to him, books of account, wage books, time sheets and other relevant documents and evidence as may be necessary to enable him to certify the reasonable amount payable under this condition.

The reasonable amount of items on (i), (iv) and (v) above shall not be in excess of 2% of the cost of the work remaining incomplete on the date of closure, i.e. total stipulated cost of the work as per accepted tender less the cost of work actually executed under the contract and less the cost of contractor's materials at site taken over by the WAPCOS as per item (ii) above. Provided always that against any payments due to the contractor on this account or otherwise, the Engineer-in-Charge shall be entitled to recover or be credited with any outstanding balances due from the contractor for advance paid in respect of any tool, plants and materials and any other sums which at the date of termination were recoverable by the WAPCOS from the contractor under the terms of the contract.

In the event of action being taken under Clause 13 to reduce the scope of work, the Contractor may furnish fresh Performance Security on the same conditions, in the same manner and at the same rate for the balance tendered value and initially valid up to the extended date of completion or stipulated date of completion if no extension has been granted plus minimum 60 days beyond that. Wherever such a fresh Performance Security is furnished by the Contractor the Engineer-in-Charge may return the previous Performance Security.

CLAUSE 14 : 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.
- (iii) 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 Price.

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) / rectification works during Defect Liability Period 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.

CLAUSE 15 : SUSPENSION OF WORK

- (i) The contractor shall, on receipt of the order in writing of the Engineer-in-Charge, (whose decision shall be final and binding on the contractor) suspend the progress of the works or any part thereof for such time and in such manner as the Engineer-in-Charge may consider necessary so as not to cause any damage or injury to the work already done or endanger the safety thereof for any of the following reasons:
 - (a) on account of any default on the part of the contractor or;
 - (b) for proper execution of the works or part thereof for reasons other than the default of the contractor; or
 - (c) for safety of the works or part thereof.

The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Engineer-in-Charge.

- (ii) If the suspension is ordered for reasons (b) and (c) in sub-para (i) above:

- (a) the contractor shall be entitled to an extension of time equal to the period of every such suspension PLUS 25%, for completion of the item or group of items of work for which a separate period of completion is specified in the contract and of which the suspended work forms a part, and;
- (b) If the total period of all such suspensions in respect of an item or group of items or work for which a separate period of completion is specified in the contract exceeds thirty days, the contractor shall, in addition, be entitled to such compensation as the Engineer-in-Charge may consider reasonable in respect of salaries and/or wages paid by the contractor to his employees and labour at site, remaining idle during the period of suspension, adding thereto 2% to cover indirect expenses of the contractor provided the contractor submits his claim supported by details to the Engineer-in-Charge within fifteen days of the expiry of the period of 30 days.
- (iii) If the works or part thereof is suspended on the orders of the Engineer-in-Charge for more than three months at a time, except when suspension is ordered for reason (a) in subpara (i) above, the contractor may after receipt of such order serve a written notice on the Engineer-in-Charge requiring permission within fifteen days from receipt by the Engineer-in-Charge of the said notice, to proceed with the work or part thereof in regard to which progress has been suspended and if such permission is not granted within that time, the contractor, if he intends to treat the suspension, where it affects only a part of the works as an omission of such part by WAPCOS or where it affects whole of the works, as an abandonment of the works by WAPCOS, shall within ten days of expiry of such period of 15 days give notice in writing of his intention to the Engineer-in-Charge. In the event of the contractor treating the suspension as an abandonment of the contract by WAPCOS, he shall have no claim to payment of any compensation on account of any profit or advantage which he might have derived from the execution of the work in full but which he could not derive in consequence of the abandonment. He shall, however, be entitled to such compensation, as the Engineer-in-Charge may consider reasonable, in respect of salaries and/or wages paid by him to his employees and labour at site, remaining idle in consequence adding to the total thereof 2% to cover indirect expenses of the contractor provided the contractor submits his claim supported by details to the Engineer-in-Charge within 30 days of the expiry of the period of 3 months.

CLAUSE 16 : 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 Project Manager, WAPCOS 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 incharge of the work or to the Engineer-in-charge of Quality Assurance or Project Manager, WAPCOS 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 unskillful 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 Lac 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 Special 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.

CLAUSE 17: CONTRACTOR LIABLE FOR DAMAGES, DEFECTS DURING DEFECT LIABILITY PERIOD

The Warranty (on site)/Defect Liability Period shall be **24 (Twenty four) Months**.

The contractor will deploy sufficient manpower (i.e. Technical Supervisor, Electrician, Plumber etc.) and materials, accessories tools and plants required for the maintenance of the buildings, services, landscaping works, external development works during defect liability period. No extra charge in this account shall be paid to the contractor. Therefore, contractor is advised to quote the cost accordingly.

The Warranty/Defect Liability Period shall commence from the date of issue of the Taking Over Certificate by Principal Employer or issue of Completion Certificate by Principal Employer or agreed date of start of Defect Liability Period by the Principal Employer whichever is later. The Warranty period of equipments/items shall be provided as per the manufacturer norms or upto end of Defect liability period whichever is more. When the equipment is under Warranty/Defect Liability Period, it shall be the sole responsibility of the Contractor/Supplier to rectify defect of equipment, spare parts, replacement equipment as deemed necessary by the Employer/Owner and install the same without any cost implications to Employer/ Owner.

If the contractor or his working people or servants shall break, deface, injure or destroy any part of building in which they may be working, or any building, road, road kerb, fence, enclosure, water pipe, cables, drains, electric or telephone post or wires, trees, grass or grassland, or cultivated ground contiguous to the premises on which the work or any part is being executed, or if any damage shall happen to the work while in progress, from any cause whatever or if any defect, shrinkage or other faults appear in the work within twenty four months (six months in the case of work costing Rs. Ten lacs and below except road work) after a certificate final or otherwise of its completion shall have been given by the Engineer-in- Charge as aforesaid arising out of defect or improper materials or workmanship the contractor shall upon receipt of a notice in writing on that behalf make the same good at his own expense or in default the Engineer-in-Charge cause the same to be made good by other workmen and deduct the expense from any sums that may be due or at any time thereafter may become due to the contractor, or from his security deposit or the proceeds of sale thereof or of a sufficient portion thereof.

Contractor shall take required works / rectification of defects immediately after receiving of complaints from Principal Employer / Employer. If Contractor fails to attend the complaints within the given time frame by Engineer-in-charge, then any expenditure incurred by WAPCOS in completing works / rectification of defects shall 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.

CLAUSE 18: CONTRACTOR SUPPLY TOOLS & PLANTS ETC.

The contractor shall provide at his own cost all materials, machinery, tools & plants as specified in tender. In addition to this, appliances, implements, other plants, ladders, cordage, tackle, scaffolding and temporary works required for the proper execution of the work, whether original, altered or substituted and whether included in the specifications or other documents forming part of the contract or referred to in these conditions or not, or which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in-Charge as to any matter as to which under these conditions he is entitled to be satisfied, or which he is entitled to require together with carriage therefore to and from the work. The contractor shall also supply without charge the requisite number of persons with the means and materials, necessary for the purpose of setting out works, and counting, weighing and assisting the measurement for examination at any time and from time to time of the work or materials. Failing his so doing, the same may be provided by the Engineer-in-Charge at the expense of the contractor and the expenses may be deducted, from any money due to the contractor, under this contract or otherwise and/or from his security deposit or the proceeds of sale thereof, or of a sufficient portions thereof.

CLAUSE 18A : RECOVERY OF COMPENSATION PAID TO WORKMEN

In every case in which by virtue of the provisions sub-section (1) of Section 12, of the Workmen's Compensation Act, 1923, WAPCOS is obliged to pay compensation to a workman employed by the contractor, in execution of the works, WAPCOS will recover from the contractor, the amount of the compensation so paid; and, without prejudice to the rights of the WAPCOS under sub-section (2) of Section 12, of the said Act, WAPCOS shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by WAPCOS to the contractor whether under this contract or otherwise. WAPCOS shall not be bound to contest any claim made against it under sub-section (1) of Section 12, of the said Act, except on the written request of the contractor and upon his giving to WAPCOS full security for all costs for which WAPCOS might become liable in consequence of contesting such claim.

CLAUSE 18B: ENSURING PAYMENT AND AMENITIES TO WORKERS, IF CONTRACTOR FAILS

In every case in which by virtue of the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and of the Contract Labour (Regulation and Abolition) Central Rules, 1971, WAPCOS is obliged to pay any amounts of wages to a workman employed by the contractor in execution of the works, or to incur any expenditure in providing welfare and health amenities required to be provided under the above said Act and the rules under Clause 19H or under the C.P.W.D. Contractor's Labour Regulations, or under the Rules framed by Government from time to time for the protection of health and sanitary arrangements for workers employed by C.P.W.D. Contractors, WAPCOS will recover from the contractor, the amount of wages so paid or the amount of expenditure so incurred; and without prejudice to the rights of the WAPCOS under sub-section(2) of Section 20, and sub-section (4) of Section 21, of the Contract Labour (Regulation and Abolition) Act, 1970, WAPCOS shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by WAPCOS to the contractor whether under this contract or otherwise WAPCOS shall not be bound to contest any claim made against it under sub-section (1) of Section 20, sub-section (4) of Section 21, of the said Act, except on the written request of the contractor and upon his giving to the WAPCOS full security for all costs for which WAPCOS might become liable in contesting such claim.

CLAUSE 19 : LABOUR LAWS TO BE COMPLIED BY CONTRACTOR

The contractor shall obtain a valid license under the Contract Labour (R&A) Act, 1970, and the Contract Labour (Regulation and Abolition) Central Rules, 1971, before the commencement of the work, and continue to have a valid license until the completion of the work.

The contractor shall also comply with provisions of the Inter-State Migrant Workmen (Regulation of Employment and Conditions of Service) Act, 1979.

The contractor shall also abide by the provisions of the Child Labour (Prohibition and Regulation) Act, 1986.

The contractor shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act, 1996.

Any failure to fulfill these requirements shall attract the penal provisions of this contract arising out of the resultant non-execution of the work

CLAUSE 19A

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

CLAUSE 19B : PAYMENT OF WAGES

- i. The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.
- ii. 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.
- iii. 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 unauthorisedly 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) Central Rules, 1971, wherever applicable.
- iv. (a) 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.
- (b) Under the provision of Minimum Wages (Central) Rules, 1950, 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.

- v. 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, or the modifications thereof or any other laws relating thereto and the rules made thereunder from time to time.
- vi. The contractor shall indemnify and keep indemnified WAPCOS against payments to be made under and for the observance of the laws aforesaid without prejudice to his right to claim indemnity from his sub-contractors.
- vii. 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.
- viii. 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.
- ix. 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.

CLAUSE 19C

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 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.500/- 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.

CLAUSE 19 D

The contractor shall submit by the 4th and 19th of every month, to the Engineer-in-Charge, a true statement showing in respect of the second half of the preceding month and the first half of the current month respectively:-

- (1) The number of labourers employed by him on the work,
- (2) Their working hours,
- (3) The wages paid to them,
- (4) The accidents that occurred during the said fortnight showing the circumstances under which they happened and the extent of damage and injury caused by them, and
- (5) The number of female workers who have been allowed maternity benefit according to Clause 19F and the amount paid to them.

Failing which the contractor shall be liable to pay to WAPCOS, a sum not exceeding Rs.500/- for each default or materially incorrect statement. The decision of the Engineer-In-Charge shall be final in deducting from any bill due to the contractor; the amount levied as fine and be binding on the contractor.

CLAUSE 19 E

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.

CLAUSE 19 F

Leave and pay during leave shall be regulated as follows:-

- 1. Leave :**
 - (i) in the case of delivery - maternity leave not exceeding 8 weeks, 4 weeks up to and including the day of delivery and 4 weeks following that day,
 - (ii) in the case of miscarriage - upto 3 weeks from the date of miscarriage.
- 2. Pay :**
 - (i) in the case of delivery - leave pay during maternity leave will be at the rate of the women's average daily earnings, calculated on total wages earned on the days when full time work was done during a period of three months immediately preceding the date on which she gives notice that she expects to be confined or at the rate of Rupee one only a day whichever is greater.
 - (ii) in the case of miscarriage - leave pay at the rate of average daily earning calculated on the total wages earned on the days when full time work was done during a period of three months immediately preceding the date of such miscarriage.
- 3. Conditions for the grant of Maternity Leave:**
No maternity leave benefit shall be admissible to a woman unless she has been employed for a total period of not less than six months immediately preceding the date on which she proceeds on leave.
- 4. The contractor shall maintain a register of Maternity (Benefit) in the Prescribed Form as shown in Appendix -I and II, and the same shall be kept at the place of work.**

CLAUSE 19 G

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.500/- 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.500/- 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.

Should it appear to the Engineer-in-Charge that the contractor(s) is/are not properly observing and complying with the provisions of the Labour Regulations and Model Rules and the provisions of the Contract Labour (Regulation and Abolition) Act 1970, and the Contract Labour (R& A) Central Rules 1971, 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).

CLAUSE 19 H

The contractor(s) shall at his/their own cost provide his/their labour with a sufficient number of huts (hereinafter referred to as the camp) of the following specifications on a suitable plot of land to be approved by the Engineer-in-Charge.

- (i)
 - (a) The minimum height of each hut at the eaves level shall be 2.10m (7 ft.) and the floor area to be provided will be at the rate of 2.7 sq.m. (30 sq.ft.) for each member of the worker's family staying with the labourer.
 - (b) The contractor(s) shall in addition construct suitable cooking places having a minimum area of 1.80m x 1.50m (6'x5') adjacent to the hut for each family.
 - (c) The contractor(s) shall also construct temporary latrines and urinals for the use of the labourers each on the scale of not less than four per each one hundred of the total strength, separate latrines and urinals being provided for women.
 - (d) The contractor(s) shall construct sufficient number of bathing and washing places, one unit for every 25 persons residing in the camp. These bathing and washing places shall be suitably screened.
- (ii)
 - (a) All the huts shall have walls of sun-dried or burnt-bricks laid in mud mortar or other suitable local materials as may be approved by the Engineer-in-Charge. In case of sun-dried bricks, the walls should be plastered with mud gobri on both sides. The floor may be kutcha but plastered with mud gobri and shall be at least 15 cm (6") above the surrounding ground. The roofs shall be laid with thatch or any other materials as may be approved by the Engineer-in-Charge and the contractor shall ensure that throughout the period of their occupation, the roofs remain water-tight.
 - (b) The contractor(s) shall provide each hut with proper ventilation.
 - (c) All doors, windows, and ventilators shall be provided with suitable leaves for security purposes.
 - (d) There shall be kept an open space of at least 7.2m (8 yards) between the rows of huts which may be reduced to 6m (20 ft.) according to the availability of site with the approval of the Engineer-in-Charge. Back to back construction will be allowed
- (iii) **Water Supply** - The contractor(s) shall provide adequate supply of water for the use of labourers. The provisions shall not be less than two gallons of pure and wholesome water per head per day for drinking purposes and three gallons of clean water per head per day for bathing and washing purposes. Where piped water supply is available, supply shall be at stand posts and where the supply is from wells or river, tanks which may be of metal or masonry, shall be provided. The contractor(s) shall also at his/ their own cost make arrangements for laying pipe lines for water supply to his/ their labour camp from the existing mains wherever available, and shall pay all fees and charges therefore.
- (iv) The site selected for the camp shall be high ground, removed from jungle.
- (v) **Disposal of Excreta** - The contractor(s) shall make necessary arrangements for the disposal of excreta from the latrines by trenching or incineration which shall be according to the requirements laid down by the Local Health Authorities. If trenching or incineration is not

allowed, the contractor(s) shall make arrangements for the removal of the excreta through the Municipal Committee/authority and inform it about the number of labourers employed so that arrangements may be made by such Committee/authority for the removal of the excreta. All charges on this account shall be borne by the contractor and paid direct by him to the Municipality/authority. The contractor shall provide one sweeper for every eight seats in case of dry system.

- (vi) **Drainage** - The contractor(s) shall provide efficient arrangements for draining away sullage water so as to keep the camp neat and tidy.
- (vii) The contractor(s) shall make necessary arrangements for keeping the camp area sufficiently lighted to avoid accidents to the workers.
- (viii) **Sanitation** - The contractor(s) shall make arrangements for conservancy and sanitation in the labour camps according to the rules of the Local Public Health and Medical Authorities.

CLAUSE 19 I

The Engineer-in-Charge may require the contractor to dismiss or remove from the site of the work any person or persons in the contractors' employ upon the work who may be incompetent or misconduct himself and the contractor shall forthwith comply with such requirements. In respect of maintenance/repair or renovation works etc. where the labour have an easy access to the individual houses, the contractor shall issue identity cards to the labourers, whether temporary or permanent and he shall be responsible for any untoward action on the part of such labour.

CLAUSE 19J

It shall be the responsibility of the contractor to see that the building under construction is not occupied by anybody unauthorisedly during construction, and is handed over to the Engineer-in-Charge with vacant possession of complete building. If such building though completed is occupied illegally, then the Engineer-in-Charge shall have the option to refuse to accept the said building/buildings in that position. Any delay in acceptance on this account will be treated as the delay in completion and for such delay, a levy upto 5% of Contract Price of work may be imposed by the WAPCOS whose decision shall be final both with regard to the justification and quantum and be binding on the contractor.

However, Employer, through a notice, may require the contractor to remove the illegal occupation any time on or before construction and delivery.

CLAUSE 19K : Employment of Skilled / Semi Skilled Workers

The contractor shall, at all stages of work, deploy skilled/semi skilled tradesmen who are qualified and possess certificate in particular trade from Industrial Training Institute/National Institute of construction Management and Research (NICMAR)/ National Academy of Construction, CIDC or any similar reputed and recognized Institute managed/ certified by State/Central Government. The number of such qualified tradesmen shall not be less than 20% of total skilled/semi skilled workers required in each trade at any stage of work. The contractor shall submit number of man days required in respect of each trade, its scheduling and the list of qualified tradesmen along with requisite certificate from recognized Institute to Engineer-in-charge for approval. Notwithstanding such approval, if the tradesmen are found to have inadequate skill to execute the work of respective trade, the contractor shall substitute such tradesmen within two days of written notice from Engineer-in-Charge. Failure on the part of contractor to obtain approval of Engineer-in-Charge or failure to deploy qualified tradesmen will attract a compensation to be paid by contractor at the rate of Rs. 100 per such tradesman per day. Decision of Engineer-in-charge

as to whether particular tradesman possesses requisite skill and amount of compensation in case of default shall be final and binding.

Provided always, that the provisions of this clause, shall not be applicable for works with estimated cost put to tender being less than Rs. 5 crores.

For work costing more than Rs. 10 Crores, and upto Rs. 50 Crores, the Contractor shall arrange on site training as per National Skill Development Corporation (NSDC) norms for at least 20% of the unskilled workers engaged in the project in co-ordination with the Employer & National Skill Development Corporation (NSDC) for certification at the level of skilled/semi-skilled tradesmen.

For works costing more than Rs. 50 Crores, the Contractor shall arrange on site training as per National Skill Development Corporation (NSDC) norms for at least 30% of the unskilled worker engaged in the project in co-ordination with the Employer & National Skill Development Corporation (NSDC) for certification at the level of skilled/semi-skilled tradesmen. The cost of such training as stated above shall be borne by the Government. The necessary space and workers shall be provided by the Contractor and no claim what so ever shall be entertained.

CLAUSE 20 : 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.

CLAUSE 21 : 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.

CLAUSE 22

All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the use of WAPCOS without reference to the actual loss or damage sustained and whether or not any damage shall have been sustained.

CLAUSE 23 : 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 Proprietor Firm, 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.

CLAUSE 24: LIFE CYCLE COST

The contractor shall be responsible for safety, quality and soundness of the buildings including structural elements beyond maintenance period. The contractor shall have obligation to rectify such defects minimum up to 5 (five) years from the date of completion of work. The defects have to be rectified within a reasonable time not exceeding forty five days after issue of notice by Engineer-in-Charge. If contractor does not take corrective action within 45 days, then action for debarring of the agency shall be taken by the appropriate authority.

CLAUSE 25: SETTLEMENT OF DISPUTES

25.1 GOVERNING LAW, JURISDICTION & WAIVER OF ALTERNATIVE REMEDIES

25.1.1 Governing Law: This Contract shall be governed and interpreted strictly in accordance with the laws of India. No foreign law, conflict-of-laws principle, or external rule shall apply, unless expressly mandated by a funding agency and separately approved in writing by the Competent Authority.

25.1.2. Exclusive Jurisdiction: Subject to prior exhaustion of the internal dispute-resolution tiers stipulated in this Contract, the Parties agree that all suits, actions, or proceedings arising out of or in connection with this Contract, including its formation, validity, performance, breach, or termination, shall be instituted exclusively before the competent civil courts at Delhi, being the place where the Company's Registered Office is situated, to the exclusion of all other courts. The Parties irrevocably waive any objection relating to forum non conveniens, place of suing, or inconvenience.

25.1.3. Exclusion of arbitration & consensual ADR: The Parties unequivocally agree that no dispute shall be referred to arbitration, conciliation, expert determination, Dispute Review Board, or any other form of consensual alternative dispute resolution, except where statutorily mandated (e.g., MSMED Act). This exclusion is without prejudice to the mandatory pre-litigation mediation process stipulated in Clause 25.2.3 below.

25.1.4. The parties expressly agree that there is no arbitration agreement between them and they irrevocably waive any right to invoke arbitration under the Arbitration and Conciliation Act, 1996 or to constitute an arbitral tribunal in any manner whatsoever.

25.2 STRUCTURED INTERNAL DISPUTE RESOLUTION MECHANISM (SIDRM)

25.2.1 Tier-I: Dispute resolution by Engineer-in-Charge (EIC)

25.2.1.1 Notice of Dispute: Any Dispute must be notified in writing to the EIC within 21 days from the date on which the aggrieved Party became, or ought reasonably to have become, aware of the event giving rise to the Dispute.

25.2.1.2 Contents of Notice: The notice shall contain (i) complete facts and chronology; (ii) precise contractual clauses invoked; (iii) a quantified claim with calculations; and (iv) full supporting records such as drawings, DPRs, MBs, photographs, test results, correspondence, and site registers. Vague, omnibus, or un-particularised notices shall be summarily rejected without prejudice to WAPCOS.

25.2.1.3 EIC's Decision: The EIC shall examine the matter, including through joint site verification or expert inputs as needed, and shall issue a speaking order within 30 days of receiving a complete notice.

25.2.1.4 Binding Effect: The EIC's decision shall bind both Parties unless a written request seeking escalation to Tier-II is filed within 15 days from the date of issuance of EIC's decision. Absence of a timely request shall render the EIC decision final.

25.2.2 Tier-II: Departmental Review Committee (DRC)

25.2.2.1 Constitution: A standing Departmental Review Committee, consisting of three senior officers including two Technical and one Finance/ Account officer, shall independently review disputes escalated from Tier-I.

25.2.2.2 Review Process: The DRC shall conduct a record-based administrative review of the Tier-I file, supplemented by written submissions from the Contractor. The committee may permit oral hearings if it deems them necessary for a fair decision.

25.2.2.3 Decision & Finality: The DRC shall deliver reasoned determination within 30 days of referral, extendable once by 30 days for, if resolution takes time, with reasons recorded. This determination shall constitute the final administrative decision of WAPCOS.

25.2.3 Tier-III: MANDATORY PRE-LITIGATION MEDIATION

25.2.3.1 Obligation to Mediate: Following the DRC decision (or deemed decision), either Party may initiate pre-litigation mediation. Where the dispute qualifies as a 'commercial dispute' under the Commercial Courts Act, 2015, this mediation shall satisfy the mandatory pre-litigation requirement under Section 12A of the said Act.

25.2.3.2 Mediation Parameters: Mediation shall be conducted by a mediator empanelled with the High Court or a Government-notified mediation service provider in accordance with the Mediation Act, 2023. The timelines and extension provisions stipulated in the Act shall apply.

25.2.3.3 Approval of Settlement: Any mediated settlement agreement shall be subject to final written approval and execution by the Competent Authority of WAPCOS. The mediator shall be informed at the outset that the authorized representative of WAPCOS does not have the inherent power to bind WAPCOS to a settlement without such approval. If such approval is not granted within 30 days of the settlement terms being presented, the settlement shall be deemed not concluded, and the mediation shall be treated as unsuccessful.

25.3 CIVIL COURT JURISDICTION & CONSEQUENCES OF BREACH

25.3.1 Exhaustion of Remedies: A Party may file a civil suit only after (a) obtaining a DRC decision or deemed decision, and (b) participating in the mandatory mediation process and obtaining a failure report.

25.3.2 Mandatory Pleadings: Every plaint shall specifically demonstrate compliance with Tier-I, Tier-II, and Tier-III requirements. Failure to do so shall render the plaint liable to rejection.

25.3.3 Any attempt to initiate arbitration or file a civil suit without first exhausting the mandatory tiers stipulated above shall constitute a material breach of contract. WAPCOS shall be entitled to seek appropriate relief from the court, including but not limited to an injunction to restrain such proceedings, and to recover all associated costs and expenses.

25.4 GENERAL PROVISIONS

25.4.1 Severability: If any portion of this Clause is invalidated by a court, the remaining parts shall remain in force.

25.4.2 Amendment: This Clause may be amended only by a written instrument signed by the CMD or an expressly authorized officer of WAPCOS.

25.4.3. Failure to continue performance shall constitute a material breach entitling WAPCOS to terminate the Contract without prejudice to its other right.

CLAUSE 26 : CONTRACTOR INDEMNIFY EMPLOYER AGAINST PATENT RIGHTS

The contractor shall fully indemnify and keep indemnified the Employer 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 Employer 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 Employer 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.

CLAUSE 27 : LUMPSUM PROVISIONS IN TENDER – NOT APPLICABLE

CLAUSE 28 : 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.

CLAUSE 29 : WITHOLDING 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 finalisation 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) Employer 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.

CLAUSE 29A : 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 Employer or any other contracting person or persons through Engineer-in-Charge against any claim of the Engineer-in-Charge or Employer 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 Employer 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 Employer will be kept withheld or retained as such by the Engineer-in-Charge or the Employer 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.

CLAUSE 30 : WATER FOR WORKS

The contractor(s) shall make his/their own arrangements for water required for the work and nothing extra will be paid for the same. **The ground water at site is not fit for construction works.** This will be subject to the following conditions.

- (i) That the water used by the contractor(s) shall be fit for construction purposes to the satisfaction of the Project Manager, WAPCOS.
- (ii) The contractor(s) shall make his/their own arrangement of water connection and laying of pipelines from existing main of source of supply if available.
- (iii) The water charges @ 1 % on tendered value shall be recovered if water supplied by Government/ Principal Employer is used by contractor.

CLAUSE 30A : ALTERNATE WATER ARRANGEMENTS

The contractor shall be allowed to construct temporary wells in Government land for taking water for construction purposes only after he has got permission from the concerned Government Authority and inform the same to Engineer-In-Charge in writing. No charges shall be recovered from the contractor on this account, but the contractor shall be required to provide necessary safety arrangements to avoid any accidents or damage to adjacent buildings, roads and service lines. He shall be responsible for any accidents or damage caused due to construction and subsequent maintenance of the wells and shall restore the ground to its original condition after the wells are dismantled on completion of the work.

CLAUSE 31 : HIRE OF PLANT & MACHINERY

The contractor shall arrange at his own expense all tools, plant, machinery and equipment (hereinafter referred to as T&P) required for execution of the work.

CLAUSE 32 : EMPLOYMENT OF TECHNICAL STAFF AND EMPLOYEES

The contractor shall provide and employ skilled, semiskilled and unskilled labour as is necessary for proper and timely execution of the work with full quality control. The contractor shall provide all necessary superintendence during execution of the work and all along thereafter as may be necessary for proper fulfilling of the obligations under the contract.

The contractor shall immediately after receiving letter of acceptance of the tender and before commencement of the work, intimate in writing to the Engineer-in-Charge, the name(s), qualifications, experience, age, address(s) and other particulars along with certificates, of the principal technical representative to be in charge of the work and other technical representative(s) who will be supervising the work. Even of the contractor (or partner(s) in case of firm/ company) is himself / herself an Engineers, it is necessary on the part of the contractor to Employ principal technical representative / technical representative (s).

The contractor shall provide and employ on the site only such technical assistants as are skilled and experienced in their respective fields and such foremen and supervisory staff as are competent to give proper supervision to the work.

The Engineer-in-Charge shall be at liberty to object to and require the contractor to remove from the works any person who in his opinion misconducts himself, or is incompetent or negligent in the performance of his duties or whose employment is otherwise considered by the Engineer-in-Charge to be undesirable. Such person shall not be employed again at works site without the written permission of the Engineer-in- Charge and the persons so removed shall be replaced as soon as possible by competent substitutes.

CLAUSE 33 : LEVY/TAXES PAYABLE BY CONTRACTOR

- (i) The Contract price is inclusive of Goods and Service Tax (GST) and any other taxes, levies, royalties together with all general risks, liabilities and obligations set out or implied in the Contract, applicable Labour Cess, cost of insurance to this Contract, all applicable tax liabilities, Income Tax

- & Surcharges, etc. However, only the payment of GST shall be reimbursed by the Employer to the Contractor.
- (ii) The Contractor shall issue E-Invoice (if applicable for contractor firm)/Tax Invoices to Employer showing (a) Basic Amount (b) GST amount separately for each bill. The payment of GST amount shall be reimbursed to the Contractor only after uploading of GST amount by Contractor on GST portal to avail input benefit of GST by Employer.
 - (iii) Notwithstanding anything contained above, the Contractor shall ensure payment of appropriate tax on the supplies made under the Contract. The Contractor shall comply with all applicable provision of Goods and Service Tax (GST) levied by Union Government and State Governments. The Contractor shall get himself registered and discharge his obligations for payment of taxes, filing of returns etc. under the appropriate provisions of law in respect of all the taxes, duties, levies, cess, etc. The Employer would have right to seek necessary evidence that the Contractor is registered under the law and duly discharging its obligations under the tax law, enabling the Employer to avail input tax credit.
 - (iv) In case any law requires the Employer to pay tax on the Contract price on reverse charge basis, the amount of tax deposited by Employer would be considered as paid to the Contractor and, accordingly, the price payable to the Contractor would stand reduced to that extent.
 - (v) In case the Contractor does not deposit the tax payable on execution of the Contract, or has not provided the tax invoice to Employer showing the amount of tax, or has not uploaded the document in computerized tax network as per prevailing law, leading to non-availability of inputs credit of the tax to Employer, the amount equivalent to such tax shall be deducted from the any amount payable to Contractor.
 - (vi) The contractor shall deposit royalty and obtain necessary permit for supply of the red bajri, stone, kankar, etc. from local authorities.

If pursuant to or under any law, notification or order any royalty, cess or the like becomes payable by the Employer and does not any time become payable by the Contractor to the State Government, Local authorities in respect of any material used by the Contractor in the works, then in such a case, it shall be lawful to the Employer and it will have the right and be entitled to recover the amount paid in the circumstances as aforesaid from dues of the Contractor.

CLAUSE 34 : CONDITIONS FOR REIMBURSEMENT OF LEVY/TAXES IF LEVIED AFTER RECEIPT OF TENDERS

All tendered cost shall be inclusive of all taxes and levies (except GST) payable under respective statutes. However, if any further tax or levy or cess is imposed by Statute, after the last stipulated date for the receipt of tender including extensions if any and the contractor thereupon necessarily and properly pays such taxes/levies/cess, the contractor shall be reimbursed the amount so paid, provided such payments, if any, is not, in the opinion of the WAPCOS attributable to delay in execution of work within the control of the contractor.

Provided further that for Building and Other Construction Workers Welfare Cess or any tax (other than GST), levy or cess varied or imposed after the last date of receipt of tender including extension if any, any increase shall be reimbursed to the contractor only if the contractor necessarily and properly pays such increased amount of taxes/levies/cess.

- (i) Provided further that such increase including GST shall not be made in the extended period of contract for which the contractor alone is responsible for delay as determined by WAPCOS for extension of time.
- (ii) The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorized representative of the Government and/or the Engineer-in-Charge and shall also furnish such other information/document as the Engineer-in-Charge may require from time to time.

- (iii) The contractor shall, within a period of 30 days of the imposition of any such further tax or levy or cess, or variation or repeal of such tax or levy or cess give a written notice thereof to the Engineer-in-charge that the same is given pursuant to this condition, together with all necessary information relating thereto.

CLAUSE 35 : 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.

CLAUSE 36 : 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 grand parents, children and grand children, brothers and sisters, uncles, aunts and cousins and their corresponding in-laws.

CLAUSE 37: 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.

CLAUSE 38 : THEORETICAL CONSUMPTION OF MATERIAL- NOT APPLICABLE

CLAUSE 39 : COMPENSATION DURING WARLIKE SITUATION

The work (whether fully constructed or not) and all materials, machines, tools and plants, scaffolding, temporary buildings and other things connected therewith shall be at the risk of the Contractor until the work has been delivered to the Engineer-in-Charge and a certificate from him to that effect obtained. In the event of the work or any materials properly brought to the site for incorporation in the work being damaged or destroyed in consequence of hostilities or warlike operation, the Contractor shall when ordered (in writing) by the Engineer-in-Charge to remove any debris from the site, collect and properly stack or remove in store all serviceable materials salvaged from the damaged work and shall be paid at the Contract rates in accordance with the provision of this agreement for the work of clearing the site of debris, stacking or removal of serviceable material and for reconstruction of all works ordered by the Engineer-in-Charge, such payments being in addition to compensation upto the value of the work originally executed before being damaged or destroyed and not paid for. In case of works damaged or destroyed but not already measured and paid for, the compensation shall be assessed the Engineer-in-Charge upto Rs. 2,00,000/- and by the next higher officer concerned for a higher amount. The Contractor shall be paid for the damages/destruction suffered and for restoring the material at the rate based on analysis of rates tendered for in accordance with the provision of the Contract. The certificate of the

Engineer-in-Charge regarding the quality and quantity of materials and the purpose for which they were collected shall be final and binding on all parties to this Contract.

Provided always that no compensation shall be payable for any loss in consequence of hostilities or warlike operations (a) unless the Contractor had taken all such precautions against air raid as are deemed necessary by the A.R.P. (Air Raid precaution) Officers or the Engineer-in-Charge (b) for any material etc. not on the site of the work or for any tools, plant, machinery, scaffolding, temporary building and other things not intended for the work.

In the event of the Contractor having to carry out reconstruction as aforesaid, he shall be allowed such extension of time for its completion as is considered reasonable by the Engineer-in-Charge.

CLAUSE 40 : 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.

CLAUSE 41 : RELEASE OF SECURITY DEPOSIT AFTER LABOUR CLEARANCE

Release of Security Deposit of the work shall not be refunded if any complaint from labour / labour department against the contractor deployed at site for execution of works. As soon as the work is virtually complete the contractor shall apply for the clearance certificate to the Labour Officer under intimation to the Engineer-in-Charge.

CLAUSE42: INSURANCE

1. Requirements

Before commencing execution of works, it shall be obligatory for the contractor to obtain at his own cost stipulated insurance cover under the following requirements:

- a) Contractor's All Risk and Third Party Cover covering all as per standard norms of policy including damage to material, machinery and works due to fire theft etc.
- b) **Liability under the Workmen's Compensation Act, 1923, Minimum Wages Act, 1948 and Contract Labour (Regulation and Abolition) Act, 1970** including covering of to accidents to staff, Engineers, Supervisors and others who are not governed by workmen's compensation Act.

Above policies shall remain in force throughout the period up to completion & handing over of work.

CLAUSE 43 : PREFERENCE TO MAKE IN INDIA

The provisions 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.

Verification of Local Content

- i. 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(s) at which the local value addition is made.
- ii. 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 the 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- 44: RULE 144 (XI) IN GENERAL FINANCIAL RULES (GFRS) 2017

- i. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.
- ii. Bidder from a country which shares a land border with India” for the purpose of this Order means:-
 - a) An entity incorporated, established or registered in such a country; or
 - b) A subsidiary of an entity incorporated, established or registered in such a country; or
 - c) An entity substantially controlled through entities incorporated, established or registered in such a country; or
 - d) An entity whose beneficial owner is situated in such a country; or
 - e) An Indian (or other) agent of such an entity; or
 - f) A natural person who is a citizen of such a country; or
 - g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above
- iii. The beneficial owner for the purpose of clause above will be as under:
 1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercise control through other means.
 2. “Controlling ownership interest” means ownership of or entitlement to more than twenty- five per cent. Of shares or capital or profits of the company;
 3. “Control” shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;
 4. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
 5. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone of together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profit of such association or body of individuals;
 6. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
 7. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.
- iv. An Agent is a person employed to do any act for another, or to represent another in dealings with third person. The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

SECTION- V

SPECIAL CONDITIONS OF CONTRACT

SECTION-V**SPECIAL CONDITIONS OF CONTRACT****1.0 SPECIAL CONDITIONS OF CONTRACT**

The Special Condition of Contract (SCC) shall be followed by the Contractor in addition to the General Condition of Contract (GCC) of tender document. The following General Condition of Contract of this tender are modified/added as detailed below. In case of any discrepancy between GCC and SCC, the SCC will succeed over GCC.

GENERAL RULES AND DIRECTIONS under GCC		
DEFINITIONS		
2 (ix)	Market Rate Percentage on cost of materials and labour to cover all overheads and profits	15%
2(x)	Schedule(s)	Haryana Schedule Rates- 2021 for Civil, Electrical & other works including Amendments herein referred as HSR-2021.

GCC Clause No.	Particular	Modified/ Added
Clause 1	Performance Security	<p>a) The successful Bidder shall deliver to the Employer a Performance Security in any of the forms given below for an amount equivalent to 5% of the Tended Value:</p> <ul style="list-style-type: none"> • a Bank Guarantee issued by a Scheduled Commercial Bank approved by Reserve Bank of India (RBI) as per Annexure-I of Bid document; or • a deposit receipt of a Scheduled Commercial Bank approved by Reserve Bank of India (RBI) in favour of WAPCOS Limited payable at Delhi/ Gurgaon. <p>b) The confirmation of the Bank Guarantee shall be sought from the issuing bank through Structured Financial Messaging System (SFMS), from our banker Indian Overseas Bank, NHB, Gurugram, Branch Code: 1935, IFSC code: IOBA0001935 and Beneficiary as WAPCOS Limited. This shall also be applicable in respect of confirmation of any extension of the Bank Guarantee as and when required.</p>
Clause 7B	Payment	As Bidder/Contractor acknowledges that under the present Contract agreement, the Employer is only working as intermediary between Principal Employer and Contractor. Thus, the Contractor unconditionally acknowledge that the payments under the present Contract shall be made proportionately by the Employer only on back-to-back basis i.e., after 45 days subject to receipt of payment from Principal Employer. The Contractor also unconditionally agree that in the event

GCC Clause No.	Particular	Modified/ Added
		the payment or part thereof, under the present Contract is not received from Principal Employer, then WAPCOS and/or any of its Employee/Officer shall not be responsible to pay any amount to Contractor. The said condition shall supersede any and all other conditions of Contract/Agreement/Work Order/Arrangement between the parties.
Clause 10 B(iv)	Recovery of Mobilization advance	Applicable The mobilization advance shall be recovered @ 25% of the value of work done (excluding GST) from each running account bill till complete mobilization advance is recovered.
Clause 12	Deviations / Variations Extent and Pricing	
	Clause 12.1	Not applicable
	Clause 12.2(a)	<p>Modified as:</p> <ul style="list-style-type: none"> • Extra Item(s) means items which are completely new and not included in the Scope of Work / BoQ under this tender. • Scheduled Extra Item: In case of extra item(s) are Scheduled items as per HSR-2021, then rate of item shall be achieved by 89.29% (100/1.12 because 12% GST is already included in HSR) of schedule rate. The applicable GST will be paid over the achieved rate after approval of WAPCOS. In case, item is not in HSR 2021, but available in Delhi Schedule Rates (DSR) 2023 (Civil) & DSR 2025 (Electrical) then rate of item shall be achieved by 84.74 % (100/1.18 because 18% GST is already included in DSR) of schedule rate. The applicable GST will be paid over the achieved rate after approval of WAPCOS. • Non-scheduled Extra Item: In case of extra item(s) are Non- Scheduled items as per HSR-2021, DSR 2023 (Civil) & DSR 2025 (Electrical), the contractor shall submit proper analysis on the basis of the market rates as per the direction of Engineer-in –charge and shall be paid in accordance with rate approved by WAPCOS plus applicable Goods and Service Tax (GST).
	Clause 12.2(b)	<p>Modified as:</p> <ul style="list-style-type: none"> • Substituted Item(s) means that are taken up with the partial substitution or in lieu of item of work in the Contract/Tender BoQ. • Scheduled Substituted Item: In case the substituted item(s) are Scheduled items as per HSR-2021, the rate shall be derived at 89.29% (100/1.12) of the scheduled rate.

GCC Clause No.	Particular	Modified/ Added
		<p>Thereafter, applicable GST shall be paid over the achieved rate, after approval of WAPCOS.</p> <ul style="list-style-type: none"> • Non Scheduled Substituted Items: In case the substituted item(s) are Non-Scheduled items as per HSR-2021 the contractor shall assess the rates based on prevailing market rates, as directed by the Engineer-in-Charge/WAPCOS. The applicable GST shall be paid over the achieved rate, after approval of WAPCOS.
	<p>Clause 12.2(c) Deviation Limit for all items of work</p>	<p>100%</p> <ul style="list-style-type: none"> • Modified as “In the case of deviated item(s) beyond deviation limit, being non Scheduled items as per HSR-2021. The contractor may within fifteen days of receipt of order or occurrence of the item(s) claim rates, supported by proper analysis on the basis of the market rates. Contractor shall be paid in accordance with rate approved by WAPCOS/CBLU plus applicable Goods and Service Tax (GST) on work contract. • In this case of Deviated item beyond deviation limit, being Schedule items as per HSR-2021, then rate of deviated item shall be achieved by 89.29% (100/1.12 because 12% GST is already included in HSR) of schedule rate of HSR. The applicable GST will be paid over the achieved rate after approval of WAPCOS.

2.0 ADDITIONAL CONDITIONS OF CONTRACT

2.1 Important Information

The full-fledged CBLU campus is running at the proposed work site comes under this tender and proper Courses and Classes are on-going in the campus at Prem Nagar, Bhiwani. The contractor shall make all the arrangement for the safety, barricading etc. for Students, CBLU Officials, Staff, Visitors and any other People. Contractor shall deploy proper manpower for the management of the same. Any accident happened and liability arises due to any accident, during the execution of work will be the sole responsibility of the Contractor.

The CBLU campus is running in already constructed teaching block and other developed infrastructure facilities till date. The safety of these existing infrastructures will be the sole responsibility of the contractor. If any damage occurs at any part of the already developed infrastructure facility during the execution of work, the same shall be rectified or newly developed by the contractor at his own cost as per the direction of Principal Employer.

2.2 Water Constraints at Site

The Contractor shall make suitable arrangement for supply of water fit for construction works as ground water at site is not fit for construction works. The cost for the same shall be considered by the contractor in the quoted rates. No extra cost for the same shall be paid to the contractor. The contractor shall get the treated water, tested periodically from outside NABL approved laboratory (within 2 months or early) as per directions of Engineer in charge, before he proceeds with the use of same for execution of works. The suitable water for construction shall be arranged by Contractor at his own cost and nothing extra shall be paid to the contractor on this account.

2.3 Batching Plant at Site

The contractor must install computerized digital weighing Concrete Batching plant (having provision of printed batch weighing slip) of capacity 10-30 cum/hour with cement silos at site before start of work. The cost for the same shall be considered by the contractor in the quoted rates. No extra cost for the same shall be paid to the contractor. Suitable place for installation of batching plant shall be finalized as per the direction of WAPCOS/ CBLU.

2.4 Inspection of the work by any Government Agency/ Principal Employer

The Contractor shall be responsible for consequential effects arising out during the inspection done by the Chief Technical Examiner Cell, Central Vigilance Commission or Committee constituted by the Principal Employer or construction site visiting team of Principal Employer or by the Building Works Committee or third party authorized by WAPCOS or any Statuary Committee or by any duly authorized representative of WAPCOS, during the progress of work or any time after the construction and development of project up to the defect liability period. The Contractor, his consultant, subcontractors of all tiers and suppliers thereof shall make available during the inspection with all records necessary to demonstrate that the Works have been executed in accordance with the Contract Agreement. The contractor will also arrange testing / lab equipment for any type of testing, sampling etc as suggested by above team and also send the sample for testing as per the direction of team at his own risk and cost.

Contractor will take appropriate action for rectification of defective work and modifications as suggested by the above teams/ group/ individual. Rectification of defective works or replacement of sub-standard materials or articles or modifications, as pointed above will be carried out or replaced/ modified by the Contractor at his own risk and cost. The Employer will not pay any extra amount for such rectification or consequential effects arising out during the inspection.

2.5 Prior Approval from Fire Department & Electrical Department

Contractor shall take prior approval well in advance of electrical substation, layout, drawings, electrical equipment, solar installation drawings/documents etc. from concern Electrical Department/ local Authorities before order of procurement & commencing the Electric work. Contractor shall take prior NOC from Local Fire Department & submit the project drawings to the Fire Department before commencing the construction works for checking and verification of fire department as per the fire norms of that particular region. After the completion of work, Contractor shall apply and provide final fire department NOC.

2.6 Furnished office accommodation and mobility and communication to be provided by Contractor to WAPCOS

On account of furnished Project office equipped with all facilities such as telephone, fax,

internet, photocopier, computer/Laptop & printer along with operator, regular electric & purified drinking water supply and inspection vehicle etc. as per the requirement of the project an amount equal to 1% of gross bill from all running account & final bill will be recovered in lieu of amenities stated above.

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

2.7 Site Safety and Security

- The Contractor has to make own security arrangement. Contractor shall maintain upto date record of in & out of the material & labour / staff at the security gate of campus at its own expenses.
- The Contractor shall provide safety equipment to the Employers/officers (whenever required).
- Contractor shall deploy security/ watchmen for 24 hours on site at entire execution period and up to successful handing over of the project to the Principal Employer.

2.8 Approach Roads and Transportation of Equipment & Materials

Contractor will be permitted to use the existing roads in the establishment area for the purpose of transporting equipment and materials and for use of labour etc if Principal Employer permits the same. The Engineer-in-Charge, however, will not undertake to provide any approach roads to the actual site of work. It shall be the entire responsibility of the Contractor to provide and maintain such temporary approach roads including cross drainage works if any at his own cost for the purpose of movement of men, materials and equipment.

2.9 Supply of Water for Construction Purpose

Contractor shall make his own arrangement of water required for the work, at his own cost, subject to the approval of the Engineer-in-Charge. However, the Contractor will be permitted to drill bore well/s at site and the Contractor shall pay all charges to local bodies / authorities / royalty if any and obtain statutory approvals, geological survey provide pump, pipeline, casing with all accessories required for functioning of the bore well. The water should be tested in an approved laboratory and should be permitted to use in work if found suitable for construction. However, Contractor shall make alternate arrangements in case the water is not found fit for construction. After completion of work the Contractor will handover complete bore well/s with pump/s and accessories to the Employer at no cost. The water storage tanks should be leak proof and wastage and misuse of water is strictly prohibited, Contamination and pollution of water to be strictly avoided. Construction water should not be used for drinking or for domestic purpose.

2.10 Monthly Bill of Electric & Water Department

The Contractor shall make his own arrangement for the Temporary connection for Supply of Electricity & Water for Construction Purpose as required at his own cost and pay their monthly bill. After getting permanent connection during final stage of construction for Principal Employer/ Project, contractor shall pay monthly billing charges of Permanent electric and water connection (taken by contractor on behalf of Principal Employer, to run project) up to the successful handing over of the project to Principal Employer, from the date of installation of connections. These charges will be borne by the contractor. Hence contractor shall quote the cost in tender accordingly.

2.11 Handing Over of the Project

Contractor shall properly cover up & protect all the work throughout the duration of work at his cost until successful handing over to the Principal Employer, particularly flooring, risers, mouldings, steps, terrace or special floor finishes (by a layer of 25 mm thick Plaster of Paris over Polyethylene sheet as approved by Engineer-in-Charge) staircases and balustrades, doors and glass, paint work, furniture and all finishing

Contractor shall apply/ liaison, well before the completion of project, for permanent electricity connection, Electric load enhancement, solar net metering from concerned Electrical Departments for Permanent supply of electricity to the project within the completion period of the project. After completion of installation of electric equipments & connections, Contractor shall arrange necessary testing of equipment, panels, transformer, DG set, solar installation etc. at site as per norms and provide test reports to Employer/local Authorities. After that Contractor will arrange all necessary approval/NOC from Chief Electrical Inspector Department/ local Authorities etc. to submit further to the electricity department for getting permanent electrical supply to the project.

Contractor shall apply/ liaison, well before the completion of project, permanent water connection & Sewerage Connection, gas connection, etc. from concerned Departments/ Government Authorities which are mandatory to make the project operational and get the connection within the completion period of the project.

Contractor shall provide necessary Statutory Approvals/NOCs/ License from all local Government/ Statuary Authorities including Fire, Forest, Electrical, Pollution, Environment, Lift, DG Set, final Occupancy Certificate required before handing over the project to the Principal Employer.

The statutory fees, if any will be deposited by the contractor for the above will be reimbursable to the contractor by Employer after providing the original receipt of the concern department. No other amount will be paid to the contractor for above works.

After completion of works in all respect contractor will submit the comprehensive Project Completion Report to the Employer comprising of :

- A covering letter formally declaring project completion
- Geo-tagged photographs of the completed project components
- Detailed As-Built Drawings for all components of the work
- Fire Safety NoCs and all other applicable statutory clearances / approvals / NoCs, as mandated under the Contract
- Occupancy Certificate, if any from Local Authority
- Component wise / building wise inventory lists
- Warranty and Guarantee certificates/bonds for all equipment and installations
- Guarantee Bond /Affidavit for Works as per Section of Annexures
- Contract For Removal of Defects after Completion in Respect of Water Proofing Works as per Section of Annexures
- Guarantee Bonds for Anti-Termite Treatment for works as per Section of Annexures
- Any other documents as per Contractual provisions

Upon receipt of comprehensive Project Completion Report by Employer, Contractor shall propose a date for joint physical inspection / verification of the work at site by Employer/ Principal Employer/ State Officer/ any other concerned agency, including inventory and documentation.

A snag list or deficiency list, will be prepared by the Employer on the basis of Joint Physical Inspection to identify and record any defects, incomplete work, or items that do not meet specifications. Immediately Contractor will deploy manpower & resources for the compliance of observations on Snag List. The Project shall be deemed as handed over only after successful compliance, verification and formal acceptance by Employer/ Principal Employer/ State Officer and subsequently contractor will hand over the Lock & Keys of each facility. The partial handing over of works components shall not be considered

The Warranty/Defect Liability Period shall commence from the date of issue of the Taking Over Certificate by Principal Employer or issue of Completion Certificate by Principal Employer or agreed date of start of Defect Liability Period by the Principal Employer, whichever is later

The completion certificate shall be issued by Employer to the Contractor after successful handing/taking over by Principal Employer; submitting of Occupational Certificates issued by the local urban bodies/Municipal Corporation by contractor along with submission of all necessary NOC's/statutory approvals from all concerned departments such as local urban bodies, Fire Department, Electricity Board/Chief Electrical Inspector, Forest, Lift etc. of that area in accordance with Government norms to enable Principal Employer/Owner to occupy the project with all required service. The Completion Certificate shall only be issued after the submission of "No Claim Certificate" by contractor as per the format given in the Section of Annexures

2.12 Ceremony/Inaugural Function

The contractor shall make all arrangements for Foundation Stone/ Ground Breaking Ceremony/Inaugural Function etc. for the project as required.

2.13 Setting out Base Lines and Levels

The Contractor shall establish at site the layout of each component of the work from base lines and grids established by the Employer and shall be responsible for all measurements in connection therewith. The Contractor shall, at his own expenses, furnish all stakes, templates, platform, equipment, ranges and labour that may be required in setting out or laying out any part of the work. The Contractor shall be held responsible for the proper execution of the work to such lines, levels and grids as may be established or indicated on the drawings and specifications. The Contractor shall check the bench marks and stakes existing at the site for laying out lines and levels.

The Contractor has to construct and maintain proper bench marks at all salient locations/positions in order that the lines and levels may be accurately checked at all times.

Theodolite/ Total Station, Levels, Prismatic Compass, Chain, Steel and FRP Tapes and all other surveying instruments found necessary on the works shall be provided by the Contractor for use at site in connection with this work.

2.14 Co-operation & Co-ordination with other Agencies:

The Contractor shall have to make Coordination with other agencies engaged at the site by the Employer at no extra cost and share the Site with other Contractors/agencies, public authorities, utilities working in the area, if any. The Contractor will carry out the entire work in a planned manner by coordinating his work with other agencies, who will be simultaneously carrying out work in the same area and also co-ordinate in connection with the position of various fixtures, inserts, embedment's and other allied work connected with the completion of the building / subject work.

In case of any dispute between the agencies engaged on the same work, decision of Engineer-in-Charge shall be final and binding.

2.15 Operations and Storage Areas

All operations of the Contractor shall be confined to areas authorized by the Project Manager, WAPCOS and storage of materials shall be over the areas specially indicated by the Project Manager, WAPCOS. Materials like sand and metal of different sizes shall be stored in properly constructed bins with hard floor to avoid inter mixing as well as mixing with objectionable materials. The Contractor shall be obliged to keep the premises in hygienic conditions by proper drainages of the area provided with suitable approaches throughout the period of Contract. He shall rectify all damages caused to the Government property within the areas thus allotted. He shall be responsible to clear all rank, vegetation at site at his own cost.

2.16 Contractor's Storage and Site Office

The Contractor shall make own arrangement for storing his equipment, plant, materials etc. and for his site office and cement godown. The Contractor be solely responsible for watching or guarding his property and materials. Contractor shall cover all materials at site with requisite insurance against theft, larceny, dacoits, fire tempest and flood. The Contractor, however, shall have to dismantle the shed and vacate the land after the receipt of due notice from the Project Manager, WAPCOS if the same is obstructing any work. The Contractor should obtain necessary permission / approval from Statutory Authorities such as Municipal corporations / Local bodies etc. for construction of temporary structures at site of work such as cement godown, stores, site office etc. It will be responsibility of the Contractor to prepare proper plans, to pay any requisite fees to statutory authorities and to execute the work for the temporary structure at their own cost as per the conditions and rules laid by statutory authorities.

The Engineer-in-Charge or his authorized representative shall have a right at any time to inspect and examine any stores and materials intended to be used in or on the works either on the site or at any factory or workshops or other places where such stores or materials are being constructed or manufactured or processed or any place from where they are being obtained and the Contractor shall give such facilities as required to be given for such inspection and examination.

The Engineer-in-Charge or his authorized representative shall be entitled to have tests made without any extra cost to the Employer at the laboratory selected by the Employer for any stores and or materials supplied by the Contractors, who shall provide at his own expense all the facilities which the Engineer-in-Charge may require for this purpose.

Any stores and materials brought to site for use on the work and which has been rejected by Engineer-in-Charge shall be immediately removed off the site by Contractor at his own expenses and intimate in writing accordingly to the Engineer-in-Charge. The rejected materials shall not be used in any manner in the construction of the project.

2.17 Temporary Buildings

Any temporarily buildings and office facilities as required by the Contractor shall be arranged by the Contractor at his own expense. Area for the same will be made available by the Employer, if available. After the work is over, all these temporary facilities shall be removed by the Contractor at his own expense within 10 days from the date of completion.

Labour Camp is permitted at site after approval of Principal Employer. However, no labour shall be permitted to stay in the partly completed building at any time. Unauthorized occupation of any area/partly completed building by the Contractor's labourer will be treated as trespass and action will be taken to evict them including termination of Contract if deemed fit. Sanitary as well as water supply and drainage facilities as required by the labour laws in force, are to be provided by the Contractors at his own cost. The labour camp should be dismantled by the Contractor before handing over the buildings.

2.18 Traffic Interference & Inconvenience to the Public

The Contractor shall so conduct his operations as to interfere as little as possible with the traffic/public. When interference to traffic is inevitable, a notice of such interference shall be given to the Project Manager, WAPCOS well in advance (at least 2 days) at any stage, if it

becomes necessary to divert the traffic, the Contractor shall obtain permission from the local traffic authorities at his own expense. The Employer will render reasonable assistance in the matter. The Contractor shall take all precautionary and other measure, such as providing warning signals, temporary diversion etc. all as directed by the Project Manager, WAPCOS.

The Contractor shall not deposit materials anywhere at work site which will seriously inconvenience the public. The Project Manager, WAPCOS may require the Contractor to remove any materials which are considered to be a danger or inconvenience to the public or cause them to be removed at the Contractor's cost.

The Contractor shall exercise full care to ensure that no damage is caused by him or his workmen, during the operation to the existing water supply and power lines. The cost of any such damage and risks arising out of this shall be entirely borne by the Contractor.

2.19 Drainage around the Buildings and Foundation for other Works

The Contractor shall be entirely responsible for the provision and maintenance of efficient drainage arrangements in the work site to lead all water whatsoever pumped out from the excavations on account of rains, floods, springs or any other source whatsoever. The foundation trenches shall be kept free from water while all the works below ground level are in progress.

Flooding or ponding of water in the work site shall not be permitted under any circumstances whatsoever and the Contractor shall take all necessary precautions to prevent the same by providing suitable pumps and other dewatering arrangement.

The cost of repairing damages if any, to the work under execution or to any government property in and around the site shall be entirely borne by the Contractor where such damages are due to his non-compliance with the above conditions.

2.20 Maintenance of Entire Electrical Installation

As mentioned above, the Contractor shall maintain his entire electrical installation, appliances etc. in good and safe condition as required under relevant rules and BIS codes of practice etc. till completion of works at his own cost. However, the following precautions and directives shall be followed in addition to observing other essential rules:

- a. The minimum clearance (measured at the lowest sag point) to be maintained for all overhead lines shall be 4 Mtrs. cross country or along roads and 6.1 metres across roads.
- b. Metallic poles as a general rule should be avoided and if used should be earthed individually.
- c. All loose hanging of wires and cables should be avoided. The line wires should be properly supported and an approved method of fixing shall be adopted.
- d. Installation shall not cause any hindrance to the normal movement of men and materials at site.
- e. All cables and wires should be adequately protected against mechanical damage during construction activity of all Contractors, working at site.
- f. In case the cable is required to be laid in ground, it should be adequately protected by covering the same with bricks, R.C.C. tiles or any other approved means and cable markers provided at suitable intervals as per approval of the Engineer-in-Charge.
- g. Laying of cable and wires direct on floor shall not be allowed but if absolutely necessary for some very short lengths, the same shall be taken through suitable mechanical covering like G.I. / M.S. Pipes etc.
- h. All the cut door switch boards, equipment etc., should be adequately protected against rain or preferably they should not be exposed to weather.
- i. If overhead lines using bare conductors are installed, a guard wire system of adequate size shall run along the cables / wires and earthed effectively.
- j. The connection for portable machines shall be taken only through suitably rated 3 pin socket points. Iron clad industrial type outlets are preferred. While taking supply through socket outlet a plug top must be used, avoiding inserting of loose wires in the sockets. The

third pin of the plug shall invariably be earthed and 3 core wire of appropriate specifications and capacity shall be used.

- k. All three-phase equipment shall be provided with duplicate earthing. All metallic frames, light fixtures, portable equipment's etc. should be effectively earthed to main earthing.
- l. Duly authorized persons having valid wireman's license / competence certificate must be employed under the supervision of a qualified and experienced Electrical Supervisor for carrying out electrical work and repair of electrical equipment, installation and maintenance etc. at site.
- m. Special precaution shall be taken by the Contractor not to disturb the sapling/trees recently planted by the side of the compound wall. The sapling/trees fall within the building/road etc. shall be transplanted to suitable place with written approval of the Engineer-in-Charge and maintained by the Contractor till completion of works at his own cost.

2.21 Proper drawings and instructions

The Contractor shall provide shop drawings and other drawings to the Engineer-in-Charge in line with the requirement of contract agreement from time to time for approval for the purpose of proper and adequate execution and maintenance of the work and the Contractor shall carry out the work and be bound by the same as per instructions of Engineer-in-Charge.

Copies of the drawings approved by the Engineer-in-Charge and the construction drawings issued shall be kept by the Contractor at the site and the same shall at all reasonable times be made available for inspection and use by the Engineer-in-Charge and any other person authorized by the Engineer-in-Charge.

2.22 Employment of Staff for Plumbing & Electrical Works

- Employment of certified plumber: Certified plumbers should be employed by the Contractor on the work for main sewer, filtered and unfiltered main.
- Employment of licensed electrical foreman: The Contractor should employ a licensed electrical foreman to supervise the Electrical works.

2.23 Urgent repairs

If by reason of any accident or failure or other event occurring to or in connection with the work or any part thereof either during the period of construction or maintenance, any remedial or other work or repair shall in the opinion of the Project Manager, WAPCOS be urgently necessary for security etc. and the Contractor is unable or unwilling, at once, to do such work or repair, the Project Manager, WAPCOS may be his own or other workmen do such work or repair as he may consider necessary. If the work or repair so done which in the opinion of the Project Manager, WAPCOS, the Contractor was liable to do at his own expenses under the Contract and all cost and charges properly incurred by the Project Manager, WAPCOS in so doing shall on demand be paid by the Contractor or may be deducted from any sum due or which may become due to the Contractor provided always that the Project Manager, WAPCOS shall soon after the occurrence of any such emergency as may be reasonable, practicable, notify the Contractor thereof in writing.

2.24 Security Regulations

The Contractor has to strictly follow the security regulations at the work site regarding entry of personnel, material etc. and any other regulation that might be enforced from time to time. All materials and articles brought by the Contractor to the work site shall have to be declared at the security gate. Similarly, no materials shall be taken out from the premises without proper gate pass.

The Contractors, Suppliers, vendors, workers engaged in work/business will be issued with renewable entry permit to avoid unauthorized entry in the work site on scrutiny of applications

in prescribed form.

For working on Sundays, Holidays and late hours, even though permission will be accorded by the Engineer-in-Charge, the Contractor will have to make application to the Engineer-in-Charge also and keep them informed well in advance.

The area where the proposed work is to be carried is residential / non-residential area under the control of Security authorities, entry to the site of work shall be through the main gate only. The Contractor shall follow strictly the security regulations at site of work regarding entry of personnel, materials etc. and other regulations that might be enforced from time to time at the work site and also in the campus for smooth and efficient operation. The Contractors, his agents, representatives, workmen etc. and his materials, carts, trucks or other means of transport etc. will be allowed to enter through and leave from such point of entry/exit at such times, the authorities in charge of the area, at their sole discretion, may permit.

The Contractors, his agents and representatives are required to be in possession of the individual identity / muster cards or passes. The muster cards or passes are examined by the security staff at the time entry / exit inside the premises and also at any time or number of times within such area.

The Contractor will have to apply for entry/muster permits of likely number of labour to be engaged during the week for the workers and authorize their representatives to collect the entry permits for labour from the Employer's Security Authorities.

It will be the responsibility of the Contractor to maintain the list of laborers permitted to work inside the premises in a register and the representative of Contractor's labour will have to issue entry pass to each labour after making necessary entry in the registers.

The Contractor, his agents, representatives, workmen shall strictly observe the orders pertaining to prevailing fire precautions.

In addition to the above, other security regulations as may be imposed by the Security authorities / Project Manager, WAPCOS shall be complied with / observed by the Contractor and his workmen, in addition to the above.

Any breach of above security regulations and rules in force from time to time will be viewed seriously. No claim whatsoever will be entertained by the Employer on account of the observation of the Security regulations.

2.25 Watch and Ward and Lighting

The Contractor shall in connection with the works provide and maintain at his own cost all lights, guards, fencing and watching when and where necessary or as required by the Project Manager, WAPCOS and duly constituted authority for the protection of the workers or for safety and convenience of the public or others. The Contractor shall be responsible for all damages and accidents caused due to negligence in this regard.

It will be the entire responsibility of the Contractor to protect the work(s) carried out by them including the fittings, fixtures and other accessories provided by them till the entire work is satisfactorily handed over to the Employer.

2.26 Removal of rejected/sub-standard materials.

The following procedure shall be followed for the removal of rejected/sub-standard materials from the site of work:

- (i) Whenever any material brought by the contractor to the site of work is rejected, entry thereof should invariably be made in the Site Order Book under the signature of the Project

- Manager, WAPCOS, giving the approximate quantity of such materials.
- (ii) As soon as the material is removed, a certificate to that effect shall be recorded by the Project Manager, WAPCOS against the original entry, giving, the date of removal and mode of removal, i.e., whether by truck, carts, or by manual labour. If the removal is by truck, the registration number of the truck should be recorded.
 - (iii) When it is not possible for the Project Manager, WAPCOS to be present at the site of work at the time of actual removal of the rejected/sub-standard materials from the site, the required certificate should be recorded by the Authorized Representative of WAPCOS, and the Project Manager, WAPCOS should countersign the certificate recorded by the Authorized Representative.

2.27 Special Conditions for Steel:

In case of non availability of steel in the vicinity of project location, as per the makes mentioned in List of Approved Makes, contractor shall procure required TMT bars of Fe500/Fe500D/Fe550/Fe550D grade (the grade to be procured is to be specified) from primary steel producers using iron ore as the basic raw material / input and having crude steel capacity of 2.0 Million tonnes per annum and above as approved by WAPCOS. Samples of steel arranged by the contractor shall be tested in accordance with provisions of relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected and it shall be removed from the site by the contractor at his own cost within 7 days of written order from the Engineer-in-Charge to do so.

2.28 Special conditions for Cement

In case of non availability of cement in the vicinity of project location, as per the makes mentioned in List of Approved Makes, contractor shall procure cement from reputed manufacturers having a production capacity not less than one million tones per annum as approved by WAPCOS. The cement brought to the site for execution of work shall be in bags bearing manufacturer's name & ISI marking. Weight of cement in each bag shall be 50 kg. Samples of cement arranged by the contractor shall be tested in accordance with provisions of relevant BIS codes. In case the test results indicate that the cement arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected and it shall be removed from the site by the contractor at his own cost within 7 days of written order from the Engineer-in-Charge to do so.

2.29 Special Conditions for and Testing

The contractor shall provide Guarantee Bond in the prescribed format for 10 years. After laying and jointing of pipes for PHE works (Internal Plumbing works for water supply, Plumbing works for Sanitary Installations and Plumbing works for External Drainage etc.). Contractor shall carry out Smoke test, Pressure test etc. as per CPWD Specification 2019 to check the pressure, leakage and sustainability of whole pipe network system. After these successful testing and checking in the presence of Project Manager, WAPCOS, the concerned pipeline sections shall be concealed/ plastered / covered as per the specification requirement.

Similarly after water proofing works and finalization of roof top surface/exposed surfaces, the entire surface thus treated shall be flooded with water by making check dams with weak cement mortar, for a minimum period of two weeks.

- 2.30 Special Conditions for Waterproofing:** The contractor shall associate himself with the specialized firm, to be approved by the Engineer-in-Charge in writing, for water proofing treatment for lower ground floor, underground & overhead tank, pump room, on roofs & toilets. The irrevocable Bank Guarantee from scheduled bank for an amount equivalent to 0.5% of the Tendered value for the project with Tendered Value up to Rs. 50 Crore and 0.30% for the Tendered Value above Rs. 50 Crore), in the prescribed proforma attached with tender

document, shall be given by the contractor, valid for a period of ten years from the date after the Defects Liability Period prescribed in the contract. If however any defect is noticed during the guarantee period, it shall be rectified by the contractor within seven days of intimation. In case it is not attended to, the same will be got done by another agency at the risk and cost of the contractor, and the Bank Guarantee shall be forfeited. This Bank Guarantee not required for the works of tendered value below 5.0 Crore excluding GST.

2.31 Other Conditions

- a) Contractor shall use good quality Steel Props and steel shuttering material for RCC works. Use of wooden props and shuttering is affecting the line, level and alignment of RCC members. No payment shall be released for RCC work where use of wooden centering & shuttering material is noticed or reported.
- b) All mass Reinforced Cement Concrete work shall be design mix concrete of specified grade and initial design mix shall be carried out from the NIT/IIT only immediately after award of work. The Design Mix report shall be submitted to WAPCOS before commencement of the RCC works at site.
- c) The Contractor shall be responsible to co-ordinate with service provider/concerned authorities for cutting of trees, shifting of utilities and removal of encroachments etc. and making the site un-encumbered from the project construction area required for completion of work. This shall include initial and frequent follow up meetings/ actions/ discussions with each involved service provider/ concerned authorities. The contractor shall not be entitled for any additional compensation for delay in cutting of trees, shifting of utilities and removal of encroachments by the service provider/ concerned authorities.
- d) Contractor shall provide R.O. Plant sufficient for workers employed at site, his technical staff and site staff.
- e) Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been in-built in the items and nothing extra shall be payable (or) extra cement considered in consumption on this account.
- f) No payment shall be made for any damage caused by rain, snowfall, flood or any other natural calamity, whatsoever during the execution of the work. The Contractor shall be fully responsible for any damage to the govt. property and work for which the payment has been advanced to him under the contract and he shall make good the same at his risk and cost. The Contractor shall be fully responsible for safety and security of his material, T&P, Machinery brought to the site by him.
- g) Wherever work is specified to be done or material procured through specialized agencies, their names shall be got approved well in advance from Engineer-in-Charge. Failure to do so shall not justify delay in execution of work. It is suggested that immediately after award of work, Contractor should negotiate with concerned specialist agencies and send their names for approval to Engineer-in-Charge. Any material procured without prior approval of Engineer-in-Charge in writing is liable to be rejected. Engineer-in-Charge reserves right to get the materials tested in laboratories of his choice before final acceptance. Nonstandard materials shall not be accepted.
- h) The construction joints shall be provided in predetermined locations & as per the approved drawings only.
- i) The Contractor shall invariably prepare the samples of finishing items i.e. flooring of different types, external & internal finishing i/c colour scheme of paint, tiles in dado, flooring in platforms & staircase, water supply & sanitary fittings and any other item as per direction of Project Manager, WAPCOS. The Contractor shall proceed with further finishing items only after getting the samples of these items approved in writing from Engineer-in-Charge. No extra claim whatsoever beyond the payments due at agreement rates will be entertained from the Contractor on this account.
- j) Contractor shall not divert any advance payments or part thereof for any work other than that needed for completion of the contracted work. All advance payments received as per

terms of the contract (i.e., mobilization advance, secured advance against materials brought at site, secured advance against plant & machinery and/or for work done during interim stages, etc.) are required to be re-invested in the contracted work to ensure advance availability of resources in terms of materials, labour, plant & machinery needed for required pace of progress for timely completion of work.

- k) Any Circular/Guidelines/SOP issued by the Principal Employer/ Government during the progress/ execution of the construction work shall be followed by the contractor without any dispute. The contractor shall comply with proper and legal orders and directions of the local or public authority or municipality and abide by their rule and regulations and pay all fees and charges which he may be liable.
- l) All the modifications and any additional works (basic requirement after use of premises by user) suggested by Principal Employer at the time of handing over of the project and after occupancy of premises by Principal Employer during Defect Liability Period must be taken up by contractor without any disputes.
- m) If any dispute/ hindrance may arise during construction due to any reason whatsoever, the contractor is not liable for any financial claim or damages due to such circumstances.
- n) If the work is carried out in more than one shift or during night, no claim on this account shall be entertained. The contractor has to take permission from the police & local authorities etc. if required for work during night hours. No claim / hindrance on this account shall be considered if work is not allowed during night time. The requisite supervision shall be made available by the WAPCOS along with necessary issue of material under joint custody.
- o) In case of any inconsistency between clauses, the clause favorable/ beneficiary to the project will prevail which will be decided by the Principal Employer and Employer.
- p) One sample room complete in all shape for each category, shall be prepared by the contractor and got approved from Engineer-in-charge in writing. The contractor shall be allowed to proceed with further rooms only after getting the sample room approved in writing from Engineer-in-charge No extra claim whatsoever beyond the payments due at agreement rates will be entertained from the contractor on this account.
- q) It must be ensure that all materials to be used in work bear BIS certification mark. In cases where BIS certification system is available for a particular material/product but not even a single producer has so far approached BIS for certification the material can be used subject to the condition that it should confirm to CPWD specification and relevant BIS codes. In such case written approval of the Engineer-In-Charge may be obtained before use of such material in the work.
- r) In case of works where a ready mix concrete (RMC) is stipulated to be used from an approved source/manufacturer, cement register need not be maintained. However, the computerized dispatch slips that are sent with each dispatch of RMC shall be kept as record.

SECTION – VI

ANNEXURES

ANNEXURE - I	FORMAT FOR CONTRACT AGREEMENT AND LETTER OF AWARD
ANNEXURE - II	FORMAT FOR PERFORMANCE BANK GUARANTEE
ANNEXURE - III	FORMAT FOR MOBILIZATION ADVANCE PAYMENT BANK GUARANTEE
ANNEXURE - IV	FORMAT FOR INDENTURE FOR SECURED ADVANCES
ANNEXURE - V	FORMAT OF BANK GUARANTEE FOR EMD
ANNEXURE - VI	FORMAT FOR SEEKING EXTENSION OF TIME
ANNEXURE – VII	FORMAT OF GUARANTEE BOND /AFFIDAVIT FOR WORKS
ANNEXURE – VIII & VIII (a)	CONTRACT FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS
ANNEXURE – IX	FORMAT FOR GUARANTEE BONDS FOR ANTI-TERMITE TREATMENT FOR WORKS
ANNEXURE – X	SAFETY CODES
ANNEXURE – XI	MODEL RULES FOR THE PROTECTION OF HEALTH AND SANITARY ARRANGEMENTS FOR WORKERS EMPLOYED BY CONTRACTORS
ANNEXURE – XII	CONTRACTOR'S LABOUR REGULATIONS
ANNEXURE - XIII	NO CLAIM CERTIFICATE

ANNEXURE-I**(Format for “Contract” to be signed on Non-Judicial Stamp Paper of Rs. 100 by successful bidder)****CONTRACT AGREEMENT**

This Contract made on the ____ day of ____ 20____ between WAPCOS Limited, a Company in corporate under Indian Company’s Act and having its registered office at 5th floor, Kailash Building, 26, K. G. Marg, New Delhi (hereinafter called “WAPCOS” of the one part) and (Name of Contractor Firm & Address)_____ (hereinafter called “Contractor” of the other part).

WHEREAS the WAPCOS is desirous that Work known as “_____”. (Herein after referred to as “Work/ Project”) under the Tender no. _____ dated _____ should be executed by the Contractor AND WHEREAS by a Letter of Award No. _____ dated _____ issued by WAPCOS Limited and accepted by the contractor. WAPCOS Limited has accepted a Bid submitted by the Contractor for the execution and completion of such Work AND WHEREAS the Contractor has agreed to undertake such Work and furnish a Performance Security _____(details) pursuant to Tender conditions.

NOW THIS AGREEMENT WITNESSETH as follows;

In this Contract words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.

The following documents shall be deemed to form and be read and construed as part of this Contract, viz;

- a) Tender Document no. _____ dtd. _____
- b) Letter of Award to Contractor by WAPCOS
- c) Documents furnished by the Contractor during Bidding process
- d) Corrigendum/Amendments, if any
- e) Clarifications / Correspondences, if any
- f) Any other documents as forming part of the contract

1. The aforesaid documents shall be taken as complementary and mutually explanatory of one another.
2. In consideration of the payment to be made by WAPCOS to the Contractor as indicated in this Contract, the Contractor hereby covenants with WAPCOS to execute and complete the Works in conformity, in all respects, with the provisions of the Contract.
3. WAPCOS hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects therein the Contract Price or such other sum as may become payable under the provisions of the contract at the time and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with Laws of India on the day, month & year indicated above.

SIGNED, SEALED AND DELIVERED

For and on behalf of the WAPCOS

For and on behalf of the Contractor

NAME _____
Designation _____

NAME _____
Designation _____

in the presence of witness:

in the presence of Witness

1 _____

1 _____

2 _____

2 _____

NOTE: Contractor shall submit the Original Power of Attorney on Non-Judicial Stamp Paper for this particular Work / Project, in the name of Person who will sign the Contract with WAPCOS after award of Work.

FORMAT FOR LETTER OF AWARD

No.

Date:.....

M/s(Name of successful Bidder)

..... (Address of successful bidder)

Subject: Award Letter for “Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”**Reference:** Tender No.

Dear Sir,

We are pleased to inform that work of “.....” is awarded to your firm, in cost of Rs. ----- excluding GST, according to submission of your technical & financial bids against referred tender for the subjected work.

Project	Awarded Cost excluding GST
“Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”	Rs.

- The “Date of Commencement of Work” shall be 15 days after Date of Award or Handing over of Site whichever is later and accordingly, planning should be started for deploying manpower, resources as per Terms & Conditions of Tender document.
- The tender document wholly accepted by you along with all related correspondences at the time of bidding shall form a part of this letter of award.
- You are requested to submit the following as per Terms & Conditions of tender
 - Performance Security @5% of Tendered Value as per the Annexure enclosed in the tender document before signing of the Agreement within 30 (Thirty) days of the date of acceptance of the letter of award and sign the Contract Agreement.
 - Detailed Schedule Plan/ Bar chart of each component of work to complete the work in stipulated time period
 - Labour License from concerned Labour Department of State
 - Contractor All Risk (CAR) and Third Party Cover Policy.
 - Liability under the workmen’s compensation Act, 1923, Minimum Wages Act, 1948
 - Details of manpower to be deployed at site along with CVs
 - List of Lab Equipment required for the work for approval of Engineer-in charge.
- The terms & conditions of the Work will be governed as mentioned in the tender document.

This letter of award is being issued to you in duplicate. You are requested to return the duplicate copy of the letter of award immediately duly signed and stamped as a token of your unequivocal acceptance and confirmation of the same.

Thanking You,

Yours faithfully,
(Name & Designation)

Annexure – II

(To be submitted on non-judicial stamp paper of Rs. 100)

FORMAT FOR PERFORMANCE BANK GUARANTEE

To,
The WAPCOS Limited,
76-C, Sector 18, Institutional Area
Gurugram, Haryana-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 **"Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani"** (hereinafter called "the contract") and the Contractor having agreed to provide a Contract Performance Security for the faithful performance of the entire contract equivalent to Rs. _____ (Rupees _____ only) (5% of the said value of the Contract to the Employer).

We, _____ (name & address of bank) (hereinafter referred to as "the Bank" which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns) do hereby guarantee and undertake to pay the Employer, on demand any or, all monies payable by the Contractor to the extent of Rs. _____ (Rupees _____ only) as aforesaid at any time upto _____ without any demur, reservation, contest, recourse or protest and/or without any reference to the Contractor or court. 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 upto and including _____ and shall be extended from time to time for such period as may be desired by M/s WAPCOS Limited to whom 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 _____; and
- 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 twelve month after validity of Guarantee**)

Dated this _____ day of _____ at New Delhi.

Authorized Signatory of Bank

Signature

Signature

Name.....

Name.....

Signature Code/ S.S no.

Signature Code/ S.S no.

.....

ANNEXURE – III**(To be submitted on non-judicial stamp paper of Rs. 100)****FORMAT FOR MOBILIZATION ADVANCE PAYMENT BANK GUARANTEE**

To,
The WAPCOS Limited,
76-C, Sector 18, Institutional Area
Gurugram, Haryana-122015

In consideration of WAPCOS LTD. (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) with its Registered /Head Office at _____ (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 _____ (hereinafter called “the contract”) and the Employer having agreed to make an advance payment to the Contractor for performance of the above Contract amounting to Rs. _____ (Rupees _____ only) as an advance against bank guarantee to be furnished by the Contractor.

We, _____ (name & address of bank) having its Head Office at _____ (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 immediately on demand any or, all monies payable by the Contractor to the extent of Rs. _____ (Rupees _____ only) as aforesaid at any time upto _____ 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. We agree that the Guarantee herein contained shall be irrevocable and shall continue to be enforceable till the Employer discharges this guarantee. We further agree that no change in the constitution of the Bank or of the Employer shall affect this 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 vary the advance or 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 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 does hereby certify the genuineness and appropriateness of the Stamp paper and stamp value used for issuing the guarantee. We the said bank does 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 limited to Rs. _____ (Rupees _____ only) and it shall remain in force upto and including _____ and shall be extended from time to time for such period (not exceeding one year), as may be desired by M/s _____ 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 _____ and
- 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 twelve months after the validity of the guarantee**).

Dated this _____ day of _____ at.....

Authorized Signatory of Bank

Signature

Signature

Name.....

Name.....

Signature Code/ S.S no.

Signature Code/ S.S no.

.....

ANNEXURE-IV

(On non-judicial stamp paper of Rs. 100 duly attested by Notary / Magistrate)

FORMAT FOR INDENTURE FOR SECURED ADVANCES

THIS INDENTURE made the..... day of20..... BETWEEN (hereinafter called the Contractor which expression shall where the context so admits or implies be deemed to include his executors administrators and assigns) of the one part and the WAPCOS (hereinafter called the WAPCOS which expression shall where the context so admits or implies be deemed to include his successors in office and assigns) of the other part.

WHEREAS by an agreement dated..... (hereinafter called the said agreement) the Contractor has agreed AND WHEREAS the Contractor has applied to the WAPCOS that he may be allowed advances on the security of materials absolutely belonging to him and brought by him to the site of the works the subject of the said agreement for use in the construction of such of the works as he has undertaken to execute at rates fixed for the finished work (inclusive of the cost of materials and labour and other charges) AND WHEREAS the WAPCOS has agreed to advance to the Contractor the sum of Rupees on the security of materials the quantities and other particulars of which are detailed in Accounts of Secured Advances attached to the Running Account Bill for the said works signed by the Contractor onand the WAPCOS has reserved to himself the option of making any further advance or advances on the security of other materials brought by the Contractor to the site of the said works. Now THIS INDENTURE WITNESSETH that in pursuance of the said agreement and in consideration of the sum of Rupeeson or before the execution of these presents paid to the Contractor by the WAPCOS (the receipt whereof the Contractor doth hereby acknowledge) and of such further advances (if any) as may be made to him as aforesaid the Contractor doth hereby covenant and agree with the WAPCOS and declare as follows: -

- (1) That the said sum of Rupeesso advanced by the WAPCOS to the Contractor as aforesaid and all or any further sum or sums advanced as aforesaid shall be employed by the Contractor in or towards expediting the execution of the said works and for no other purpose whatsoever.
- (2) That the materials detailed in the said Account of Secured Advances which have been offered to and accepted by the WAPCOS as security are absolutely the Contractor's own property and free from encumbrances of any kind and the contractor will not make any application for or receive a further advance on the security of materials which are not absolutely his own property and free from encumbrances of any kind and the Contractor indemnifies the WAPCOS against all claims to any materials in respect of which an advance has been made to him as aforesaid.
- (3) That the materials detailed in the said Account of Secured Advances and all other materials on the security of which any further advance or advances may hereafter be made as aforesaid (hereinafter called the said materials) shall be used by the Contractor solely in the execution of the said works in accordance with the directions of the Divisional Officer Division (hereinafter called the Divisional Officer) and in the term of the said agreement.
- (4) That the Contractor shall make at his own cost all necessary and adequate arrangements for the proper watch, safe custody and protection against all risks of the said materials and that until used in construction as aforesaid the said materials shall remain at the site of the said works in the Contractor's custody and on his own responsibility and shall at all times be open to inspection by the Divisional Officer or any officer authorised by him. In the event of the said materials or any part thereof being stolen, destroyed or damaged or becoming deteriorated in a greater degree than is due to reasonable use and wear thereof the Contractor will forthwith replace the same

- with other materials of like quality or repair and make good the same as required by the Divisional Officer.
- (5) That the said materials shall not on any account be removed from the site of the said works except with the written permission of the Divisional Officer or an officer authorised by him on that behalf.
 - (6) That the advances shall be repayable in full when or before the Contractor receives payment from the WAPCOS of the price payable to him for the said works under the terms and provisions of the said agreement. Provided that if any intermediate payments are made to the Contractor on account of work done than on the occasion of each such payment the WAPCOS will be at liberty to make a recovery from the Contractor's bill for such payment by deducting there from the value of the said materials then actually used in the construction and in respect of which recovery has not been made previously, the value for this purpose being determined in respect of each description of materials at the rates at which the amounts of the advances made under these presents were calculated.
 - (7) That if the Contractor shall at any time make any default in the performance or observance in any respect of any of the terms and provisions of the said agreement or of these presents the total amount of the advance or advances that may still be owing to the WAPCOS shall immediately on the happening of such default be repayable by the Contractor to the WAPCOS together with interest thereon at twelve per cent per annum from the date or respective dates of such advance or advances to the date of repayment and with all costs charges, damages and expenses incurred by the WAPCOS in or for the recovery thereof or the enforcement of this security or otherwise by reason of the default of the Contractor and the Contractor hereby covenants and agrees with the WAPCOS to repay and pay the same respectively to him accordingly.
 - (8) That the Contractor hereby charges all the said materials with the repayment to the WAPCOS of the said sum of Rupeesand any further sum or sums advanced as aforesaid and all costs charges, damages and expenses payable under these presents PROVIDED ALWAYS and it is hereby agreed and declared that notwithstanding anything in the said agreement and without prejudice to the powers contained therein if and whenever the covenant for payment and repayment herein before contained shall become enforceable and the money owing shall not be paid in accordance therewith the WAPCOS may at any time thereafter adopt all or any of the following courses as he may deem best :-
 - (a) Size and utilize the said materials or any part thereof in the completion of the said works on behalf of the Contractor in accordance with the provisions in that behalf contained in the said agreement debiting the Contractor with the actual cost of effecting such completion and the amount due in respect of advances under these presents and crediting the Contractor with the value of work done as if he had carried it out in accordance with the said agreement and at the rates thereby provided. If the balance is against the Contractor he is to pay same to the WAPCOS on demand.
 - b) Remove and sell by public auction the seized materials or any part thereof and out of the moneys arising from the sale retain all the sums aforesaid repayable or payable to the WAPCOS under these presents and pay over the surplus (if any) to the Contractor.
 - (c) Deduct all or any part of the moneys owing out of the security deposit or any sum due to the Contractor under the said agreement.
 - (9) That except in the event of such default on the part of the Contractor as aforesaid interest on the said advance shall not be payable.
 - (10) That in the event of any conflict between the provisions of these presents and the said agreement the provisions of these presents shall prevail and in the event of any dispute or difference arising over the construction or effect of these presents the settlement of which has not been herein before expressly provided for the same shall be finally resolved as per provisions of clause 25 of the contract.

In witness whereof the said Contractor and WAPCOS by the order and under the direction of the WAPCOS have hereunto set their respective hands the day and year first above written.

SIGNED, SEALED AND DELIVERED

For and on behalf of the Contractor

For and on behalf of the WAPCOS

NAME _____

NAME _____

Designation _____

Designation _____

in the presence of witness:

in the presence of Witness

1 _____

1 _____

2 _____

2 _____

ANNEXURE-V

(To be submitted on non-judicial stamp paper of Rs. 100)

FORMAT FOR BANK GUARANTEE OF EMD

To,
The WAPCOS Limited,
76-C, Sector 18, Institutional Area
Gurugram, Haryana-122015.

WHEREAS, M/s having their Registered/Head Office at (hereinafter called “the Bidder”) has submitted his Bid dated for the [hereinafter called “the Bid”] to M/s WAPCOS Limited (hereinafter called the Employer)

KNOW ALL PEOPLE by these presents that we (name of the Bank) having our head office at (hereinafter called “the Bank”) are bound unto Employer in the sum of for which payment well and truly to be made to the Employer, the Bank binds itself, its successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this day ofmonth..... year.

THE CONDITIONS of this obligation are:

- (1) If after Bid opening the Bidder withdraws his bid during the period of Bid validity specified;
- OR
- (2) If the Bidder having been notified of the acceptance of his bid by during the period of Bid Validity:

We undertake to pay to the up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Bidder will note that the amount claimed by him is due to him owing to the occurrence of one or any of the above mentioned two conditions and specify the occurred condition or conditions.

This Guarantee will remain in force up to and including the date after the deadline for submission of Bids as is stated in the instructions to Bidders or as it may be extended by the notice of which extension(s) to the Bank is hereby waived and notice to the bidder would constitute sufficient notice to the Bank. Any demand in respect of this guarantee should reach the Bank not later than the above date.

Notwithstanding anything contained herein

- i) Liability under this guarantee shall not exceed
- ii) This bank guarantee shall be valid upto and;
- 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 period twelve months after the date of issue of Bank Guarantee).

Dated this _____ day of _____ at.....

Authorized Signatory of Bank

Signature

Signature

Name.....

Name.....

Signature Code/ S.S no.

Signature Code/ S.S no.

ANNEXURE-VI**(To be submitted on Contractor's original Letter Head)****FORMAT FOR SEEKING EXTENSION OF TIME**

1. Name of Contractor:
2. Name of work:
3. Agreement No. and Date:
4. Date of commencement of work as per Agreement:
5. Period and Stipulated date of completion as per Agreement:
6. Period for which extension of time already given:

Extension	Period	Reasons Stated earlier for seeking EoT
(a) 1 st extension		
(b) 2 nd extension		
(c) 3 rd extension		
(d) 4 th extension		
(e) 5 th extension		

9) Reasons for present extension with evidences

10) Period for which extension is applied for

It is understood that we will not claim any additional cost due to above extension of time and also understand that WAPCOS have rights to act in accordance with provisions in relevant clauses of Contract Agreement.

Dated.....

Contractor's Signature and Stamp

Annexure – VII

(On Rs. 100 non- Judicial Stamp Paper duly attested by Notary / Magistrate and will be signed by the person who sign the Original Agreement)

FORMAT FOR GUARANTEE BONDS

To Be Executed by Contractor for Structural Stability, Removal of Defects after completion of work

This Supplementary Agreement made this ____ day of _____ 20__ between (Name of Contractor firm & address) _____ (hereinafter called the CONTRACTOR / GUARANTOR of the one part) and the WAPCOS LIMITED, 5th floor, Kailash Building, 26, K. G. Marg, New Delhi (hereinafter called WAPCOS of the other part) for the Work **“Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”** in respect of Contract Agreement (hereinafter called the “Original Agreement” signed between(Name of Contractor firm) and WAPCOS on..... dated), whereby the contractor interalia, under look to render the work in the said contract recited structurally stable workmanship and use of sound materials.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said work will remain structurally stable and guarantee against faulty workmanship, manufacturing defects of materials etc.

NOW THE GUARANTOR hereby guarantee that work executed by him will remain structurally stable, for the minimum life of ten years, to be reckoned from the date of start of Defect Liability Period or Maintenance Period which ever is later, prescribed in the Contract.

The decision of the WAPCOS with regard to nature and cause of defects shall be final. During the period of guarantee the Guarantor shall make good all defects to the satisfaction of the WAPCOS calling upon him to rectify the defects, failing which the work shall be got done by the WAPCOS by some other agencies at the Guarantor’s cost and risk. The decision of the WAPCOS as to the cost payable by the Guarantor shall be final and binding.

That if the Guarantor fails to make good all the defects, commits breach thereunder then the guarantor will indemnify the Principal and his successor against all loss, damage cost expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this Supplementary Agreement. As to the amount of loss and / or damage and / or cost incurred by the WAPCOS the decision of the WAPCOS will be final and binding.

IN WITNES WHEREOF those presents have been executed by the GUARANTOR(Name and Designation who sign the Original Contract Agreement) on behalf of(Name of Contractor Firm) and WAPCOS on the day, month and year first above written.

SIGNED, SEALED AND DELIVERED

For and on behalf of the Contractor

For and on behalf of the WAPCOS

NAME _____

NAME _____

Designation

Designation

in the presence of witness:

in the presence of Witness

1 _____

1 _____

2 _____

2 _____

Annexure – VIII

(On Rs. 100 non- Judicial Stamp Paper duly attested by Notary / Magistrate and will be signed by the person who sign the Original Agreement))

FORMAT FOR GUARANTEE BONDS

To Be Executed by Contractor for Water Proofing after Completion of Work

This Supplementary Agreement made this ____ day of _____ 20__ between (Name of Contractor firm & address) _____ (hereinafter called the CONTRACTOR / GUARANTOR of the one part) and the WAPCOS LIMITED, 5th floor, Kailash Building, 26, K. G. Marg, New Delhi (hereinafter called WAPCOS of the other part) for the Work **“Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”** in respect of Contract Agreement (hereinafter called the “Original Agreement” signed between(Name of Contractor firm) and WAPCOS on..... dated), whereby the contractor inter alia, under look to render the buildings and structures in the contract recited completely water and leak-proof for Toilets, Shower , Under Ground Tank, Roof, Over Head Tank, Basement and any other allied areas of building.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said structures will remain water and leak-proof for **ten years** from the date after the Defect Liability Period or Maintenance Period which ever is later, prescribed in the contract. NOW THE GUARANTOR hereby guarantees that water proofing treatment given by him will render the structures completely leak proof and the minimum life of such water proofing treatment shall be **ten years** to be reckoned from the date after the Defect Liability Period / Maintenance Period which ever is later, prescribed in the contract.

Provided that the Guarantor will not be responsible for the leakage caused by earthquake or structural defects or misuse of roof or alteration and for such purpose:

- a. Misuse of roof shall mean any operation which will damage proofing treatment, like chopping of firewood and things of the same nature which might cause damage to the roof.
- b. Alteration shall mean construction of an additional storey or a part of the roof or construction adjoining to existing roof whereby proofing treatment is removed in parts.
- c. The decision of the Principal Employer with regard to cause of leakage/seepage shall be final.

During this period of guarantee the Guarantor shall make good all defects and in case of any defect being found, render the building water proof to the satisfaction of the Principal Employer at his cost and shall commence the work for the rectification within seven days from the date of issue of the notice from the Principal Employer calling upon him to rectify the defects failing which the work shall be done by the Principal Employer by some other agency at the GUARANTOR’s risk and cost. The decision of the Principal Employer as to the cost payable by the Guarantor shall be final and binding. That if Guarantor fails to make good all defects or commits breach there under then the Guarantor will indemnify the principal and his successors against all loss, damage, cost expense otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this Supplementary Agreement. As to the amount of loss and/or damage and/or cost incurred by the Principal Employer the decision of the owner will be final and binding on the parties.

IN WITNES WHEREOF those presents have been executed by the GUARANTOR(Name and Designation who sign the Contract) on behalf of(Name of Contractor Firm) and Principal Employer on the day, month and year first above written.

SIGNED, SEALED AND DELIVERED

For and on behalf of the Contractor	For and on behalf of the Principal Employer/Employer
--	---

NAME _____
Designation _____

in the presence of witness:

1 _____
2 _____

NAME _____
Designation _____

in the presence of Witness

1 _____
2 _____

ANNEXURE VIII (a)**FORM OF BANK GUARANTEE BOND FOR WATER PROOFING WORK**

1. In consideration of the(Name of Principal Employer) (hereinafter called "The Owner") having agreed to exempt..... (Hereinafter called the said contractor(s)) from the demand, under the terms and conditions of the Agreement No..... dated.....Made between and For the work of..... (hereinafter called "The said Agreement") security deposit for the due fulfillment by the said contractor(s) of the terms & conditions contained in the said Agreements for the work of Anti water proofing work on production of an irrevocable Bank Guarantee for (..... @ **0.5% of tendered value excluding GST**) for ten years we (Indicate the name of the bank) (Hereinafter referred to as "the Bank) hereby undertake to pay to the Owner an amount not exceeding Rs.(Rupeesonly) on demand by the Owner
2. We..... (indicate the name of the bank) do hereby undertake to pay the amounts due and payable under this Guarantee without any demure, merely on a demand from Principal Employer stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under the Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.(Rupeesonly).
3. We..... (indicate the name of the bank) further undertake to pay to Principal Employer any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.
The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s) shall have no claim against us for making such payment.
4. We..... (indicate the name of the Bank) further agree that the guarantee hereinafter contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of Principal Employer under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Principal Employer certified that the terms and condition of the said agreement have been fully and properly carried out by the said contractor(s) and accordingly discharges this guarantee.
5. We..... (indicate name of the bank) further agree with Principal Employer that Principal Employer shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by Principal Employer against the said contractor(s) and to for bear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractors(s) or for any bearance, act of commission of the part of Principal Employer or any indulgence by Principal Employer to the said contractor(s) or by any such matter of thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of Bank or the contractor(s).

7. We..... (indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of Principal Employer in writing
8. This guarantee shall be valid upto unless extended on demand by Principal Employer. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs.(Rupeesonly) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged

Dated this _____ day of _____ at.....

Authorized Signatory of

Bank

Signature

Signature

Name.....

Name.....

Signature Code/ S.S no.

Signature Code/ S.S no.

Annexure – IX

(On Rs. 100 non- Judicial Stamp Paper duly attested by Notary / Magistrate)

FORMAT FOR GUARANTEE BONDS FOR ANTI-TERMITE TREATMENT FOR WORKS
To Be Executed by Contractor for Anti Termite Treatment after Completion of Work

This Agreement made on this ____ day of _____ 20__ between _____ (Name of Contractor firm & address) _____ (hereinafter called the CONTRACTOR / GUARANTOR of the one part) and the _____ (hereinafter called Principal Employer/Employer of the other part) for Anti Termite Treatment Works for **“Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”**

WHEREAS This Agreement is Supplementary, to a Contract (hereinafter called the Contract) Contract no. _____ dated _____ and made between the _____ (Name of Contractor) and WAPCOS LIMITED, 5th floor, Kailash Building, 26, K. G. Marg, New Delhi, whereby the contractor, inter alia, undertook to render the wooden work in the said contract recited completely Termite proof.

THE GUARANTOR hereby guarantee that the anti-termite treatment given by him will render the wooden works completely Termite proof and the minimum life of such Anti-Termite treatment shall be five years to be reckoned from the from the date after the Defect Liability Period or Maintenance Period which ever is later, prescribed in the contract.

During the period of guarantee the Guarantor shall make good all defects and in case of any defects being found render the wooden works termite proof to the satisfaction of the Principal Employer at his cost and shall commence the work for such rectification within seven days from the date of issue of notice from the Principal Employer calling upon him to rectify the defects, failing which the work shall be got done by the Principal Employer through some other Agency at the Guarantor’s cost and risk. The decision of the Principal Employer as to the cost payable by the Guarantor shall be final and binding.

That if the guarantor fails to execute the Anti-termite works, or commits breach thereunder then the guarantor will indemnify the Principal and his successor against all loss, damage, cost of expenses or otherwise which may be incurred by him by reason of any of any default on the part of the GUARANTOR in performance and observance of this Supplementary Agreement. As to the amount of loss and / or cost incurred by the Principal Employer on the decision of the Principal Employer will be final and binding.

IN WITNES WHEREOF those presents have been executed by the GUARANTOR(Name and Designation who sign the Contract) on behalf of(Name of Contractor Firm) and Principal Employer on the day, month and year first above written.

SIGNED, SEALED AND DELIVERED

For and on behalf of the Contractor	For and on behalf of the Principal Employer/Employer
--	---

NAME _____
 Designation _____

NAME _____
 Designation _____

in the presence of witness:

in the presence of Witness

1 _____

1 _____

2 _____

2 _____

ANNEXURE – X**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 upto 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 defence 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. (100ft.) 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 borewell, 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 borewell, 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 borewell 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 eyeshields.
 - (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 atleast 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.

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:-

- (a) No paint containing lead or lead products shall be used except in the form of paste or readymade paint.
 - (b) 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.
 - (c) 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 equipments 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.

ANNEXURE – XI**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 equipments :-

- 1) 6 small sterilised dressings.
- 2) 3 medium size sterilised dressings.
- 3) 3 large size sterilised dressings.
- 4) 3 large sterilised burn dressings.
- 5) 1 (30 ml.) bottle containing a two per cent alcoholic solution of iodine.
- 6) 1 (30 ml.) bottle containing salvolatile 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 equipments.

- 1) 12 small sterilised dressings.
- 2) 6 medium size sterilised dressings.
- 3) 6 large size sterilised dressings.
- 4) 6 large size sterilised burn dressings.
- 5) 6 (15 gms.) packets sterilised cotton wool.
- 6) 6.1 (60 ml.) bottle containing a two per cent alcoholic solution iodine.
- 7) 1 (60 ml.) bottle containing salvolatile 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. WASHING FACILITIES

- (i) In every work place adequate and suitable facilities for washing shall be provided and maintained for the use of contract labour employed therein.
- (ii) Separate and adequate cleaning facilities shall be provided for the use of male and female workers.
- (iii) Such facilities shall be conveniently accessible and shall be kept in clean and hygienic condition.

6. LATRINES AND URINALS

- (ii) Latrines shall be provided in every work place on the following scale namely :-
 - (a) Where female are employed, there shall be at least one latrine for every 25 females.
 - (b) Where males are employed, there shall be at least one latrine for every 25 males.
 Provided that, where the number of males or females exceeds 100, it shall be sufficient if there is one latrine for 25 males or females as the case may be upto the first 100, and one for every 50 thereafter.

- (iii) Every latrine shall be under cover and so partitioned off as to secure privacy, and shall have a proper door and fastenings.
- (iv) Construction of latrines: The inside walls shall be constructed of masonry or some suitable heat-resisting nonabsorbent materials and shall be cement washed inside and outside at least once a year, Latrines shall not be of a standard lower than borehole system.
- (v) (a) Where workers of both sexes are employed, there shall be displayed outside each block of latrine and urinal, a notice in the language understood by the majority of the workers "For Men only" or "For Women Only" as the case may be.
(b) The notice shall also bear the figure of a man or of a woman, as the case may be.
- (vi) There shall be at least one urinal for male workers upto 50 and one for female workers upto fifty employed at a time, provided that where the number of male or female workmen, as the case may be exceeds 500, it shall be sufficient if there is one urinal for every 50 males or females upto the first 500 and one for every 100 or part thereafter.
- (vii) (a) The latrines and urinals shall be adequately lighted and shall be maintained in a clean and sanitary condition at all times.
(b) Latrines and urinals other than those connected with a flush sewage system shall comply with the requirements of the Public Health Authorities.
- (viii) Water shall be provided by means of tap or otherwise so as to be conveniently accessible in or near the latrines and urinals.
- (ix) Disposal of excreta: - Unless otherwise arranged for by the local sanitary authority, arrangements for proper disposal of excreta by incineration at the work place shall be made by means of a suitable incinerator. Alternately excreta may be disposed of by putting a layer of night soil at the bottom of a pucca tank prepared for the purpose and covering it with a 15 cm. layer of waste or refuse and then covering it with a layer of earth for a fortnight (when it will turn to manure).
- (x) The contractor shall at his own expense, carry out all instructions issued to him by the Engineer-in-Charge to effect proper disposal of night soil and other conservancy work in respect of the contractor's workmen or employees on the site. The contractor shall be responsible for payment of any charges which may be levied by Municipal or Cantonment Authority for execution of such on his behalf.

7. PROVISION OF SHELTER DURING REST

At every place there shall be provided, free of cost, four suitable sheds, two for meals and the other two for rest separately for the use of men and women labour. The height of each shelter shall not be less than 3 metres (10 ft.) from the floor level to the lowest part of the roof. These shall be kept clean and the space provided shall be on the basis of 0.6 sqm (6 sft) per head. Provided that the Engineer-in-Charge may permit subject to his satisfaction, a portion of the building under construction or other alternative accommodation to be used for the purpose.

8. CRECHES

- (i) At every work place, at which 20 or more women worker are ordinarily employed, there shall be provided two rooms of reasonable dimensions for the use of their children under the age of six years. One room shall be used as a play room for the children and the other as their bedroom. The rooms shall be constructed with specifications as per clause 19H (ii) a,b & c.
- (ii) The rooms shall be provided with suitable and sufficient openings for light and ventilation. There shall be adequate provision of sweepers to keep the places clean.
- (iii) The contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the bed room.
- (iv) The contractor shall provide one ayaa to look after the children in the creche when the number of women workers does not exceed 50 and two when the number of women workers exceed 50.
- (v) The use of the rooms earmarked as creches shall be restricted to children, their attendants and mothers of the children.

9. CANTEENS

- a. In every work place where the work regarding the employment of contract labour is likely to continue for six months and where in contract labour numbering one hundred or more are ordinarily employed, an adequate canteen shall be provided by the contractor for the use of such contract labour.
- b. The canteen shall be maintained by the contractor in an efficient manner.
- c. The canteen shall consist of at least a dining hall, kitchen, storeroom, pantry and washing places separately for workers and utensils.
- d. The canteen shall be sufficiently lighted at all times when any person has access to it.
- e. The floor shall be made of smooth and impervious materials and inside walls shall be limewashed or colour washed at least once in each year.
Provided that the inside walls of the kitchen shall be lime-washed every four months.
- f. The premises of the canteen shall be maintained in a clean and sanitary condition.
- g. Waste water shall be carried away in suitable covered drains and shall not be allowed to accumulate so as to cause a nuisance.
- h. Suitable arrangements shall be made for the collection and disposal of garbage.
- i. The dining hall shall accommodate at a time 30 per cent of the contract labour working at a time.
- j. The floor area of the dining hall, excluding the area occupied by the service counter and any furniture except tables and chairs shall not be less than one square metre (10 sft) per diner to be accommodated as prescribed in sub-Rule 9.
- k. (a) A portion of the dining hall and service counter shall be partitioned off and reserved for women workers in proportion to their number.
(b) Washing places for women shall be separate and screened to secure privacy.
- l. Sufficient tables stools, chair or benches shall be available for the number of diners to be accommodated as prescribed in sub-Rule 9.
- m. (a) 1. There shall be provided and maintained sufficient utensils crockery, furniture and any other equipments necessary for the efficient running of the canteen.
2. The furniture utensils and other equipment shall be maintained in a clean and hygienic condition.
(b) 1. Suitable clean clothes for the employees serving in the canteen shall be provided and maintained.
2. A service counter, if provided, shall have top of smooth and impervious material.
3. Suitable facilities including an adequate supply of hot water shall be provided for the cleaning of utensils and equipments.
- n. The food stuffs and other items to be served in the canteen shall be in conformity with the normal habits of the contract labour.
- o. The charges for food stuffs, beverages and any other items served in the canteen shall be based on 'No profit, No loss' and shall be conspicuously displayed in the canteen.
- p. In arriving at the price of foodstuffs, and other article served in the canteen, the following items shall not be taken into consideration as expenditure namely:-
 - (a) The rent of land and building.
 - (b) The depreciation and maintenance charges for the building and equipment provided for the canteen.
 - (c) The cost of purchase, repairs and replacement of equipment including furniture, crockery, cutlery and utensils.
 - (d) The water charges and other charges incurred for lighting and ventilation
 - (e) The interest and amounts spent on the provision and maintenance of equipment provided for the canteen.
- q. The accounts pertaining to the canteen shall be audited once every 12 months by registered accountants and auditors.

10. ANTI-MALARIAL PRECAUTIONS

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

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

12. 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.

ANNEXURE-XII**Contractor's Labour Regulations****1. GENERAL**

These Labour regulations shall be followed by the Contractor.

2. DEFINITIONS

- (i) Workman means any person employed by contractor directly or indirectly through a subcontractor with or without the knowledge of the WAPCOS to do any skilled, semiskilled or unskilled manual, supervisory, technical or clerical work for hire or reward, whether the terms of employment are expressed or implied but does not include any person :-
- (a) Who is employed mainly in a managerial or administrative capacity : or
 - (b) Who, being employed in a supervisory capacity draws wages exceeding five hundred rupees per mensem or exercises either by the nature of the duties attached to the office or by reason of powers vested in him, functions mainly of managerial nature: or
 - (c) Who is an out worker, that is to say, person to whom any article or materials are given out by or on behalf of the Employer/ Principal Employers to be made up cleaned, washed, altered, ornamental finished, repaired adopted or otherwise processed for sale for the purpose of the trade or business of the Employer/ Principal Employers and the process is to be carried out either in the home of the out worker or in some other premises, not being premises under the control and management of the principal employer.
- (i) No person below the age of 14 years shall be employed to act as a workman.
 - (ii) Fair Wages means wages whether for time or piece work fixed and notified under the provisions of the Minimum Wages Act from time to time.
 - (iii) Contractors shall include every person who undertakes to produce a given result other than a mere supply of goods or articles of manufacture through contract labour or who supplies contract labour for any work and includes a subcontractor.
 - (iv) Wages shall have the same meaning as defined in the Payment of Wages Act.
3. (i) Normally working hours of an adult employee should not exceed 9 hours a day. The working day shall be so arranged that inclusive of interval for rest, if any, it shall not spread over more than 12 hours on any day.
- (ii) When an adult worker is made to work for more than 9 hours on any day or for more than 48 hours in any week, he shall be paid over time for the extra hours put in by him at double the ordinary rate of wages.
 - (iii) Every worker shall be given a weekly holiday normally on a Sunday, in accordance with the provisions of the Minimum Wages (Central) Rules 1960 as amended from time to time irrespective of whether such worker is governed by the Minimum Wages Act or not.
 - (iv) Where the minimum wages prescribed by the Government under the Minimum Wages Act are not inclusive of the wages for the weekly day of rest, the worker shall be entitled to rest day wages at the rate applicable to the next preceding day, provided he has worked under the same contractor for a continuous period of not less than 6 days.

- (v) Where a contractor is permitted by the Engineer-in-Charge to allow a worker to work on a normal weekly holiday, he shall grant a substituted holiday to him for the whole day on one of the five days immediately before or after the normal weekly holiday and pay wages to such worker for the work performed on the normal weekly holiday at overtime rate.

4. DISPLAY OF NOTICE REGARDING WAGES ETC.

The contractor shall before he commences his work on contract, display and correctly maintain and continue to display and correctly maintain in a clear and legible condition in conspicuous places on the work, notices in English and in the local Indian languages spoken by the majority of the workers giving the minimum rates of wages fixed under Minimum Wages Act, the actual wages being paid, the hours of work for which such wage are earned, wages periods, dates of payments of wages and other relevant information as per Appendix 'III'.

5. PAYMENT OF WAGES

- (i) The contractor shall fix wage periods in respect of which wages shall be payable.
- (ii) No wage period shall exceed one month.
- (iii) The wages of every person employed as contract labour in an establishment or by a contractor where less than one thousand such persons are employed shall be paid before the expiry of seventh day and in other cases before the expiry of tenth day after the last day of the wage period in respect of which the wages are payable.
- (iv) Where the employment of any worker is terminated by or on behalf of the contractor the wages earned by him shall be paid before the expiry of the second working day from the date on which his employment is terminated.
- (v) All payment of wages shall be made on a working day at the work premises and during the working time and on a date notified in advance and in case the work is completed before the expiry of the wage period, final payment shall be made within 48 hours of the last working day.
- (vi) Wages due to every worker shall be paid to him direct by contractor through Bank or ECS or online transfer to his bank account.
- (vii) All wages shall be paid through Bank or ECS or online transfer.
- (viii) Wages shall be paid without any deductions of any kind except those specified by the Central Government by general or special order in this behalf or permissible under the Payment of Wages Act 1956.
- (ix) A notice showing the wages period and the place and time of disbursement of wages shall be displayed at the place of work and a copy sent by the contractor to the Engineer-in-Charge under acknowledgment.
- (x) It shall be the duty of the contractor to ensure the disbursement of wages through bank account of labour.
- (xi) The contractor shall obtain from the Junior Engineer or any other authorised representative of the Engineer- in-Charge as the case may be, a certificate under his signature at the end of the entries in the "Register of Wages" or the "Wage-cum-Muster Roll" as the case may be in the following form:-

6. FINES AND DEDUCTIONS WHICH MAY BE MADE FROM WAGES

- i) The wages of a worker shall be paid to him without any deduction of any kind except the following:-
 - a. Fines
 - b. Deductions for absence from duty i.e. from the place or the places where by the terms of his employment he is required to work. The amount of deduction shall be in proportion to the period for which he was absent.

- c. Deduction for damage to or loss of goods expressly entrusted to the employed person for custody or for loss of money or any other deduction which he is required to account, where such damage or loss is directly attributable to his neglect or default.
 - d. Deduction for recovery of advances or for adjustment of overpayment of wages, advances granted shall be entered in a register.
 - e. Any other deduction which the Central Government may from time to time allow.
- ii) No fines should be imposed on any worker save in respect of such acts and omissions on his part as have been approved of by the Chief Labour Commissioner.
Note :- An approved list of Acts and Omissions for which fines can be imposed is enclosed at Appendix-X
 - iii) No fine shall be imposed on a worker and no deduction for damage or loss shall be made from his wages until the worker has been given an opportunity of showing cause against such fines or deductions.
 - iv) The total amount of fine which may be imposed in any one wage period on a worker shall not exceed an amount equal to three paise in a rupee of the total wages, payable to him in respect of that wage period.
 - v) No fine imposed on any worker shall be recovered from him by instalment, or after the expiry of sixty days from the date on which it was imposed.
 - vi) Every fine shall be deemed to have been imposed on the day of the act or omission in respect of which it was imposed.

7. LABOUR RECORDS

- i) The contractor shall maintain a Register of persons employed on work on contract in Form XIII of the CL (R&A) Central Rules 1971 (Appendix IV)
- ii) The contractor shall maintain a Muster Roll register in respect of all workmen employed by him on the work under Contract in Form XVI of the CL (R&A) Rules 1971 (Appendix V).
- iii) The contractor shall maintain a Wage Register in respect of all workmen employed by him on the work under contract in Form XVII of the CL (R&A) Rules 1971 (Appendix VI).
- iv) Register of accident - The contractor shall maintain a register of accidents in such form as may be convenient at the work place but the same shall include the following particulars:
 - a. Full particulars of the labourers who met with accident.
 - b. Rate of Wages.
 - c. Sex
 - d. Age
 - e. Nature of accident and cause of accident.
 - f. Time and date of accident.
 - g. Date and time when admitted in Hospital,
 - h. Date of discharge from the Hospital.
 - i. Period of treatment and result of treatment.
 - j. Percentage of loss of earning capacity and disability as assessed by Medical Officer.
 - k. Claim required to be paid under Workmen's Compensation Act.
 - l. Date of payment of compensation.
 - m. Amount paid with details of the person to whom the same was paid.
 - n. Authority by whom the compensation was assessed.
 - o. Remarks
- v) The contractor shall maintain a Register of Fines in the Form XII of the CL (R&A) Rules 1971 (Appendix-XI) The contractor shall display in a good condition and in a conspicuous place of work the approved list of acts and omissions for which fines can be imposed (Appendix-X)

- vi) The contractor shall maintain a Register of deductions for damage or loss in Form XX of the CL (R&A) Rules 1971 (Appendix-XII)
- vii) The contractor shall maintain a Register of Advances in Form XXIII of the CL (R&A) Rules 1971 (Appendix-XIII)
- viii) The contractor shall maintain a Register of Overtime in Form XXIII of the CL (R&A) Rules 1971 (Appendix-XIV)

8. ATTENDANCE CARD-CUM-WAGE SLIP

- i) The contractor shall issue an Attendance card-cum-wage slip to each workman employed by him in the specimen form at (Appendix-VII)
- ii) The card shall be valid for each wage period.
- iii) The contractor shall mark the attendance of each workman on the card twice each day, once at the commencement of the day and again after the rest interval, before he actually starts work.
- iv) The card shall remain in possession of the worker during the wage period under reference.
- v) The contractor shall complete the wage slip portion on the reverse of the card at least a day prior to the disbursement of wages in respect of the wage period under reference.
- vi) The contractor shall obtain the signature or thumb impression of the worker on the wage slip at the time of disbursement of wages and retain the card with himself.

9. EMPLOYMENT CARD

The contractor shall issue an Employment Card in Form XIV of the CL (R&A) Central Rules 1971 to each worker within three days of the employment of the worker (Appendix-VIII).

10. SERVICE CERTIFICATE

On termination of employment for any reason whatsoever the contractor shall issue to the workman whose services have been terminated, a Service certificate in Form XV of the CL (R&A) Central Rules 1971 (Appendix-IX)

11. PRESERVATION OF LABOUR RECORDS

All records required to be maintained under Regulations Nos. 6 & 7 shall be preserved in original for a period of three years from the date of last entries made in them and shall be made available for inspection by the Engineer-in-Charge or Labour Officer or any other officers authorised by the Ministry of Urban Development in this behalf.

12. POWER OF LABOUR OFFICER TO MAKE INVESTIGATIONS OR ENQUIRY

The Labour Officer or any person authorised by Central Government on their behalf shall have power to make enquires with a view to ascertaining and enforcing due and proper observance of Fair Wage Clauses and the Provisions of these Regulations. He shall investigate into any complaint regarding the default made by the contractor or subcontractor in regard to such provision.

13. REPORT OF LABOUR OFFICER

The Labour Officer or other persons authorised as aforesaid shall submit a report of result of his investigation or enquiry to the Engineer-in-charge concerned indicating the extent, if any, to which the default has been committed with a note that necessary deductions from the contractor's bill be made and the wages and other dues be paid to the labourers concerned. In case an appeal is made by the contractor under Clause 13 of these regulations, actual payment to labourers will be made by the Engineer-in-charge after the Competent Authority of WAPCOS has given his decision on such appeal.

- (i) The Engineer-in-charge shall arrange payments to the labour concerned within 45 days from the receipt of the report from the Labour Officer as the case may be.

14. APPEAL AGAINST THE DECISION OF LABOUR OFFICER

Any person aggrieved by the decision and recommendations of the Labour Officer or other person so authorised may appeal against such decision to the Engineer-in-charge concerned within 30 days from the date of decision, forwarding simultaneously a copy of his appeal to the Engineer-in-charge concerned but subject to such appeal, the decision of the officer shall be final and binding upon the contractor.

15. PROHIBITION REGARDING REPRESENTATION THROUGH LAWYER

- (i) A workman shall be entitled to be represented in any investigation or enquiry under these regulations by:-
 - a. An officer of a registered trade union of which he is a member.
 - b. An officer of a federation of trade unions to which the trade union referred to in clause (a) is affiliated.
 - c. Where the employer is not a member of any registered trade union, by an officer of a registered trade union, connected with the industry in which the worker is employed or by any other workman employed in the industry in which the worker is employed.
- (ii) An employer shall be entitled to be represented in any investigation or enquiry under these regulations by :-
 - a. An officer of an association of employers of which he is a member.
 - b. An officer of a federation of associations of employers to which association referred to in clause (a) is affiliated.
 - c. Where the employers is not a member of any association of employers, by an officer of association of employer connected with the industry in which the employer is engaged or by any other employer, engaged in the industry in which the employer is engaged.
- (iii) No party shall be entitled to be represented by a legal practitioner in any investigation or enquiry under these regulations.

16. INSPECTION OF BOOKS AND SLIPS

The contractor shall allow inspection of all the prescribed labour records to any of his workers or to his agent at a convenient time and place after due notice is received or to the Labour Officer or any other person, authorised by the Central Government on his behalf.

17. SUBMISSIONS OF RETURNS

The contractor shall submit periodical returns as may be specified from time to time.

18. AMENDMENTS

The Central Government may from time to time add to or amend the regulations and on any question as to the application/Interpretation or effect of those regulations the decision of the Engineer-in-charge concerned shall be final.

NOTE: APPENDICES mentioned in above "Contractor's Labour Regulation" will be as per the General Conditions of Contract-2020 – Construction Works of CPWD.

ANNEXURE – XIII

NO CLAIM CERTIFICATE

Address to :
The Engineer- in-Charge
WAPCOS Ltd.,

Sub: “Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”: Reg. No Claim Certificate

Ref: 1. Work Order no.:-
2. Contract Agreement no.:-

Sir,

We have submitted -----nos. of bills including final bill total gross amounting for the subjected project of Rs. -----/- (Rupees ----- only).

However, following payment are due with Employer:

1. Balance Net amount (if any) of Rs. -----/- against RA Bill No.-----
2. Balance GST (if any) of Rs. -----/- against RA Bill No.-----
3. Performance Guarantee no. -----dated ----- amounting to Rs.-----
-----/- issued by -----Bank which will be released by Employer as per tender conditions.
4. Security Deposit amounting to Rs.-----/- which will be released by Employer as per tender conditions

We declare unequivocally that the above payments are full and final amount for execution of subjected works against referred Contract Agreement with WAPCOS. We will not raise any further claim and have no dispute of any description whatsoever, regarding the amounts worked out as payable to us and that we shall continue to be bound by the terms and conditions of the Contract Agreement, as regards Performance of the Contract.

Yours faithfully,

Date:

(Signature, name and designation
of the Authorized signatory)

Place:

Name and seal of Bidder

SECTION – VII

SCOPE OF WORK

SECTION-VII
SCOPE OF WORK

1.0 INTRODUCTION

WAPCOS Limited, as Project Management Consultant on behalf of Chaudhary Bansi Lal University, Bhiwani (CBLU), Bhiwani invites Item Rate bid from interested Bidders for the “Construction of Girls Hostel and VC residence at Chaudhary Bansi Lal University, Prem Nagar, Bhiwani”, herein after referred to as the Project /Work. The work broadly consist construction of Girls Hostel (G+3) along with Warden Residence (G), Boundary wall, Guard Room (G), VC residence (G+1) and External services and development works etc. as per drawings and BoQ.

2.0 NOC'S / APPROVALS/ CLEARANCE FROM LOCAL BODIES/ AUTHORITIES

All the necessary Statuary Approvals/ NOCs/ Clearances such as Forest NoC, if necessary; approval of local Govt. body for architectural plans; Approval of ground water board, if necessary; clearance of height from concerned authority, if any; Fire NoC/Fire Safety Certificate, Lift NoC, DG Sets, Electrical connection/ load enhancement if any; which are required from any Govt. Department / body, before start of the work / during execution of work / after execution of work & before handing over the project, are the responsibility of the Contractor and are in the scope of work of the Contractor.

If any modification/revision is required in all the above mentioned Statuary Approvals/ NOCs/ Clearances, before start of the work / during the work / after execution of work are the responsibility of the Contractor and are in the scope of work of the Contractor. The fee deposited for getting approvals, shall be deposited by the Contractor to the concerned Department / Authorities and will be reimbursable to the Contractor on producing of original receipt of deposited fee and no extra cost for the same shall be claimed by the contractor.

3.0 TOPOGRAPHICAL SURVEY

The detail Topographical Survey work (Pre and Post) of entire site shall be carried out by the Contractor at his own cost before start of construction. The measurement of earth works, if any, will be done on the basis of Pre and post Survey after deriving the cross section in Auto-Cad.

4.0 REFERENCE TO THE STANDARD CODES OF PRACTICE

All Standards, Technical Specifications and Codes of practice referred to shall be latest editions including all applicable official amendments and revisions. The Contractor shall make available at site hard copies of all latest editions of relevant codes and specifications such as Haryana PWD Specifications, CPWD Specifications, Specifications of Haryana Schedule Rates (2021) and relevant/ applicable BIS codes.

Wherever Indian Standards do not cover some particular aspects of design/ construction, relevant International Standards shall be referred to. The Contractor shall make available at site such standard codes of practice.

5.0 LIST OF MAKE FOR CIVIL WORKS

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/ CBLU, the Contractor can use the alternative makes only BIS marked materials of equivalent reputed brand. Non BIS marked materials may be permitted by the WAPCOS only when BIS marked materials are not manufactured. If any make / brand of the “Material / Article” is not mentioned in following make list, then standard top 5 Manufacturers/ Agencies /Brand Make for that “ Material / Agency” will be considered for approval by WAPCOS / CBLU.

CIVIL WORKS

SN	Item	Manufacturers Name
1	Ordinary Portland Cement Grade 43/53, Portland Pozzolona Cement	JK, ACC, ULTRATECH, JAYPEE, SHREE, AMBUJA
2	Ready Mix Concrete	FROM THE RMC PLANT OF JK, ACC, LAFARGE, ULTRATECH, JAYPEE, SHREE, AMBUJA, RDC CONCRETE
3	White Cement	JK, BIRLA, ACC, JAYPEE, AMBUJA
4	Reinforcement Steel	TATA , SAIL, RINL, JINDAL, JSW STEEL SHYAM
5	HDHMR Board/ Pre laminated HDHMR Board	ARCHIDPLY, CENTURY, ACTION TESA, DURO
6	Plywood, MDF Board, Board	ARCHIDPLY, CENTURY, GREENPLY, MERINO, DURO
7	Laminates	ARCHIDPLY, CENTURY, GREENLAM, MERINO
9	Hinge/Sliding Channel/Lock/Brass Fitting/ Floor Springs, Glass fittings	DORSET, DORMA, OZONE, HAFELE, KICH
7	Wall Putty	JK, BIRLA, ACRO, BERGER
8	Structural Steel/Tubular Truss	TATA , SAIL, RINL, JINDAL, APL APOLLO
9	Paint/Polish/ Primer/ Water Proofing Paint	BERGER, ASIAN, DULUX, NEROLAC, ICI
10	Powder Coating	AKZONOBEL, ASIAN
11	Epoxy Paint/ Water Proofing Works	FIBREX/BASF/ SIKA/FOSROC/ DR. FIXIT
12	Floor & Wall Tile(Vitrified & Ceramic)	KAJARIA, ORIENTBELL ,SOMANY, NITCO
13	Glass / Mirror	ASAHI, SAINT GOBAIN, PILKINGTON, MODI GUARD
14	Construction/Waterproofing Chemical, Admixtures	FOSROC, SIKA, ULTRACON, PIDILITE, ULTRATECH, DR. FIXIT
15	Adhesive	PIDILITE, JIVANJOR, ARALDITE
16	Anti Termite	VAM ORGANICS, PYRAMID, TERMISOL
17	Grid False Ceiling & Wall Partition	ARMSTRONG, DEXUNE, NEW AGE, HUNTER DOUGLAS, SAINT GOBAIN
18	Gypsum Wall Partition/Ceiling	BORAL, INDIA GYPSUM, GYPROC, SAINT GOBAIN
19	Flush Door	DURO, CENTURY, MERINO, ARCHIDPLY
20	Door Fittings & Fixtures	DORMA, OZONE, DORSET, EBCO, HAFELE, KICH
21	Glass/SS Handrail	DORMA, OZONE, KICH
22	Aluminium Sections	JINDAL, BHAROUKA, HINDALCO, PROFINE, KOEMMERLING

SN	Item	Manufacturers Name
23	XPS Insulation	OWENS CORNING
24	Glass Processing	GOLDPLUS, GSC
25	Modular Furniture	GODREJ, BP ERGO, FEATHERLITE, WIPRO
26	Veneer/Laminate	MERINO, DURO, GREEN, ARCHIDPLY
27	Signages	3M, XENON OR EQUIVALENT
28	uPVC Doors And Window	FENESTA, DECEUNINCK, ALUPLAST, AIS
29	Paver Block/Kerb Stone Of M30 Grade And 60 Mm Thick	NITCO,UNITILE, NIMCO OR EQUIVALENT
30	Fire Retardant Paint	NULLIFIER/SIGNUM/GODREJ/NIPPON/CARBOLINE
31	Firedoor	SUKRI, NAVAIR, DORMA
32	Fire Rated Glass	SCHOTT (GERMANY) AND EQUIVALENT
33	Pipes Related Works	REFRE MAKE LIST FOR PHE WORKS
34	Material for Stainless Steel (Grade 304) Railing	JINDAL, TATA, MONNET
35	ACP and HPL	ALUTUFF, ALUCOBOND, ALSTRONG, ALUDECOR, VIRGO
36	Reinforcement Coupler	SNTP, DEXTRA, MOMENT, LENTON
37	Expansion Joint	CS, BIZZAR, SANFIELD, VEXCOLT INTERNATIONAL
38	WTP	ION EXCHANGE, THERMAX, DEGREMONT
39	Glass Fiber Reinforcement Concrete	DALAL TILES, SHENISHA, BIRLA
40	Vertical Blinds	VISTA, MAC, HUNTER DOUGLAS, D' DECOR
41	Puf Panel	BNAL PREFABS PVT. LTD., METECHNO, SUCHI, TATA BLUESCOPE
42	ACP/HPL/MDF/CLADS	ALSTONE / ALUTECH/ ALSTRONG/ EUROBOND

ELECTRICAL WORKS

SN	Item	Manufacturers Name
1	Air Circuit Breaker	SCHNEIDER /SIEMENS/ L&T/ABB
2	Moulded Case Circuit Breaker With Rotary Operating Handle.	SCHNEIDER/ SIEMENS/ L&T/ ABB
3	Transformer / Compact Substation	ABB/ SCHNEIDER/ KRILOSKAR/ CROMPTON
4	Digital Meters	EL MEASURE / L&T/ CONSERVE/ TRINITY/ NEPTUNE DUCATI
5	Contactors, Timers	SCHNEIDER/ ABB/ L & T/ LEGRAND/ SIEMENS
6	Capacitors / Capacitor With Relay	SCHNEIDER/ EPCOS/ L & T
7	Voltmeter & Ammeter	CONZERVE/ ENERSOL/ HPL
8	Switch Gear	SCHNEIDER/ SIEMENS/ L&T/ ABB/ CROMPTON
9	Selector Switch	KAYCEE/ L & T
10	Current Transformer	MATRIX/AE/ C&S / G&M
11	Indicating Lamp	L & T/ SIEMENS/ AE
12	Protective Relays	ABB/ L & T /SIEMENS/SCHNEIDER / GE
13	Multi Functional Meter	L&T/ LEGREND/ CONZERV
14	APFC Relay (Microprocessor Based)	SYNTRON/ ENERCON/ L & T/ DUCATI/ SCHNEIDER
15	Batteries	EXIDE/AMAR RAJA/OKAYA/LUMINOUS

SN	Item	Manufacturers Name
16	Battery Charger	UPTRON/VOLTSTAT ELECTRONICS
17	L.T. / H.T. Cable	POLYCAB/ HAVELLS/ FINOLEX/ KEI
18	Dc Miniature Circuit Breaker	SCHNEIDER/SIEMENS/POLYCAB/ LEGRAND
19	Cable Lug (Tinned Copper)	DOWELLS/ MULTI/CAPITAL
20	Cable Gland	PEECO/ COMMET/ GRIPWELL/ POWER
21	Main L.T. Panel, Capacitor Panel & Distribution Panel	SCHNEIDER/ SIEMENS/ L&T/ ABB OR AUTHORIZED CHANNEL PARTNERS OF SCHNEIDER/ SIEMENS/ L&T/ ABB
22	Cable Tray / Raceway	PILCO/CTM ENGINEERS/KME/SLOTCO/STEELWAYS
23	Fire Extinguishers	ZENITH/MINIMAX/NEWAGE/ CEASE FIRE
24	Energy Analyzer Meter	CONZERVE/ELEMEASURE/ENERSOL
25	Voltmeter & Ammeter	CONZERVE/ ELMEASURE/ ENERSOL
26	Distribution Boards With Miniature Circuit Breakers, Rccb	HAGER/LEGRAND/ POLYCAB/L & T/ HAVELLS
27	PVC Insulated Copper Conductor Single Core Stranded Wires Of 650/1100 Volt Grade	HAVELLS/FINOLEX/POLYCAB
28	Telephone Tag Block	KRONE/ TVS R&M
29	PVC Conduit	BEC/AKG/POLYCAB/ RMCON/ ASTRAL/ FINOLEX
30	M.S. Conduit	BEC/AKG / RMCON/ JINDAL
31	Modular Switches & Sockets	LEGRAND/HAVELLS/POLYCAB/ ANCHOR
32	LV System Wire	SIEMENS/LEGRAND/ AMP/ HAVELLS/POLYCAB
33	TV/Telephone Outlet	SIEMENS/LEGRAND/ HAVELLS/POLYCAB
34	Data Outlet	SIEMENS/LEGRAND/ HAVELLS/POLYCAB
35	Data Rack	SIEMENS/APW/LEGRAND/ WIPRO
36	Light Fixture	PHILIPS/HAVELLS/POLYCAB/ WIPRO
37	Lamps	PHILIPS/ HAVELLS/ POLYCAB/ WIPRO
38	Ceiling Fan	ORIENT/HAVELLS/CROMPTON GREAVES/BAJAJ
39	Exhaust Fan With Louvers	ORIENT/HAVELLS/CROMPTON GREAVES/BAJAJ
40	Geyser	HAVELLS/ BAJAJ/V-GUARD/ A-O SMITH/ JAGUAR/ CROMPTON GREAVES
41	Fire Alarm System	NOTIFIER HONEYWELL/ SIEMENS/ TYCO/ EDWARDS/ AGNI
42	Presence Detector	HAGGER/LEGRAND/PHILIPS
43	RCC Hume Pipe For Electrical Works	ISI MARKED OF REPUTED COMPANY
44	Plc	SIEMENS/ALLEN BRADLEY
45	Telephone / Co Axial Wire	POLYCAB/FINOLEX/HAVELLS
46	Professional Led Panel	PANASONIC/ SAMSUNG/SONY
47	Public Address System	HONEYWELL/ BOSCH/TYCO/EDWARDS
48	D.G. Set (Engine)	CUMMINS/CATTERPILLAR/STAMFORD/KIRLOSKAR
49	D.G. Set (Alternator)	STAMFORD/ LERROYSOMMER/ CATTERPILLAR
50	D.G. Accoustic Enclosure	JAKSON/STERLING/CATTERPILLER/SUDHIR
51	H.T. Panel	SCHNEIDER/ SIEMENS/ L&T/ ABB OR AUTHORIZED CHANNEL PARTNERS OF SCHNEIDER/ SIEMENS/ L&T/ ABB
52	H.T. Termination Kit	RAYCHEM/DENSON
53	Smoke Detectors	NOTIFIER HONEYWELL/ TYCO/ SIEMENS CERBERUS-PRO/SHRACK
54	Heat Detectors	NOTIFIER HONEYWELL/ TYCO/ SIEMENS CERBERUS-PRO/SHRACK

SN	Item	Manufacturers Name
55	Manual Call Box	NOTIFIER HONEYWELL/ TYCO/ SIEMENS CERBERUS-PRO/SHRACK
56	Hooter/ Sounder	NOTIFIER HONEYWELL/ TYCO/ SIEMENS CERBERUS-PRO/SHRACK
57	Response Indicator	NOTIFIER HONEYWELL/ TYCO/ SIEMENS CERBERUS-PRO/SHRACK
58	Fire Panel	NOTIFIER HONEYWELL/ TYCO/ SIEMENS CERBERUS-PRO/SHRACK
59	Pa Amplifier	HONEYWELL/ BOSCH/HEINRICH/ATIES
60	Pa Speakers	HONEYWELL/ BOSCH/HEINRICH/ATIES
61	Line Matching Transformer	HONEYWELL/ BOSCH/HEINRICH/ATIES
62	Goose Neck Mike	HONEYWELL/ BOSCH/HEINRICH/ATIES
63	Inverter	TOPAZ INTERNATIONAL/ LUMINOUS/ HYTES/ SU-KAM/ MICROTECH
64	Camera With All Accessories	AXIS / INPULSE/ IDIS/ BOSCH/PELCO
65	Road Barrier	NICE/ MAGNETICS/ GODREJ/ GE
66	Card Reader	SENSORMATIC-USA/ MOTOROLA /HONEYWELL(XLS-3000)
67	Monitor	LG/ SAMSUNG/SONY
68	Multiplexer	SENSORMATIC OR EQUIVALENT
69	Sequencer	ALBA/ VANTAGE
70	Proximity Card	MOTOROLA/ HUGHES/ HONEYWELL/GE/SIEMENS/HID
71	Telephone Tag Block	CTM ENGG/SYSTIMAX/SCHNEIDER/PANDUIT
72	Telephone Cables	DELTON / SKYTONE/ CLIPSAL/ HAVELLS
73	Co-Axial Cables	FINOLEX/ HAVELLS/ POLYCAB
74	EPBX	ALKATEL/ SIEMENS/ NEC/ AVAYA/ PANASONIC
75	CCTV System	AXIS / IMPULSE/ IDIS/ BOSCH/ HONEYWELL /TYCO
76	Access Control System	HONEYWELL/ SIEMENS/SYRIS
77	Video Conference System	POLYCOM/SONY/SYSCO
78	Audio Processor	BOSE/BSS/CLEARONE
79	BMS Controller/ Software Central Control BMS Server	IBM/HP/DELL
80	Building Management System, Building Management Web Based Server Software, Programmable & Application Specifier Controller	SIEMENS/HONEYWELL EBI/TYCO / SCHNEIDER
81	Sensor & Field Devices Immersion Type Temperature Sensors, Flow Meter, Ultra Sonic Thermal Energy Meter , Outside T+Rh Sensor	SIEMENS/KELE/SAUTER RACE
82	Water Level Switches, Flame Proof Level Switches	KELE/ VESKLER/FLIPRO
83	Dc Voltage Transducer, Current Relay	KELE/SITU/OMICRON
84	Room Type Temp. Sensor, Co2 Sensor, Ambient Temp. Sensor	SIEMENS/KELE/TRANE
85	Co Sensor	DWYER/KALE/MSR GERMAN
86	Pressure Transmitter	SIEMENS/TRANE/OMICRON
87	Differential Pressure Sensor	SIEMENS/TRANE/VESKLER

SN	Item	Manufacturers Name
88	Fire Suppression System	SIEMENS/KIDDE/TYCO
89	High Mast And Poles	BAJAJ ELECTRICALS / MY FAIR LIGHT/ PARUTHI ENGINEERING
90	Service/ Passenger Elevators	KONE/SCHINDLER/OTIS
91	UPS	SCHNIDER, SOCOMEC, DELTA, NUMERIC

PHE WORKS

SN	Item	Manufacturers Name
1.	Vitreous China And Fireclay Sanitary ware 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 / 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/AQUAMET
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/ Full 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, HEPSCO, 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

SN	Item	Manufacturers Name
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
36	DI Pipe Fittings	JINDAL/ PRINCE/ SUPREME/ PRAKASH/ FINOLEX

FIRE FIGHTING & AIR CONDITONING WORKS

SN	Materials	Brand Name
1.	M.S. Pipes	JINDAL HISSAR / PRAKASH SURYA/TATA
2.	G.I. Pipes	JINDAL HISSAR / PRAKASH SURYA/ TATA
3.	Forged Steel Fittings	DRP / SS / VS /METLINE/TRUE FORGE
4.	Gun Metal Ball Valves	ZOLOTO / LEADER / AIP/SANT/CASTLE
5.	Butterfly Valves	ZOLOTO / LEADER / AIP/KSB/SKS
6.	Non-Return Valves.	ZOLOTO / LEADER / AIP
7.	Fire Hydrant Landing Valves, Fire Brigade Connection (Isi Marked)	MINIMAX / NEWAGE / FLAME GUARD
8.	Other Valves	ZOLOTO / LEADER / AIP/ SANT/ KRILOSKAR / AUDCO/ SKS
9.	Fire Hose Pipes, First Aid Hose Reel (Isi Marked)	MINIMAX / NEWAGE / PADMINI / FLAME GUARD/MITRA
10.	Branch Pipe, Nozzle And Couplings	MINIMAX / NEWAGE/ FLAME GUARD
11.	Fire Extinguishers	MINIMAX / NEWAGE/ FLAME GUARD
12.	Pumps	KIRLOSKAR /CROPMTON GREAVES/ MATHER + PLATT
13.	Motors	KIRLOSKAR / SIEMENS /CROMPTON / ABB
14.	Starters	GE / L & T / CONTROL & SWITCHGEAR
15.	Single Phasing Preventor / Over Load Protection Unit	SIEMENS / MINILEC
16.	Pressure Switch	DANFOSS / SWIZER
17.	Pressure Gauge	H. GURE / FIEBIG
18.	Relays	L & T / SIEMENS
19.	Contractors	L & T / SIEMENS
20.	Control Cable	SKYTONE / POLYCAB / GRANDLAY / HAVELLS
21.	Electrical Panel	DIAMOND ELECTRICALS / SPC ELECTROTECH PVT. LTD. / NEPTUNE /
22.	Moulded Case Circuit Breakers	L & T / SIEMENS / SCHNEIDER
23.	Fuse Disconnecter Switch / Switch Fuse Units	L & T / SIEMENS / ABB / INDO ASIAN SCHNEIDER / POLYCAB/ CONTROL & SWITCH GEAR.
24.	Hrc Fuses	L & T / SIEMENS / SCHNEIDER
25.	Ammeter, Voltmeter	UNIVERSAL

SN	Materials	Brand Name
26.	Selector Switch, Push Button Switch / Emergency Switch	L & T /SIEMENS / SCHNEIDER
27.	1.1 Kv Lt Cables (Isi Marked)	FINOLEX / POLYCAB / HAVELLS
28.	Pipe Coat	IWL LIMITED / STP / PYPKOTE
29.	Fasteners	HILTI / INTELLOTECH/ FISHER/ TRUTEK
30	Fire Survival Cable	POLYCAB/ HAVELS/ BATRA HENLAY
30.	Suspenders	INTELLOTECH / CAMRY

AIR CONDITIONING WORKS

S.No.	Items	Standard Makes
1	Air Cooled AC Units/ Split Acs	CARRIER/ HITACHI/DAIKIN/BLUE STAR
2	DX Type AHU	ZECO / EDGTECH / VTS / MONASH
3	Closed Cell Electrometric Pipe Insulation	ARMAFLEX/SUPREME/A-FLEX/K-FLEX
4	Refrigerant Piping	MANDEV/TOTAL LINE/ RAJCO/METUBE
5	Duct Acoustic Insulation	UP TWIGA/ OWENS CORNING
6	Duct Insulation	SUPREME/PARAMOUNT
7	Room Acoustic Insulation	UP TWIGA/ OWENS CORNING
8	Grilles, Diffusers, Dampers, Laminar	TRISTAR/CARRYAIRE/AFC
9	Fire Dampers	TRISTAR/CARRYAIRE/AFC
10	G.I.Sheets For Ducts	SAIL/JINDAL/BHUSHAN
11	Power/Control Cables	POLYCAB/FINOLEX/HAVELLS
12	Hard PVC Pipes	POLYCAB/SUPREME/PRINCE
13	Armoured Power Cables	POLYCAB/ HAVELLS/ FINOLEX
14	Starters/Contactors/ Overload Relay	L&T/ SIEMANS
15	Electrical Control Panel	AS PER APPROVAL FROM CONSULTANT/ CLIENT
16	Inline Fan	CARYAIR / VENTS / OSTBERG / SPHERE

6.0 PROJECT EXECUTION

6.1 Project Execution & Supervision Aspects

1. The Bidder, who shall act as Contractor for the project shall be composed of qualified and experienced experts, who can carry out all the routine construction works as a fully competent and independent unit.

However, in preparing his proposal for the construction, the Bidder should allow for a suitable mechanism which will ensure thorough co-ordination of the design and execution teams, so that each team is at all times fully aware of the remedies to common problems used by the other team.

2. The Project Head/Project Manager Representative on behalf of the Contractor should be authorized with whom day to day interactions shall be made by the Engineer-in-

Charge for execution and supervision of works. He should be a senior Civil Engineer with at least 15 years of professional experience out of which 10 years in planning and construction of building works. He should have executed at least one major building work of similar in nature as proposed by the Bidder. He should be familiar with modern construction equipment and Contract conditions. The candidate should have a thorough understanding and experience with IS code relating to building construction.

3. The Bidder shall provide competent personnel for the project execution and supervision who shall be managed by the Project Head/Project Manager at site in performing the assignment under this Contract.

The Bidder's personnel should have the required experience and expertise in conducting similar type of works with highest professional standards.

The Bidder is required to set-up the site office at the work site and make their own arrangements for the accommodation, furniture and equipment etc.

The project execution and supervision personnel should be mobilized from the date of commencement of works by the Bidder. During the Defects Liability Period, the Bidder would be expected to provide technical advisory services on an "as required" basis.

After award of the Contract, the Employer expects all of the proposed personnel to be available during implementation of the Contract.

4. Contractor shall carry out proper layout of the building to ensure appropriate alignment, line and level in column & beams by Total Station Equipment only. The Contractor must be doubly sure about the correctness of the same as per layout plan and structural drawings. The certificate of the correctness of layout of the building will be submitted by the contractor to the Engineer in Charge for release of first RA bill of particular building.
5. It is the duty of the Contractor to:
 - Ensure that high quality of construction is achieved
 - Ensure that all works are carried out in full compliance with the Engineering design, technical specifications and Contract documents;
 - Check / conduct all necessary measurements, tests, and control the quality of various items of works and in accordance with the relevant code of Building specification with the latest edition.

Key Personnel:

The contractor shall employ at his cost the adequate number of minimum technical staff during the execution of this work and defect liability period as per **Enclosure-I** or more depending upon the requirement of work. For this purpose the numbers to be deployed, their qualification, experience as decided by Employer shall be final and binding on contractor. The contractor shall not be entitled for any extra payment in this regard. The technical staff should be available at site, whenever required by WAPCOS to take instructions.

Within 15 days of letter of intent, the contractor shall submit a site organizational chart and Resume including details of experience of the Project-in-Charge and Technical staff as per following table for the approval of Employer.

The removal of such additional staff from the site shall only be with the prior written approval of Engineer-in-Charge. The contractor shall not be paid anything extra whatsoever on account of deployment of additional staff and decision of the Engineer-in-Charge shall be final and binding on

the contractor. In case the contractor fails to employ the staff as aforesaid, then the amount mentioned in Enclosure-I shall be recovered from the Contractor.

6.2 Minimum Site Equipment Required

Availability (either owned or leased having validity for the period till completion of project) of the key and critical equipment required at site as per the quantum of work will be as per **Enclosure-II**. The Bidder is to provide their own estimate of the number of equipment, commensurate with their work plan and methodology.

6.3 Equipment for Testing of Materials & Concrete at Site Laboratory

All necessary equipment for conducting necessary tests shall be provided at the site laboratory by the Bidder at his own cost as per **Enclosure-III**

6.4 Instructions of Engineer-in-Charge

The Engineer-in-Charge will, but not be limited to, the following:

- give the order to commence the works;
- inspect Contractor's plant and equipment's and recommend augmentation/rectification of deficiencies, if required
- order special tests of materials and/or completed works, and/or order removal and substitution of improper materials and/or the works as required;
- review all the test result/ certificates of all construction materials and inspect sources of materials to establish their quality suitable to the required standard.
- check all bituminous mix designs and concrete mix design proposed by the Bidder where ever required and in due time and suggest modifications in the mix design, laying methods, sampling and testing procedure and quality control measures, to ensure required standard and consistency in quality at the commencement of times;
- check and certify the laboratory and field tests carried out by the Contractor and also carry out independent tests, if required. The report of such test shall be submitted to the Engineer-in-Charge within a period of 7 days of such tests.
- inspect the works during the construction period and the Defects Liability Period, and to issue Defects Liability Certificates after rectification by the Contractor of defects notified to him by the Engineer-in-Charge;
- check the setting out the works;
- instruct the removal from the site of materials which are not as per specifications or reconstruction of parts of the works which do not comply with the specification;
- direct to submit monthly progress reports, Quarterly progress report, Final completion Report and Bar Chart / Programme chart to complete the work in stipulated time period.
- direct to prepare Running Account Bills for works carried out by the Contractor, and certify completion of parts or the totality of the works and record of measurements in the measurement book.
- direct to send certified bill to the WAPCOS office for approval of competent authority and payment.
- direct to prepare deviation / variation (if any) with duly certified supporting documents as per the provisions in contract and will send the same to WAPCOS office for the approval of Competent Authority.

6.5 Duties & Responsibilities of the Project Head/Project Manager of contractor

The duties of the Project Head/Project Manager of the Contractor are, to supervise construction of the works and, to test and examine any material to be used or workmanship employed in connection with the works. The principal responsibilities of the Project Head/Project Manager of the Contractor are likely to be but not limited to as follows:

- To follow the instructions given by the Engineer-in charge, Principal Employer and WAPCOS
- To prepare detailed bar chart depicting each & every activity of the work along with quantity and time bar, to complete the work in stipulated time period, which will be displayed in the Site office.
- To provide the all residential facility at site camp to the Engineer-in-Charge as per provisions
- to ensure that the construction work is accomplished in accordance with the technical specifications and Contract Conditions;
- to identify construction problems and delays and to recommend to the Engineer-in-Charge, actions to expedite progress
- to ensure proper keeping of records
- to monitor and check the day-to-day quality control and quantity measurements of the work carried out under the Contract
- to prepare in consultation with the Engineer-in-Charge, a Construction Supervision Manual outlining routine and procedures to be applied in Contract management, construction supervision and administration;
- to prepare a maintenance manual outlining the routines to be adopted in each specific reach and for the cross-drainage works and buildings;
- to comply with his contractual obligations in executing work in all matters concerning safety and care of the works (including the erection of temporary signs) and, if required, to request the Contractor to provide any necessary lights, guards, fencing and watchmen for smooth and effective working and traffic flow.
- to write a day-by-day project diary which shall record all events pertaining to the administration of the Contract, request forms and orders given to the Contractor, and any other information which may at a later date be of assistance in resolving queries which may arise concerning execution of the works;
- preparation & submission of monthly progress reports, Quarterly progress report, Final completion Report.
- Preparation, Submission & time to time revision of Bar Chart / Programme chart to complete the work in stipulated time period.
- Any other work as outlined in contract agreement, which is the responsibility of the Contractor.

6.6 Documents Prepared Shall be the Property of the Employer

All plans, drawings, specifications, designs, reports and other documents (both computer hard copies and soft copies) in performing the works shall become and remain the property of the Employer, and the Contractor shall, not later than upon termination or expiration of this Contract, deliver all such documents to the Employer, together with a detailed inventory thereof. The Contractor may retain a copy of such documents but shall not use these documents for purposes unrelated to this Contract without the priory written approval

of the Employer.

6.7 Completion Schedule/deliverables

The works has to be completed in the following phasing:

SN.	Description of Mile stone (Physical)	Time allowed (from the date of start)
1	1/8 th of the whole of the work	Within 4.5 months
2	3/8 th of the whole of the work	Within 9 months
3	3/4 th of the whole of the work	Within 13.5 months
4	Whole work including Handing over	Within 18 months

Note: The tentative time schedule is enclosed at Enclosure-IV. The contractor shall submit component wise detailed schedule plan for each activity of components, to the Employer with the condition of completion of work within stipulated time period for proper monitoring of the project.

The work of plantation, internal & external services, etc. shall be completed simultaneously during the progress of work as and when the site is available for the same, as per direction of Engineer-in-Charge.

6.8 Other Site Facilities

The cost of providing the work/facilities stated below are to be borne by the Contractor and shall be deemed to be included in the quoted cost by the Contractor.

- The same shall be furnished as per requirement of Monthly Progress report / Quarterly Progress Report/ Final completion report.
- 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.

- The Contractor shall display all permissions, licenses, registration certificates and other statements required to be displayed under various labour laws and other legislations applicable to the works at the site office and also maintain the requisite register / records factually and up to date and keep them ready for inspection by the concerned authorities and also make available the same to the Engineer-in-Charge / Owner for inspection.
- The relevant I.S. codes of practice and other relevant codes shall be of latest version with their amendments/ revisions. The Contractor shall keep and maintain copies of the latest editions of codes at the work site and make it available to Employer whenever required.
- In case of Guarantees specified for certain periods for due performance of materials and specialist items of work, the Contractor shall be a co-guarantor with the Specialist Contractor or Supplier offering such Guarantee and shall offer such co- Guarantee in a format approved by the Employer.
- If desired by the Employer, the Contractor shall stack and spread to the require profile the excess earth available suitable for filling in layers not exceeding 200mm, watering, consolidation within the campus and dispose of all surplus material to the nearest dumping ground/ land fill area without any additional cost, etc.
- The Employer may if require, request the assistance of Contractor labour for purpose other than from part of Contract. The Contractor will not unreasonably deny such assistance and the Engineer-in-Charge decision in this regard shall be binding on the Contractor. The Contractor will be then paid on the basis of minimum wages rates and provision made in the General Conditions of Contract.
- Contractor shall provide safety gadgets to the Employer officers.

6.9 Drawings

6.9.1 Good for Construction Drawings

The work shall be carried out in accordance with the approved architectural drawings, structural drawings, MEP services drawings to be issued from time to time, by the Engineer-in-Charge, and approved shop drawings prepared by the Contractor. Before commencement of any item of work the Contractor shall correlate all the relevant architectural and structural drawings, nomenclature of items and specifications etc. issued for the work and satisfy himself that the information available from there is complete and unambiguous. The figure and written dimension of the drawings shall be superseding the measurement by scale.

The stage wise drawings shall be released as “GOOD FOR CONSTRUCTION” from time to time as per requirement of that particular stage, by the Engineer-in-Charge and revised drawings as per any additions/ modifications/ alterations/ deletions will be issued to the Contractor progressively. The discrepancy, if any, shall be brought to the notice of the Engineer-in-Charge before execution of the work. The Contractor alone shall be responsible for any loss or damage occurring by the commencement of work based on any erroneous and or incomplete information and no claim whatsoever shall be entertained by the department on

this account.

The levels, measurements and other information concerning the existing site as shown on the conceptual / layout drawings are believed to be correct, but the Bidders should verify the same for themselves and also examine the nature of the ground as no claim or allowance whatsoever shall be entertained on account of any errors or omissions and commissions in the levels or strata turning out different from what is shown on the drawings.

Two copies of contract documents including Drawings furnished to the Contractor shall be kept at the Sites and the same shall at all reasonable times be available for inspection.

6.9.2 Coordinated drawings

Before taking up the work, the Contractor shall prepare shop drawings for the works listed below for various civil and electrical services showing details of layout in plan including sections & elevations & large-scale details and Contractor shall plan and mobilize his resources as per these drawings and as per actual site conditions to facilitate convenient execution, installation as well as maintenance of these items. Nothing extra shall be payable on this account.

6.9.3 Shop drawings

The bill of quantities, technical specifications and drawings together shall be considered as a tender requirement and the work shall be carried out as per good for construction (GFC) drawings, issued by Engineer-in-Charge. The Contractor shall study the GFC drawings and taking into account actual site conditions and selected material and requirements shall prepare shop drawings for the following works, as fully coordinated drawings, as given above.

- a. Aluminium work, Stainless steel work and railings etc.
- b. Expansion joint work
- c. Reflected Ceiling Plan (RCP), coordinated with all ceiling related services.
- d. Marble, granite, vitreous, ceramic, tile work details.
- e. All Electrical work
- f. All Sanitary and sewerage work
- g. All plumbing works.
- h. Rainwater Pipe details/ position, roof slopes etc.
- i. Drainage details.
- j. Door Window details
- k. All steel fabrication work.
- l. Fixture, Furniture and Equipment (FFE) work.
- m. Any other works detail if required.

Within the time frame agreed with the Engineer-in-Charge, the Contractor shall prepare shop drawings using latest version of AutoCAD. Shop drawings shall show all layouts, details in plans & sections showing all connections, junctions, bends, supports, clearances. Fixing arrangements with dimensions room, etc shall be prepared by the Contractor on AutoCAD based on the architectural drawings and site measurements. All measurable items quantities shall be mentioned on each shop drawing being submitted for approval by the Contractor. 3 sets of shop drawings (soft copy also) shall be submitted for approval and Seven sets of final shop drawings after approval by Engineer-in-Charge shall be submitted by the Contractor along with the soft copy. The shop drawings, shall be prepared as per schedule given in PERT Chart.

Technical submittals of manufacturer's catalogues and technical data shall be submitted for approval. The Contractor shall designate an Engineer responsible for issue and preparation of shop drawings and control of GFC drawings.

6.9.4 As built drawings

- i. The Contractor shall make available four (04) sets of completed Building Drawings, “As Built Drawings” along with literatures, manuals, warranty certificates etc. of various installed fittings, fixtures and equipment for the completed projects. This shall be the prerequisite for payment of final bill.
- ii. The Contractor shall make available three (03) sets of all services drawings including Electrical & HVAC work internal and external services i.e. Water Supply, Sanitary line and Drainage lines. This shall be the prerequisite for payment of final bill. These drawings shall have the following information:
 - a. Run off for all piping and their diameters including soil, waste pipes and vertical stacks.
 - b. Ground and invert level of all drainage pipes together with locations of all manholes and connections, up to outfall.
 - c. Run off for all water supply lines with diameters location of control valves, access panels etc.

6.10 Testing and Commissioning

- The Contractor shall arrange electricity at his own cost for testing of the various electrical and mechanical installations as directed by Engineer-in-Charge and for the consumption by the Contractor for executing the work. Also all the water required for testing various electrical installations, fire pumps, firefighting/ firefighting equipment, fire sprinklers. and testing water supply, sanitary and drainage lines, water proofing of underground sump, overhead tanks, water proofing treatment etc. shall be arranged by the Contractor at his own cost. Nothing extra shall be payable on this account.
- Testing of equipment shall be carried out as per technical Specifications, manufacturer’s recommendation and latest standards available up to date. The testing report shall be submitted along with Operation and Maintenance manual of the equipment at the time of handover.
- Contactor to provide training for operation and maintenance of equipment through respective manufacturer for the routine and preventative maintenance of equipment post Defect Liability Period.
- The Contractor shall demonstrate trouble free functioning of all the Civil and E&M installation sand services. The Engineer-in-Charge or his authorized representatives shall carry out final inspection of the various Civil and E & M services and installations. Any defect(s) noticed during demonstration shall be rectified by the Contractor at his own cost to the entire satisfaction of the Engineer-in-Charge. Nothing extra shall be payable on this account.

Enclosure-I
Desired Site Organization Structure

Minimum Level of Execution Team and Qualification/Experience of Key Staff to be deployed by the Contractor during execution of relevant works/fields is as follows:

SN.	Designation	Qualification	Minimum Experience	Minimum No. Required	Rate of recovery if not provided
A Principal Technical Manpower Deployment during Execution of Work					
1	Project Head/ Project Manager	Graduate Engineer (Civil)	15 years	1	Rs. 40,000/- per month
2	Project Engineer (Civil & Quality)	Graduate Engineer (Civil)	10 years	1	Rs. 30,000/- per month
3	Project Engineer (Electrical)	Graduate Engineer (Electrical)	5 years	1	Rs. 25,000/- per month
B Manpower Deployment during Defect Liability Period					
1	Supervisor	Diploma Engineer	5 years	1	Rs. 15,000/- per month
2	Electrician	Skilled	3 years	1	Rs. 10,000/- per month
3	Plumber	Skilled	3 years	1	Rs. 10,000/- per month

Enclosure-II
Deployment of Minimum no. of Plant and Machinery by the Contractor

Whereas it is entirely the responsibility of the contractor to deploy sufficient plant and modern mechanical equipment to ensure compliance with the Contract, the following list is an indicative list of the minimum plant and machinery.

SN.	List of Plants and Machineries	Minimum nos. required
1	Batch Mix Concrete Plant with the provision of SCADA of adequate capacity (18 Cubic meters per hour and above) at each site	1 no.
2	Field testing equipment	1 set or more as per site requirement
3	Rock Drilling Equipment	10 no. or more as per site requirement
4	Latest model of Theodolite + Levelling	1 no.
5	Total Station	1 no.
6	Truck & tipper	1 no. or more as per site requirement
7	Transit Mixer (at least 6 cubic metre capacity)	1 no. or more as per site requirement
8	Vibrator equipment (electrical & fuel type)	4 no. or more as per site requirement
9	Concrete pump of capacity at least 15 cubic metre per hour	1 no.
10	Mechanical excavator (Crawler mounted)	1 no.
11	Loader with Backhoe (tyre mounted)	1 no.
12	Minimum Steel staging & shuttering material	As per site requirement and to complete the work within schedule time period
13	Water Pumps	1 no. or more as per site requirement.
14	Compaction Roller	1 no.

Note: The Bidder shall deploy additional plant & machinery as deemed fit and required to complete the project within stipulated completion period, without any additional cost to the Employer.

Enclosure-III**Equipment for Testing of Materials & Concrete at Site Laboratory**

All necessary equipment for conducting necessary tests shall be provided at the site laboratory by the Bidder at his own cost as per following details.

SN	Equipment	Quantity
A	Mandatory Equipment	
1	Automatic Cube testing machine	1 No.
2	Slump Cone	2 Nos.
3	Weighing scale platform type 100 kg capacity	1 No.
4	Sets of sieves for coarse aggregate (40,20,10,4.75mm)	1 Nos.
5	Sets of sieves for fine aggregate [4.75; 2.36, 18; 600; 300 & 150 micron	1 Nos.
6	Cube moulds size 150mm x 150mm x 150mm	30 Nos.
7	Core cutter for soil compaction with accessories	1 No.
8	Rebound hammer test Digital rebound hammer	1 No.
9	Digital pH meter least count 0.1pH	1 No.
10	Graduated glass cylinder	2 No.
11	Water testing Kit	1 No.
12	TDS meter	2 No.
13	Hot Air Oven Temp. Range 50°C to 300°C	1 No.
14	Measuring Jars 100ml, 200ml, 500ml	1 set of each size
15	Moisture content rapid moisture meter standard	1 No.
16	Poker Thermometer (Concrete Road) 0°C to 100°C	1 No.
17	Vernier calipers 12" and 6" sizes	1 No. each
18	Electronic balance 600g x 0.01g, 10kg and 50kg	1 No.
19	Aggregate impact value testing machine with blow counter	1 No.
20	Separate Cube Tank for 7 days cube testing	1 No.
21	Separate Cube Tank for 28 days cube testing	1 No.
B	Other Equipment as and when required	
1	Tensile Briquette testing machine	
2	Vicats apparatus with Desk Pot	
3	Megger & earth resistance tester	
4	Pumps and pressure gauges for hydraulic testing of pipes	
5	Physical balance weight up to 5kg	
6	Digital thermometer up to 1500°C	
7	Gauging trowels 100mm & 200mm with wooden	
8	Spatula 100mm & 200mm with long blade wooden handle	
9	Crushing value apparatus	
10	Screw gauge 0.1mm – 10mm, least count 0.05 mm	
11	GI tray 600x450x50mm, 450x300x40mm, 300x250x40mm	
12	Digital Micrometer least count 0.01mm	
13	Digital paint thickness meter for steel 500-micron range	
14	Electric Mortar mixer 0.25 Cum capacity	
15	Thickness gauge for measuring flakiness index	
16	Elongation gauge	
17	Measuring Cylinder 3,5,10 & 15 litre Cylinder	
18	Pycnometer	
19	Pulse velocity Test	
20	Bar Relocator	
21	Other Equipment as required for the work and as required by	

SN	Equipment	Quantity
	the Inspection Team	

NOTE: Any other equipment for laboratory tests at site will be the way it is outlined in relevant IS Codes and / or as directed by the Employer's Representative. Quality Control Engineer shall monitor collection of Sample and conducting regular testing at site maintaining propriety and the very best standard followed in industry of construction. All relevant IS Codes, special publications as per latest amendment/edition shall be referred.

Enclosure-IVTENTATIVE BAR CHART

SN	Components	Months																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Mobilization & Levelling of Site	█																	
2	Boundary Wall		█	█	█	█	█												
3	Girls' Hostels					█	█	█	█	█	█	█	█	█	█	█	█	█	
4	Warden Residence				█	█	█	█	█	█	█	█	█	█	█				
5	VC, Residence				█	█	█	█	█	█	█	█	█	█	█	█			
6	Sub Station works												█	█	█	█	█		
7	Waterproofing and OHT works at terrace														█	█	█	█	
8	Sentry Booth												█	█	█	█			
9	External Development works														█	█	█	█	█

SECTION – VIII

TENDER DRAWINGS

S.NO.	FLOOR	BUILT-UP EXCLUDING BALCONIES (sq.m)	BALCONY AREA (sq.m)	TOTAL BUILT-UP (sq.m)
1	GROUND FLOOR	1140.25	68.30	1208.55
2	FIRST FLOOR	1065.43	94.97	1160.4
3	SECOND FLOOR	905.03	99.60	1004.63
4	THIRD FLOOR	923.39	62.60	985.99
TOTAL		4034.1	325.47	4359.57

DOOR & WINDOW SCHEDULE						
S.NO.	SYMBOL	SIZE	SHL LVL	UNTL LVL	LOCATION	REMARKS (MATERIALS)
1	D1	1800 X 2100	-	2100	CORRIDOR	
2	D2	900 X 2100	-	2100	ROOMS/STORAGE OFFICES	AS PER SPECIFICATION
3	D3	750 X 2100	-	2100	TOILETS	
4	D4	1050 X 2100	-	2100	TOILETS/STORAGE	
5	D5	1500 X 2100	-	2100	BALCONIES	
1	DW1	1650 X 2100	00/1050	2100	BALCONIES	AS PER SPECIFICATION
2	DW2A	1500 X 2100	00/1050	2100	BALCONIES	AS PER SPECIFICATION
1	GL1	6115 X 2500	-	B.O.B	ENTRANCE LOBBY	
2	GL2A	6115 X 2500	T.O.B.	B.O.B	ENTRANCE LOBBY	AS PER SPECIFICATION
3	GL2	3540 X 2500	-	B.O.B	ENTRANCE LOBBY	
4	GL2B	3540 X 2500	T.O.B.	B.O.B	ENTRANCE LOBBY	
1	W1	1800 X 1050	1050	2100	ROOM	
2	W1A	1800 X 1050	AS/LANDINGS	LANDINGS B.O.B	STAIRCASE	
3	W2	1200 X 1050	1050	2100	ROOM	AS PER SPECIFICATION
4	W3	1050 X 1050	1050	2100	ROOM	
5	W4	800 X 1050	1050	2100	ROOM / TOILETS	
6	W5	800 X 1050	1050	2100	ROOM	
1	FD	1800 X 2100	-	2100	STAIRCASE	
2	FD1	750 X 2100	-	2100	ELECTRICAL ROOM	
3	FD2	1140 X 2000	100	2100	LV SHAFT	AS PER SPECIFICATION
4	FD3	1100 X 2000	100	2100	FHE	
5	FD4	1370 X 2000	100	2100	FHE	

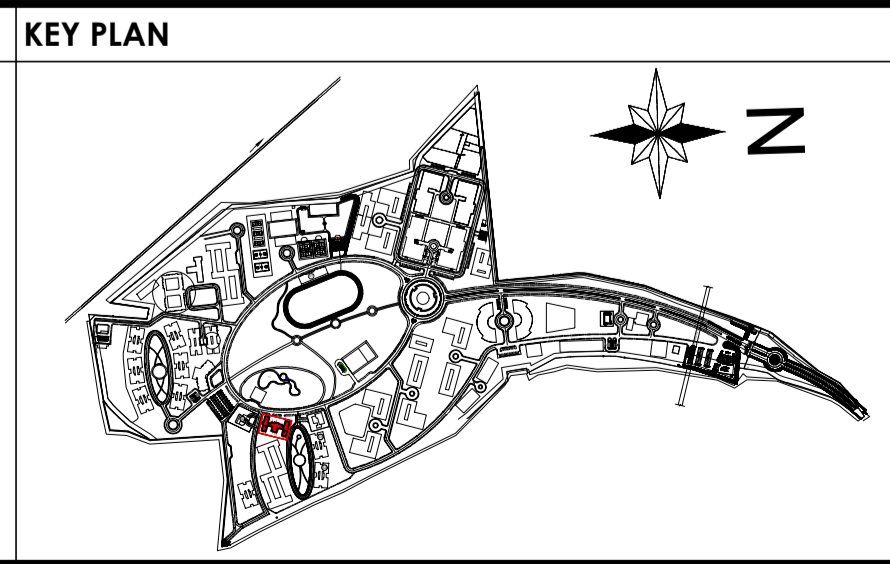
S.NO.	FACILITIES PROVIDED - GROUND FLOOR
1	RECEPTION/VISITOR'S LOUNGE
2	WARDEN'S OFFICE WITH WARDEN'S ROOM
3	ASSISTANT WARDEN'S ROOM
4	GUEST ROOM
5	WELLNESS ROOM
6	COMPUTER ROOM
7	MESS <ul style="list-style-type: none"> DINING HALL (120 CAP.) SERVICE COUNTER HAND WASH & DRINKING WATER OPEN PREPARATION & COOKING AREA WASHING AREA COOK'S ROOM (FEMALE) COOK'S ROOM (MALE) STORAGE
8	LAUNDRY AREA
9	STUDENT'S ROOM <ul style="list-style-type: none"> SINGLE OCCUPANCY ROOM (24 NOS.) THIRD GENDER ROOM (2 NOS.)
10	COMMON TOILETS

	RCC ROAD
	INTERLOCKING LANDSCAPING TILES

GROUND FLOOR PLAN

NOTES:

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LEGEND:

PROJECT
NEW CAMPUS OF
CH. BANSI LAL UNIVERSITY
AT PREM NAGAR, BHIWANI-HANSI ROAD
BHIWANI-HARYANA

CLIENT
 CH. BANSI LAL UNIVERSITY

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 WAPCOS Ltd.
(A GOVERNMENT OF INDIA UNDERTAKING)

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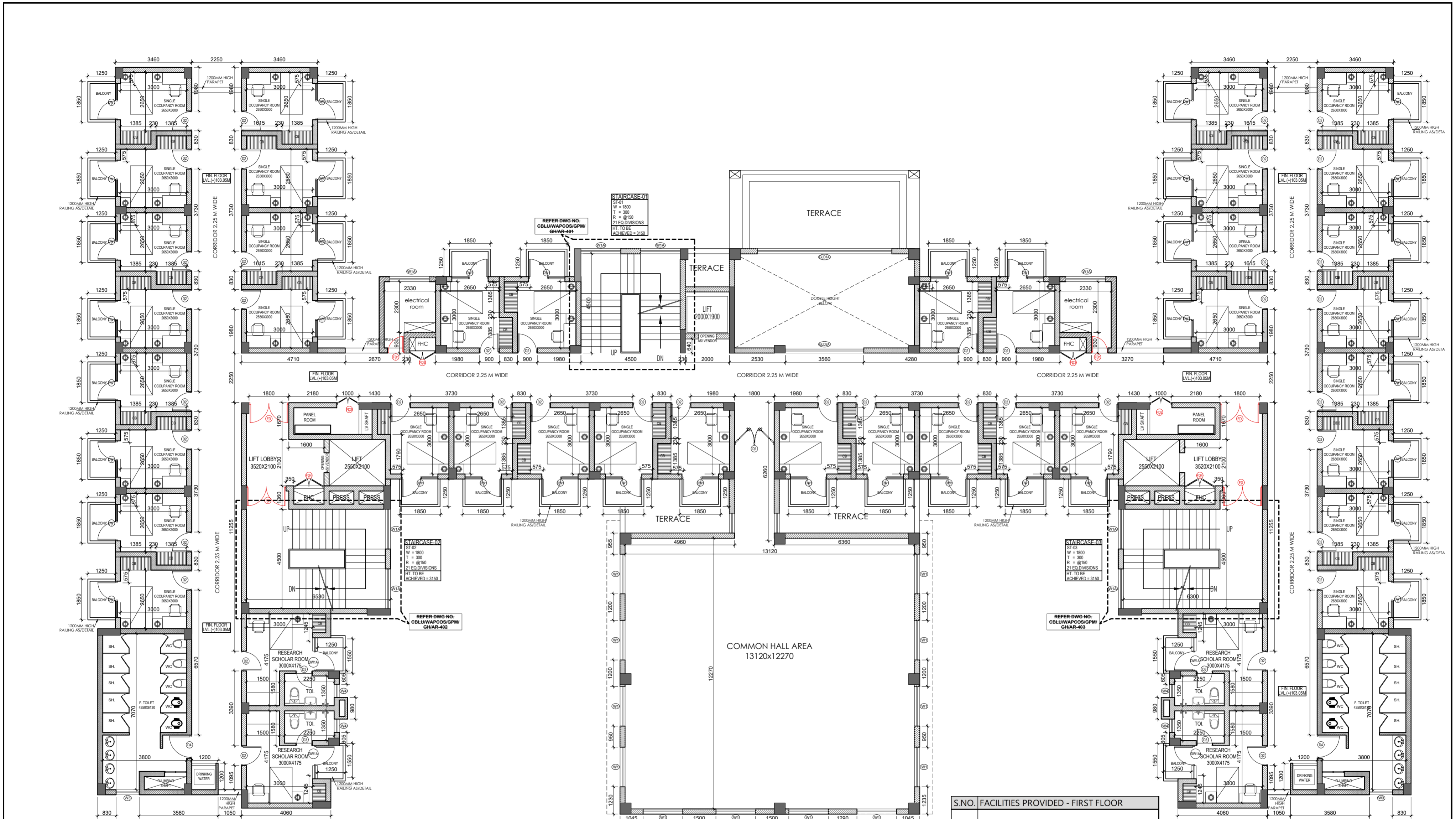
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STRUCTURAL CONSULTANT

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DRAWING ISSUED FOR
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SEAL & SIGN.

GROUND FLOOR PLAN			
DRAWING TITLE GIRL'S HOSTEL -TENDER DRAWING			
DRAWN BY GB	CHECKED BY SV	DATE: 18.09.2025	SCALE/ PAPER SIZE 1/75/A1
		REVISION	RO

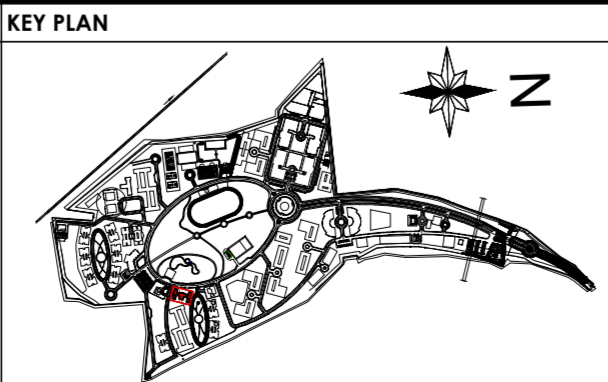


FIRST FLOOR PLAN

S.NO.	FACILITIES PROVIDED - FIRST FLOOR
1	COMMON HALL
2	STUDENT'S ROOM • SINGLE OCCUPANCY ROOM (38 NOS.) • RESEARCHER SCHOLAR'S ROOM (4 NOS.)
3	COMMON TOILETS

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FIRST FLOOR PLAN	
DRAWING TITLE	
GIRL'S HOSTEL - TENDER DRAWING	
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DATE: 18.09.2025	SCALE/ PAPER SIZE 1/75A1
REVISION	

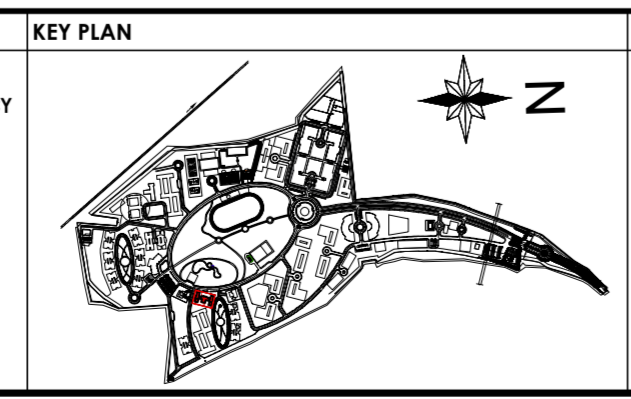


SECOND FLOOR PLAN

S.NO.	FACILITIES PROVIDED - SECOND FLOOR
1	STUDENT'S ROOM • SINGLE OCCUPANCY ROOM (40 NOS.) • RESEARCHER SCHOLAR'S ROOM (4 NOS.)
2	COMMON TOILETS

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SECOND FLOOR PLAN		
DRAWING TITLE GIRL'S HOSTEL -TENDER DRAWING		
DRAWN BY GB	CHECKED BY SV	REVISION
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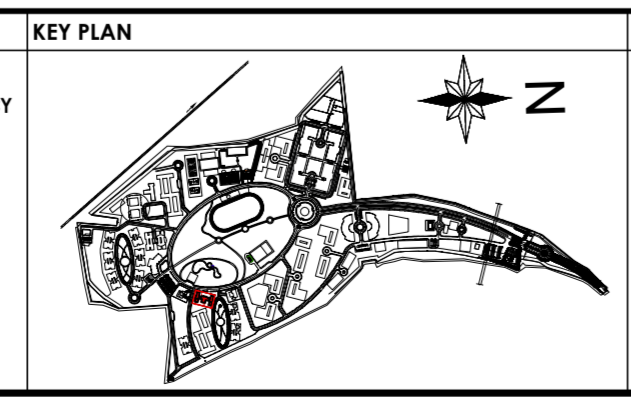


THIRD FLOOR PLAN

S.NO.	FACILITIES PROVIDED - THIRD FLOOR
1	STUDENT'S ROOM • SINGLE OCCUPANCY ROOM (24 NOS.) • TRIPLE OCCUPANCY ROOM (8 NOS.) • RESEARCHER SCHOLAR'S ROOM (4 NOS.)
2	COMMON TOILETS

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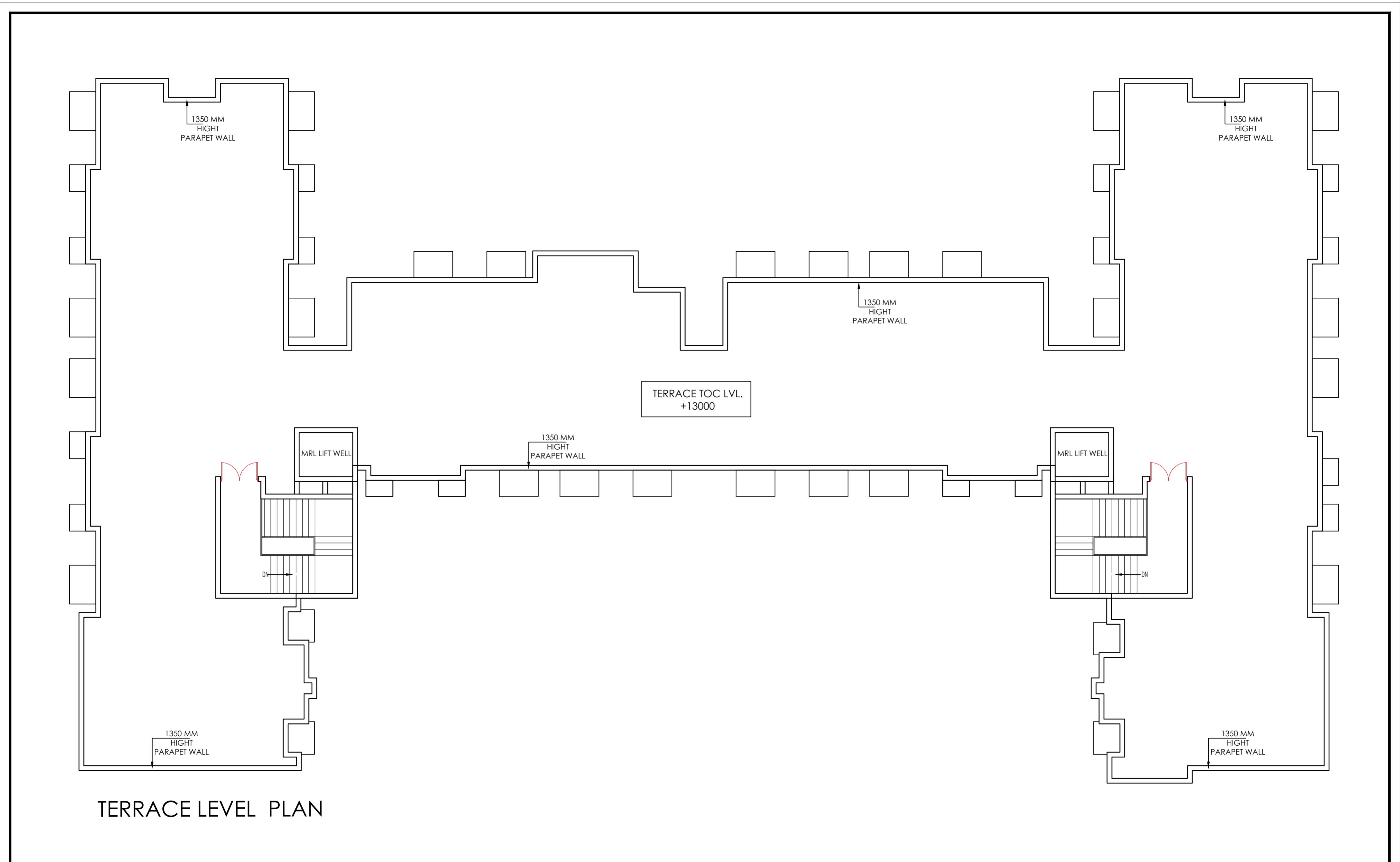
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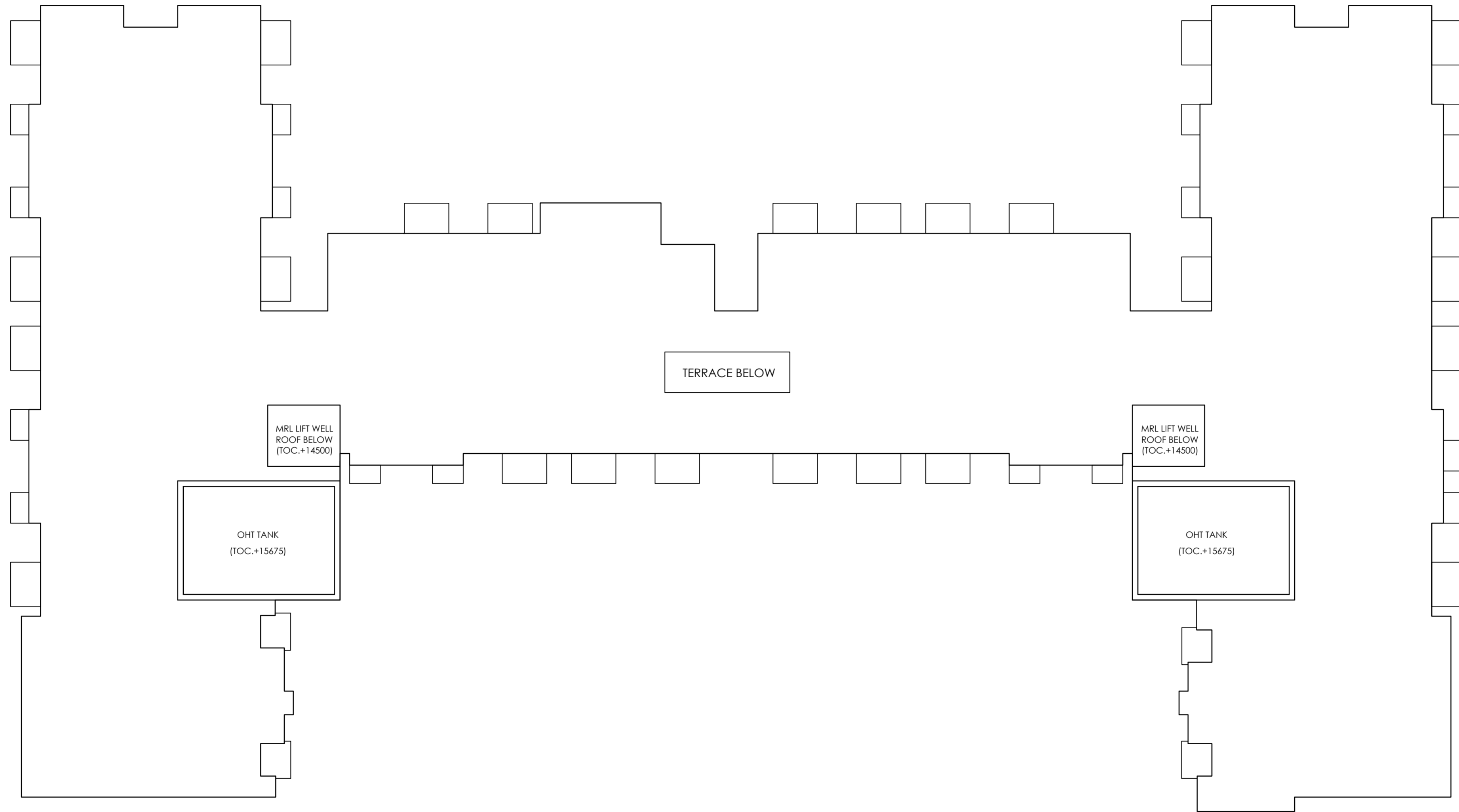
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THIRD FLOOR PLAN		
DRAWING TITLE		
GIRL'S HOSTEL - TENDER DRAWING		
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DATE: 18.09.2025	SCALE/ PAPER SIZE 1/75/A1	

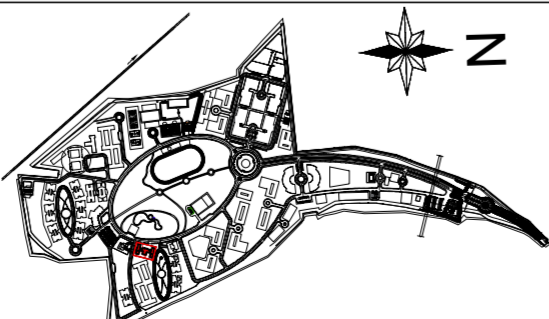






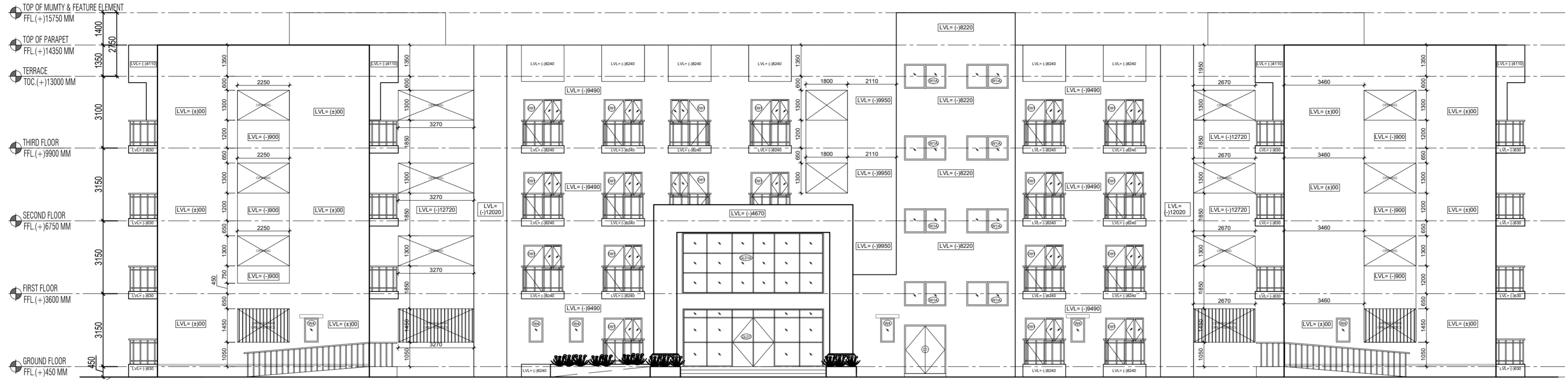
TERRACE LEVEL PLAN

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			CLIENT	ARCHITECT	STRUCTURAL CONSULTANT	SEAL & SIGN.	DRAWING TITLE
			CH. BANSI LAL UNIVERSITY	GIAN P. MATHER AND ASSOCIATES (P) LTD. C-55, East Of Kailash, New Delhi-110065 T: 465995901 F: 46599512 E: info@gpmindia.com W: www.gpmindia.com	GIAN P. MATHER AND ASSOCIATES (P) LTD. C-55, East Of Kailash, New Delhi-110065 T: 465995901 F: 46599512 E: info@gpmindia.com W: www.gpmindia.com		GIRL'S HOSTEL -TENDER DRAWING
							DRAWN BY GB
						DATE: 18.09.2025	



OHT LEVEL PLAN

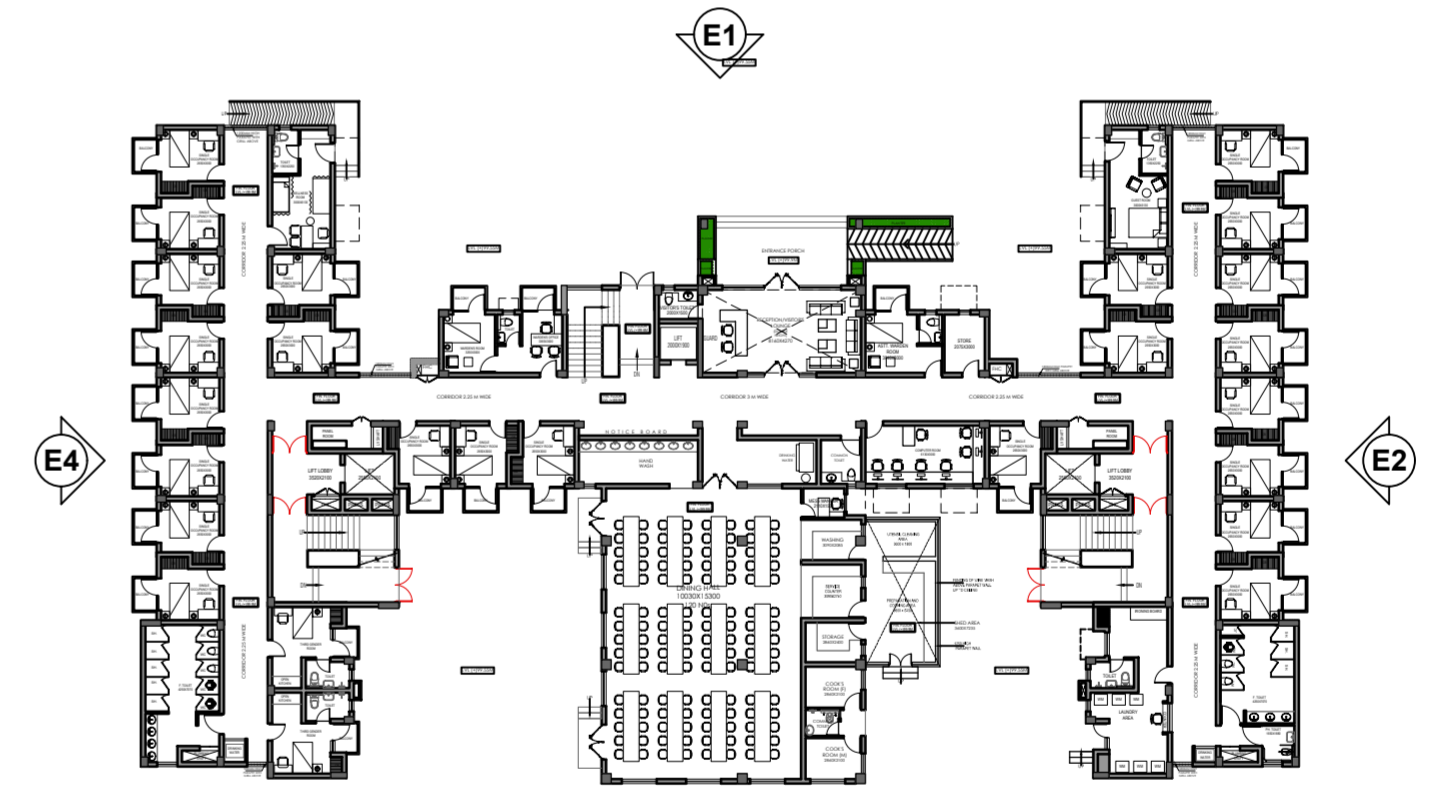
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			CLIENT  CH. BANSI LAL UNIVERSITY	ARCHITECT  GIAN P. MATHER AND ASSOCIATES (P) LTD. C-55, East Of Kailash, New Delhi-110065 T: 465995901 F: 46599512 E: info@gpmindia.com I W: www.gpmindia.com	STRUCTURAL CONSULTANT  GIAN P. MATHER AND ASSOCIATES (P) LTD. C-55, East Of Kailash, New Delhi-110065 T: 465995901 F: 46599512 E: info@gpmindia.com I W: www.gpmindia.com	TENDER PURPOSE	DRAWING TITLE GIRL'S HOSTEL -TENDER DRAWING
						SEAL & SIGN.	



ELEVATION 1

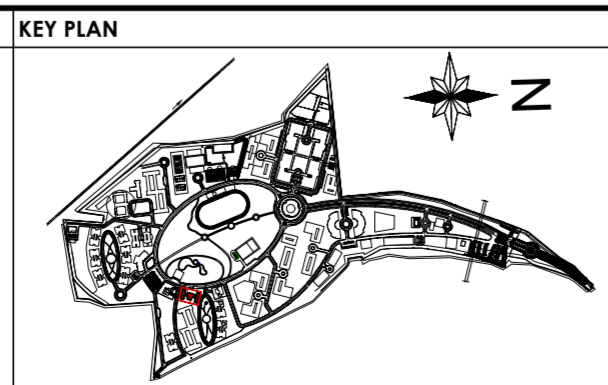


ELEVATION 2




KEY PLAN


- NOTES:**
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LEGEND:


PROJECT
 NEW CAMPUS OF
CH. BANSI LAL UNIVERSITY
 AT PREM NAGAR, BHIWANI-HANSI ROAD
 BHIWANI-HARYANA

CLIENT
 **CH. BANSI LAL UNIVERSITY**

PROJECT MANAGEMENT CONSULTANTS
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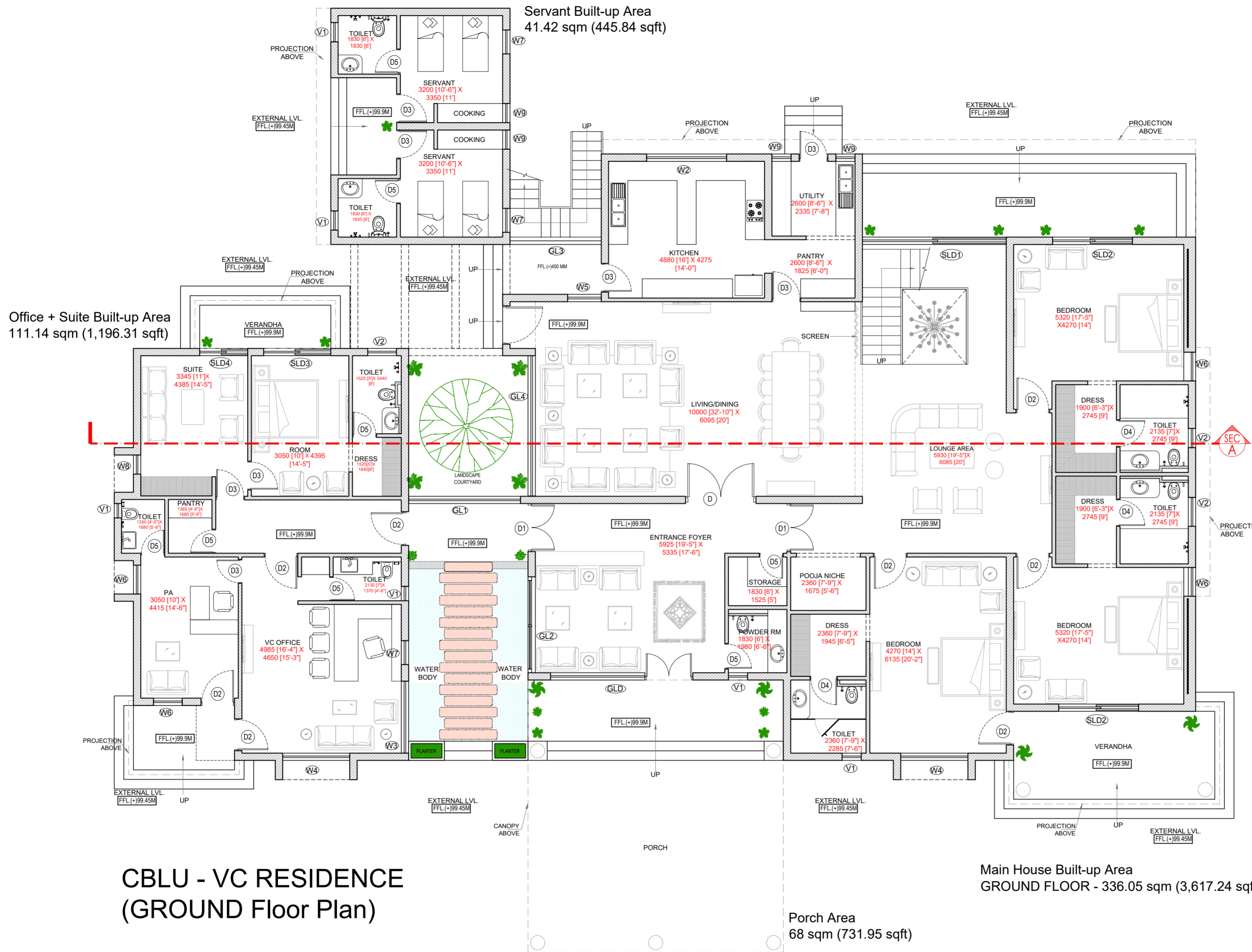
MEP CONSULTANTS
STRUCTURAL CONSULTANT

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 TENDER PURPOSE

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ELEVATION-1 & 2		
DRAWING TITLE		
GIRL'S HOSTEL -TENDER DRAWING		
DRAWN BY GB	CHECKED BY SV	REVISION
DATE: 18.09.2025	SCALE/ PAPER SIZE 1:75/A1	



AREA DETAIL		
S.No.	Room	Built-up Area (sqm)
1.	Main VC Residence	471.81 sqm (5078.56 sqft)
2.	Office + Suite	111.14 sqm (1,196.31 sqft)
3.	Servant Rooms	41.42 sqm (445.84 sqft)
4.	Porch	68.0 sqm (731.95 sqft)
TOTAL BUILD-UP MAIN HOUSE (GF+FF) + OFFICE + SERVANT		624.37 sqm (6720.71 sqft)

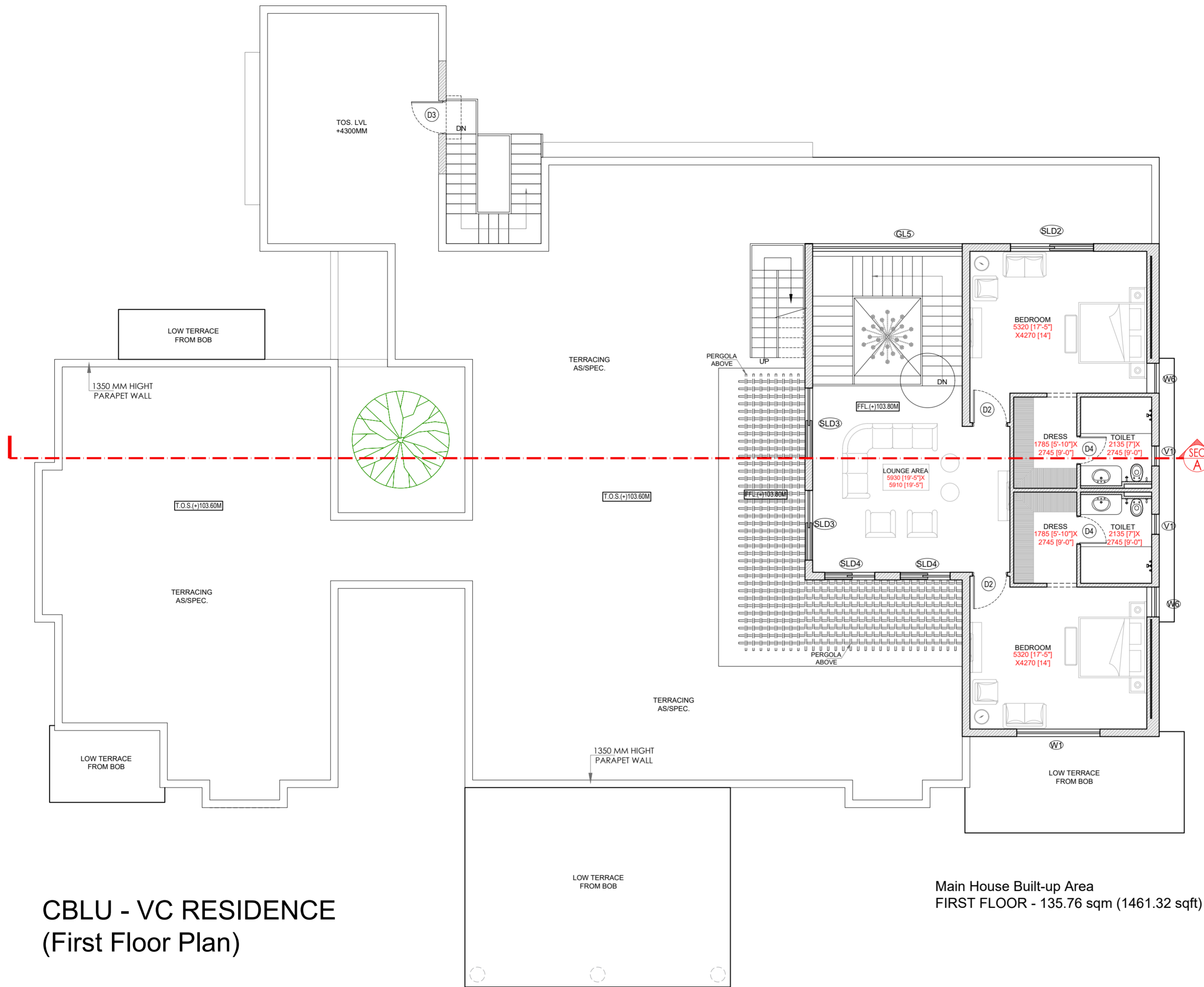
DOOR & WINDOW SCHEDULE						
S.NO.	SYMBOL	SIZE	SILL LVL	LINTEL LVL	LOCATION	TYPE
1	D	2200 X 2700	-	2700	UNIT ENTRANCE	DOUBLE
2	D1	1500 X 2700	-	2700	PASSAGE	DOUBLE
3	D2	1050 X 2700	-	2700	BED ROOM/OFFICE	SINGLE
4	D3	900 X 2700	-	2700	ROOM/SERVANT ROOM/KITCHEN	SINGLE
5	D4	850 X 2700	-	2700	VC TOILET	SINGLE
6	D5	750 X 2700	-	2700	TOILET	SINGLE
7	SLD1	4500 X 2700	-	2700	STAIRCASE	3 TRACK
8	SLD2	2500 X 2700	-	2700	BED ROOM	3 TRACK
9	SLD3	2100 X 2700	-	2700	LOUNGE/BED ROOM/BED ROOM 3	2 TRACK
10	SLD4	1500 X 2700	-	2700	LOUNGE/SUITE/BEDROOM	2 TRACK
11	W1	2500 X 1800	800	2700	BED ROOM UPPER FLOOR	3 TRACK
12	W2	2500 X 1650	1050	2700	KITCHEN	3 TRACK
13	W3	2250 X 1800	900	2700	VC OFFICE	3 TRACK
14	W4	2100 X 1800	900	2700	BED ROOM	3 TRACK
15	W5	2050 X 1800	900	2700	LOUNGE	3 TRACK
16	W6	900 X 1800	900	2700	BED ROOM/VC OFFICE	OPENABLE
17	W7	750 X 1800	900	2700	VC OFFICE	OPENABLE
18	W8	600 X 1800	900	2700	SUITE ROOM	OPENABLE
19	W9	600 X 1650	1050	2700	UTILITY/KITCHEN	OPENABLE
20	GLD	1450 X 2700	100/00	2700	ENTRANCE	OPENABLE DOOR/FIXED WINDOW
21	GL1	3500 X 2600	100	2700	SUITE ROOM	FIXED
22	GL2	3000 X 2600	100	2700	ENTRANCE FOYER	FIXED
23	GL3	2855 X 2600	100	2700	STAIRCASE	FIXED
24	GL4	4385 X 2600	100	2700	LIVING/DINING	FIXED
25	GL5	4500 X 2600	100	2700	STAIRCASE	FIXED
26	V1	600 X 900	1800	2700	TOILET	OPENABLE
27	V2	900 X 900	1800	2700	TOILET	OPENABLE

CBLU - VC RESIDENCE
(GROUND Floor Plan)

Main House Built-up Area
GROUND FLOOR - 336.05 sqm (3,617.24 sqft)

Porch Area
68 sqm (731.95 sqft)

NOTES: 1. NGL'S ARE MARKED FROM THE SURVEY DRAWING. 2. CHECK DIMENSIONS ARE ONLY FOR CROSS CHECKING THE SITE, IF ANY DISCREPANCY FOUND, SHOULD BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE ARCHITECT/SITE ENGINEER. 3. DIMENSIONS ARE NOT TO BE SCALED. 4. CONTRACTOR MUST VERIFY ALL DIMENSIONS AT SITE BEFORE COMMENCEMENT OF ANY WORK. 5. CONTRACTOR MUST NOTIFY ARCHITECT AND/OR PROJECT MANAGER OF ALL DISCREPANCIES IN THE DRAWING. 6. ALL LEVELS GIVEN ARE FINISHED FLOOR LEVELS UNLESS MENTIONED OTHERWISE. 7. REFER THIS DRAWING ALONG WITH THE OTHER RELEVANT ARCHITECTURAL, STRUCTURAL & OTHER SERVICES DRAWINGS, BEFORE THE EXECUTION OF WORK, RELATED TO THIS DRAWING AT SITE.	KEY PLAN 	LEGEND: 	PROJECT NEW CAMPUS OF CH. BANSI LAL UNIVERSITY AT PREMI NAGAR, BHIWANI-HANSI ROAD BHIWANI-HARYANA	PROJECT MANAGEMENT CONSULTANTS WAPCOS Ltd. (A GOVERNMENT OF INDIA UNDERTAKING)	MEP CONSULTANTS GJM ARCHITECTS & PLANNERS	DRAWING ISSUED FOR TENDER PURPOSE
			CLIENT CH. BANSI LAL UNIVERSITY	ARCHITECT GPM ARCHITECTS & PLANNERS	STRUCTURAL CONSULTANT GJM ARCHITECTS & PLANNERS	SEAL & SIGN. DRAWING TITLE VC RESIDENCE GROUND FLOOR PLAN DRAWING NO.-CBLU/WAPCOS/GPM/VC/AR-101 DRAWN BY: GB CHECKED BY: SV DATE: 18.09.2025 SCALE/PAPER SIZE: 1/75/A1 REVISION:

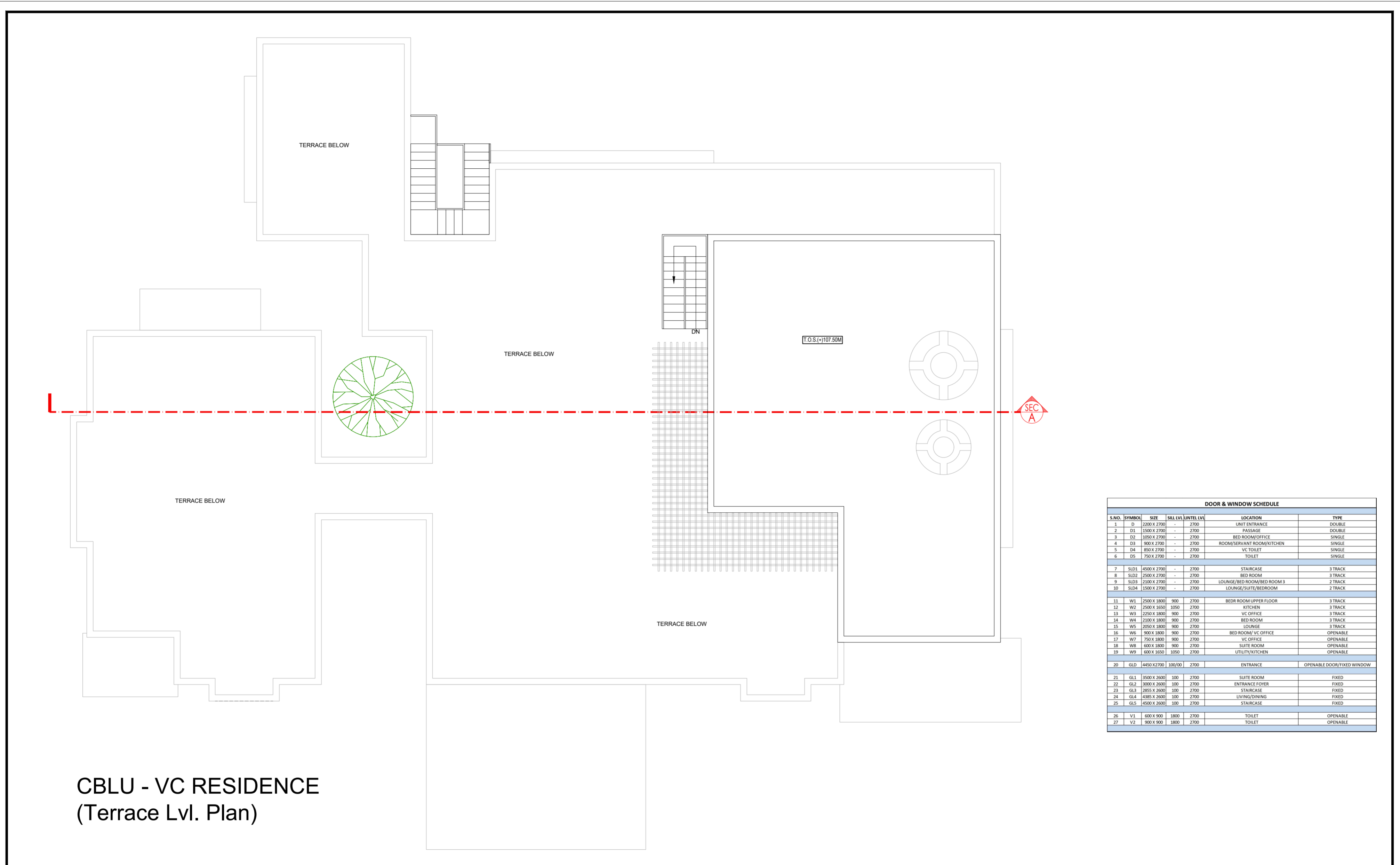


S.NO.	SYMBOL	SIZE	SHELL LVL	UNTEL LVL	LOCATION	TYPE
1	D	2500 X 2700	-	2700	UNIT ENTRANCE	DOUBLE
2	D1	1500 X 2700	-	2700	PASSAGE	DOUBLE
3	D2	1050 X 2700	-	2700	BED ROOM/OFFICE	SINGLE
4	D3	900 X 2700	-	2700	ROOM/SERVANT ROOM/KITCHEN	SINGLE
5	D4	850 X 2700	-	2700	VC TOILET	SINGLE
6	D5	750 X 2700	-	2700	TOILET	SINGLE
7	SLD1	4500 X 2700	-	2700	STAIRCASE	3 TRACK
8	SLD2	2500 X 2700	-	2700	BED ROOM	3 TRACK
9	SLD3	2100 X 2700	-	2700	LOUNGE/BED ROOM/BED ROOM3	2 TRACK
10	SLD4	1500 X 2700	-	2700	LOUNGE/SUITE/BEDROOM	2 TRACK
11	W1	2500 X 1800	900	2700	BED ROOM UPPER FLOOR	3 TRACK
12	W2	2500 X 1800	1050	2700	KITCHEN	3 TRACK
13	W3	2250 X 1800	900	2700	VC OFFICE	3 TRACK
14	W4	2100 X 1800	900	2700	BED ROOM	3 TRACK
15	W5	2050 X 1800	900	2700	LOUNGE	3 TRACK
16	W6	900 X 1800	900	2700	BED ROOM/VC OFFICE	OPENABLE
17	W7	750 X 1800	900	2700	VC OFFICE	OPENABLE
18	W8	600 X 1800	900	2700	SUITE ROOM	OPENABLE
19	W9	600 X 1650	1050	2700	UTILITY/KITCHEN	OPENABLE
20	GLD	4450 X 2700	100/00	2700	ENTRANCE	OPENABLE DOOR/FIXED WINDOW
21	GL1	3500 X 2600	100	2700	SUITE ROOM	FIXED
22	GL2	3000 X 2600	100	2700	ENTRANCE FOYER	FIXED
23	GL3	2855 X 2600	100	2700	STAIRCASE	FIXED
24	GL4	4385 X 2600	100	2700	LIVING/DINING	FIXED
25	GL5	4500 X 2600	100	2700	STAIRCASE	FIXED
26	V1	600 X 900	1800	2700	TOILET	OPENABLE
27	V2	900 X 900	1800	2700	TOILET	OPENABLE

CBLU - VC RESIDENCE
(First Floor Plan)

Main House Built-up Area
FIRST FLOOR - 135.76 sqm (1461.32 sqft)

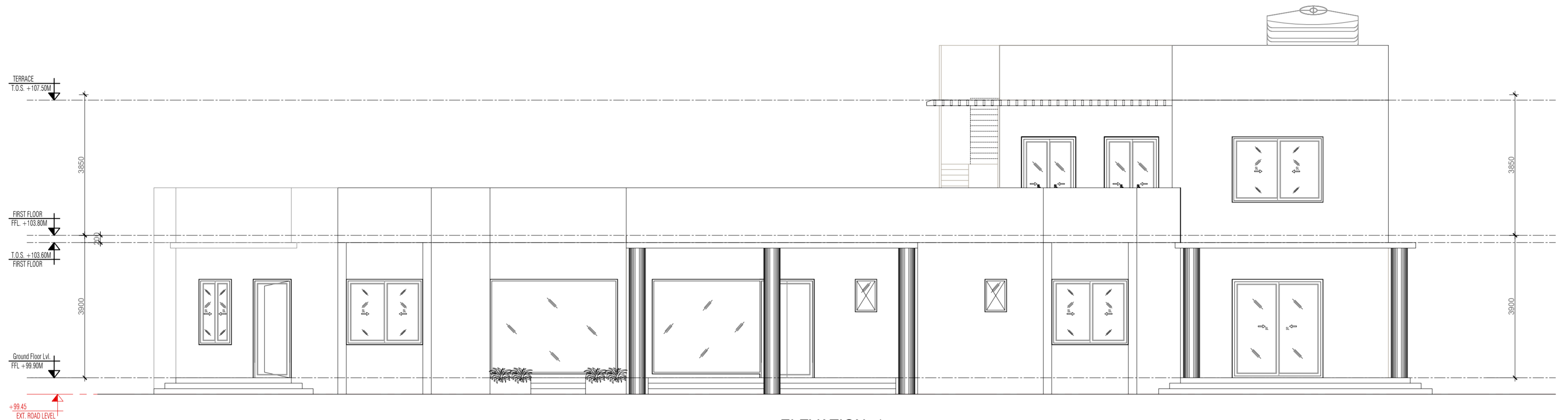
NOTES: 1. NGL'S ARE MARKED FROM THE SURVEY DRAWING. 2. CHECK DIMENSIONS ARE ONLY FOR CROSS CHECKING THE SITE, IF ANY DISCREPANCY FOUND, SHOULD BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE ARCHITECT/SITE ENGINEER. 3. DIMENSIONS ARE NOT TO BE SCALED. 4. CONTRACTOR MUST VERIFY ALL DIMENSIONS AT SITE BEFORE COMMENCEMENT OF ANY WORK. 5. CONTRACTOR MUST NOTIFY ARCHITECT AND/OR PROJECT MANAGER OF ALL DISCREPANCIES IN THE DRAWING. 6. ALL LEVELS GIVEN ARE FINISHED FLOOR LEVELS UNLESS MENTIONED OTHERWISE. 7. REFER THIS DRAWING ALONG WITH THE OTHER RELEVANT ARCHITECTURAL, STRUCTURAL & OTHER SERVICES DRAWINGS, BEFORE THE EXECUTION OF WORK, RELATED TO THIS DRAWING AT SITE.	KEY PLAN 	LEGEND: 	PROJECT NEW CAMPUS OF CH. BANSI LAL UNIVERSITY AT PREM NAGAR, BHIWANI-HANSI ROAD BHIWANI-HARYANA	PROJECT MANAGEMENT CONSULTANTS WAPCOS Ltd. (A GOVERNMENT OF INDIA UNDERTAKING)	MEP CONSULTANTS GPM	DRAWING ISSUED FOR TENDER PURPOSE
			CLIENT CH. BANSI LAL UNIVERSITY	ARCHITECT GPM	STRUCTURAL CONSULTANT GPM	SEAL & SIGN. DRAWING TITLE VC RESIDENCE FIRST FLOOR PLAN DRAWING NO.-CBLU/WAPCOS/GPM/VC/AR-102 DRAWN BY: GB CHECKED BY: SV DATE: 18.09.2025 SCALE/ PAPER SIZE: 1/75/A1 REVISION:



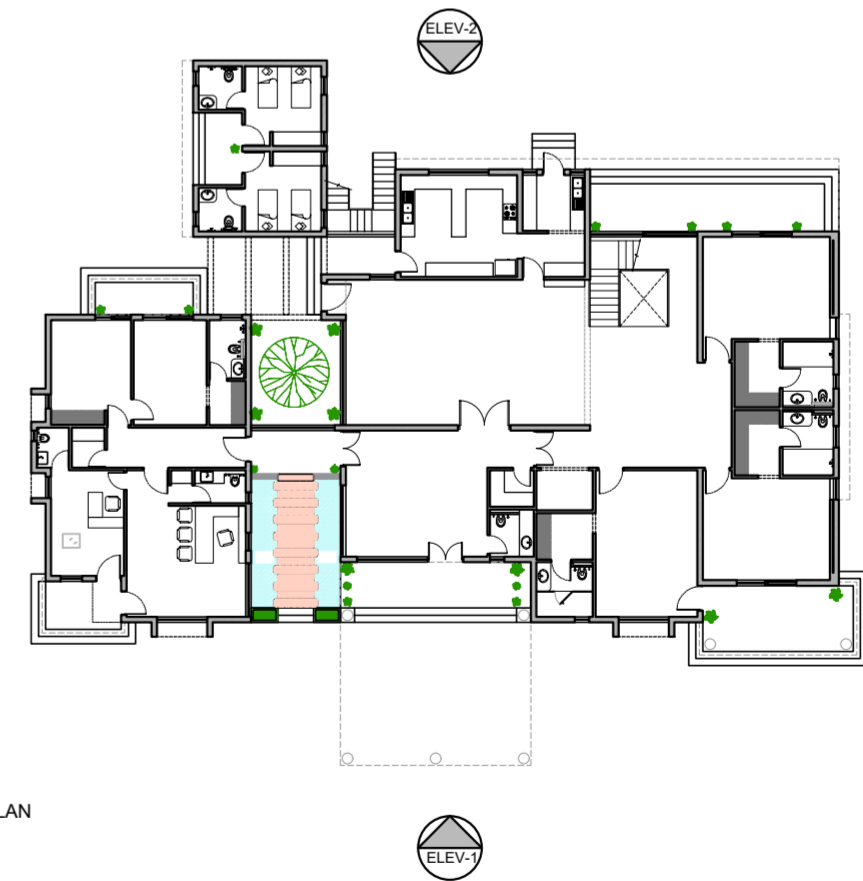
DOOR & WINDOW SCHEDULE						
S.NO.	SYMBOL	SIZE	SHL LVL	UNTEL LVL	LOCATION	TYPE
1	D	2500 X 2700	-	2700	UNIT ENTRANCE	DOUBLE
2	D1	1500 X 2700	-	2700	PASSAGE	DOUBLE
3	D2	1050 X 2700	-	2700	BED ROOM/OFFICE	SINGLE
4	D3	900 X 2700	-	2700	ROOM/SERVANT ROOM/KITCHEN	SINGLE
5	D4	850 X 2700	-	2700	VC TOILET	SINGLE
6	D5	750 X 2700	-	2700	TOILET	SINGLE
7	SLD1	4500 X 2700	-	2700	STAIRCASE	3 TRACK
8	SLD2	2500 X 2700	-	2700	BED ROOM	3 TRACK
9	SLD3	2100 X 2700	-	2700	LOUNGE/BED ROOM/BED ROOM3	2 TRACK
10	SLD4	1500 X 2700	-	2700	LOUNGE/SUITE/BEDROOM	2 TRACK
11	W1	2500 X 1800	900	2700	BED ROOM UPPER FLOOR	3 TRACK
12	W2	2500 X 1050	1050	2700	KITCHEN	3 TRACK
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14	W4	2100 X 1800	900	2700	BED ROOM	3 TRACK
15	W5	2050 X 1800	900	2700	LOUNGE	3 TRACK
16	W6	900 X 1800	900	2700	BED ROOM/VC OFFICE	OPENABLE
17	W7	2700 X 1800	900	2700	VC OFFICE	OPENABLE
18	W8	600 X 1800	900	2700	SUITE ROOM	OPENABLE
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20	GLD	4450 X 2700	100/00	2700	ENTRANCE	OPENABLE DOOR/FIXED WINDOW
21	GL1	3500 X 2600	100	2700	SUITE ROOM	FIXED
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23	GL3	2855 X 2600	100	2700	STAIRCASE	FIXED
24	GL4	4385 X 2600	100	2700	LIVING/DINING	FIXED
25	GL5	4500 X 2600	100	2700	STAIRCASE	FIXED
26	V1	600 X 900	1800	2700	TOILET	OPENABLE
27	V2	900 X 900	1800	2700	TOILET	OPENABLE

CBLU - VC RESIDENCE
(Terrace Lvl. Plan)

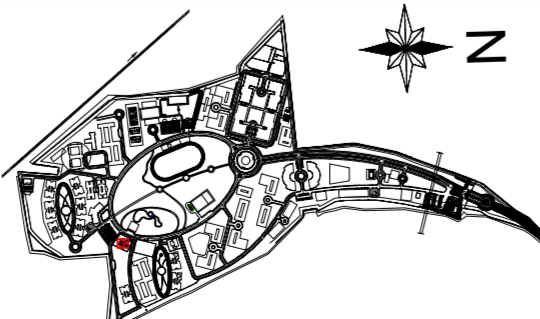




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			CLIENT CH. BANSI LAL UNIVERSITY	ARCHITECT GPM GIAN P. MATHER AND ASSOCIATES (P) LTD. C-55, East Of Kailash, New Delhi-110065 T: 46599591 F: 46599512 E: info@gpmindia.com I W: www.gpmindia.com	STRUCTURAL CONSULTANT GPM GIAN P. MATHER AND ASSOCIATES (P) LTD. C-55, East Of Kailash, New Delhi-110065 T: 46599591 F: 46599512 E: info@gpmindia.com I W: www.gpmindia.com	SEAL & SIGN.

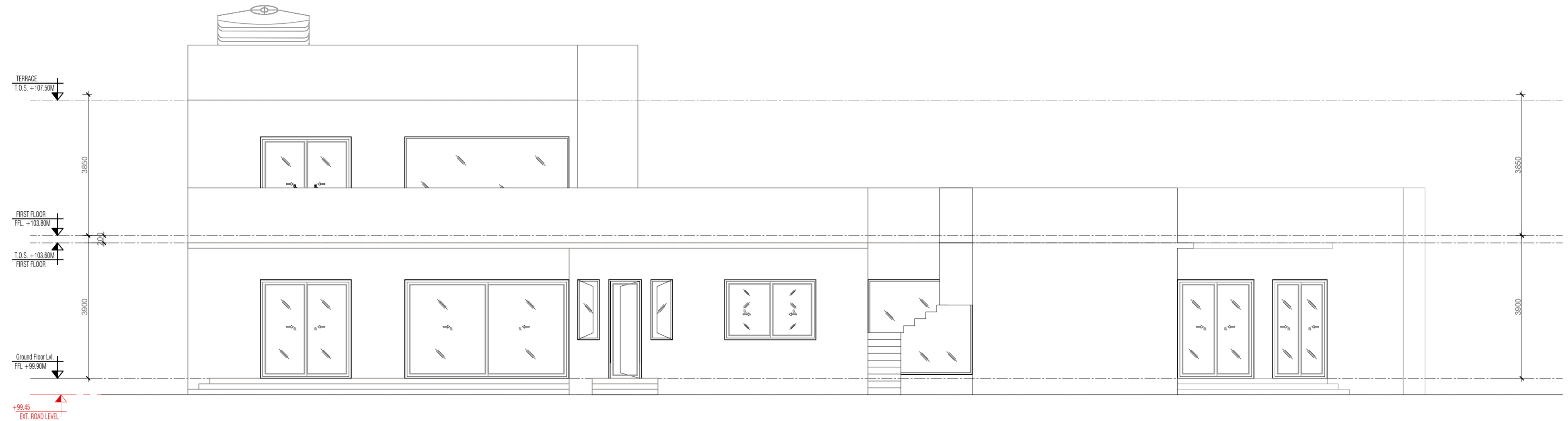


ELEVATION -1

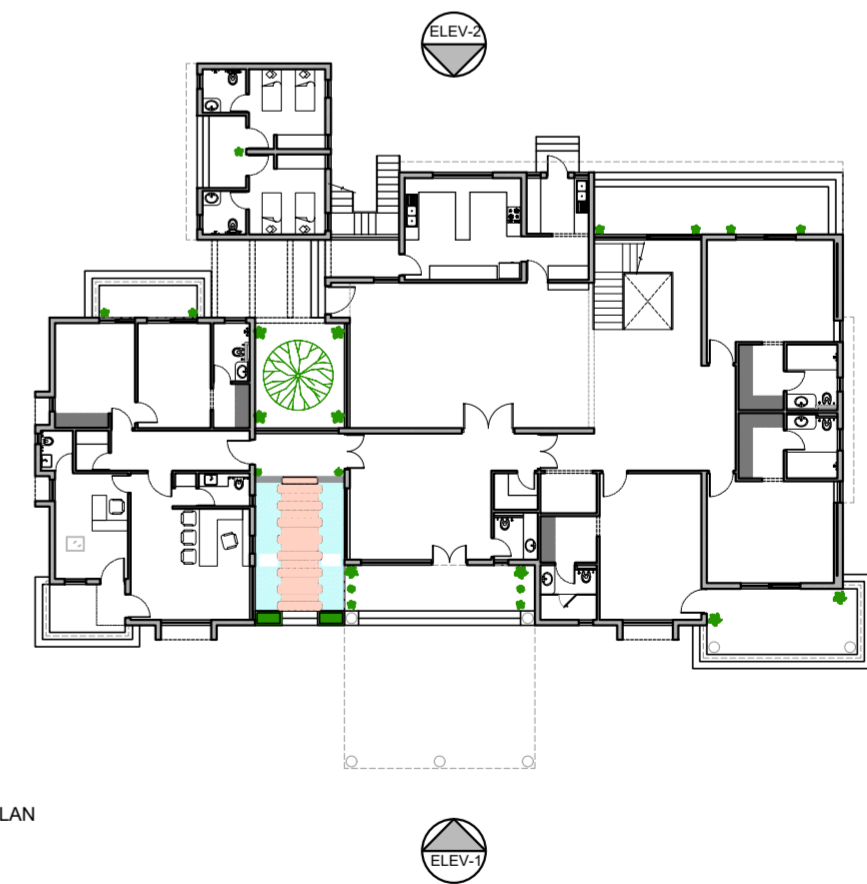


KEY PLAN

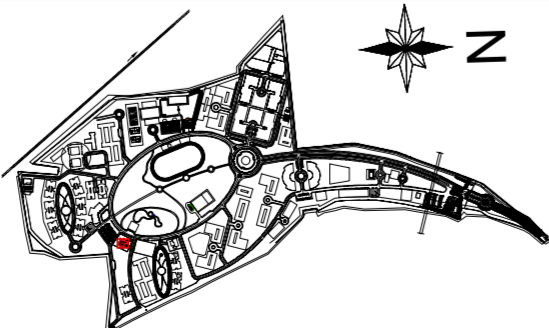




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			CLIENT  CH. BANSI LAL UNIVERSITY	ARCHITECT  GIAN P. MATHER AND ASSOCIATES (P) LTD. C-55, East Of Kailash, New Delhi-110065 T: 46599591 F: 46599512 E: info@gemindia.com I W: www.gemindia.com	STRUCTURAL CONSULTANT  GIAN P. MATHER AND ASSOCIATES (P) LTD. C-55, East Of Kailash, New Delhi-110065 T: 46599591 F: 46599512 E: info@gemindia.com I W: www.gemindia.com	SEAL & SIGN.		DRAWN BY GB

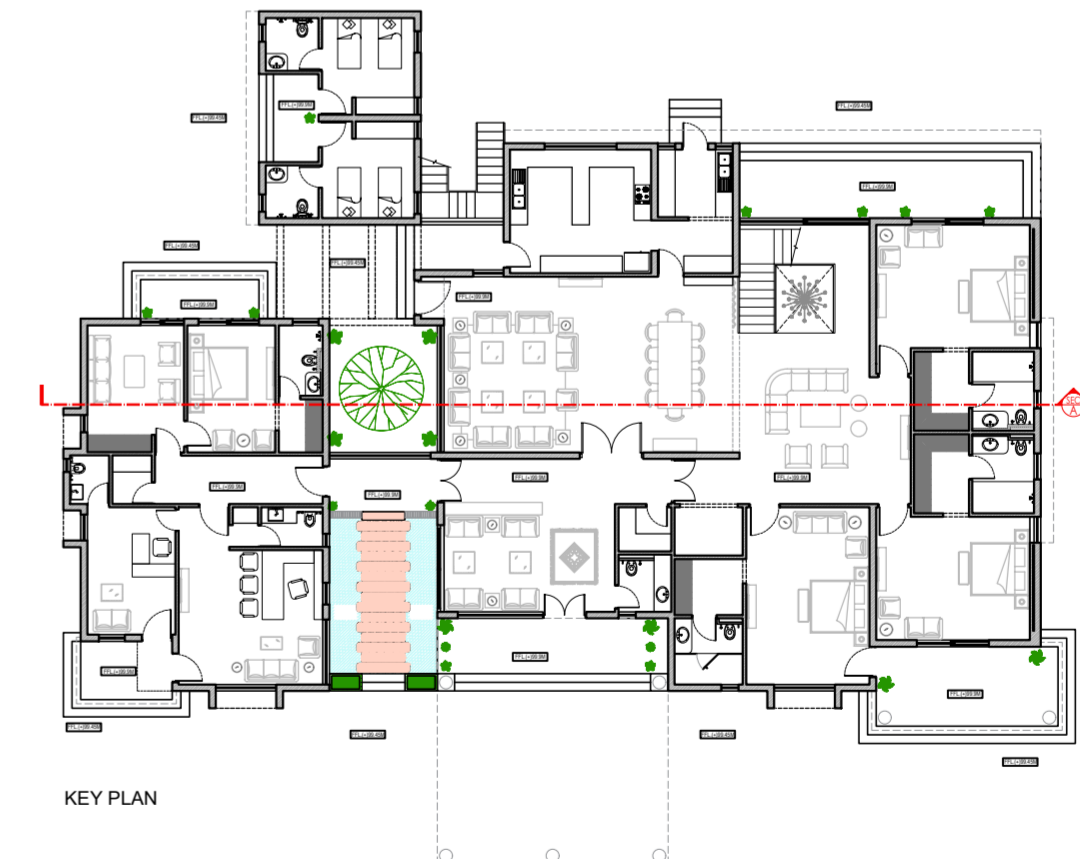
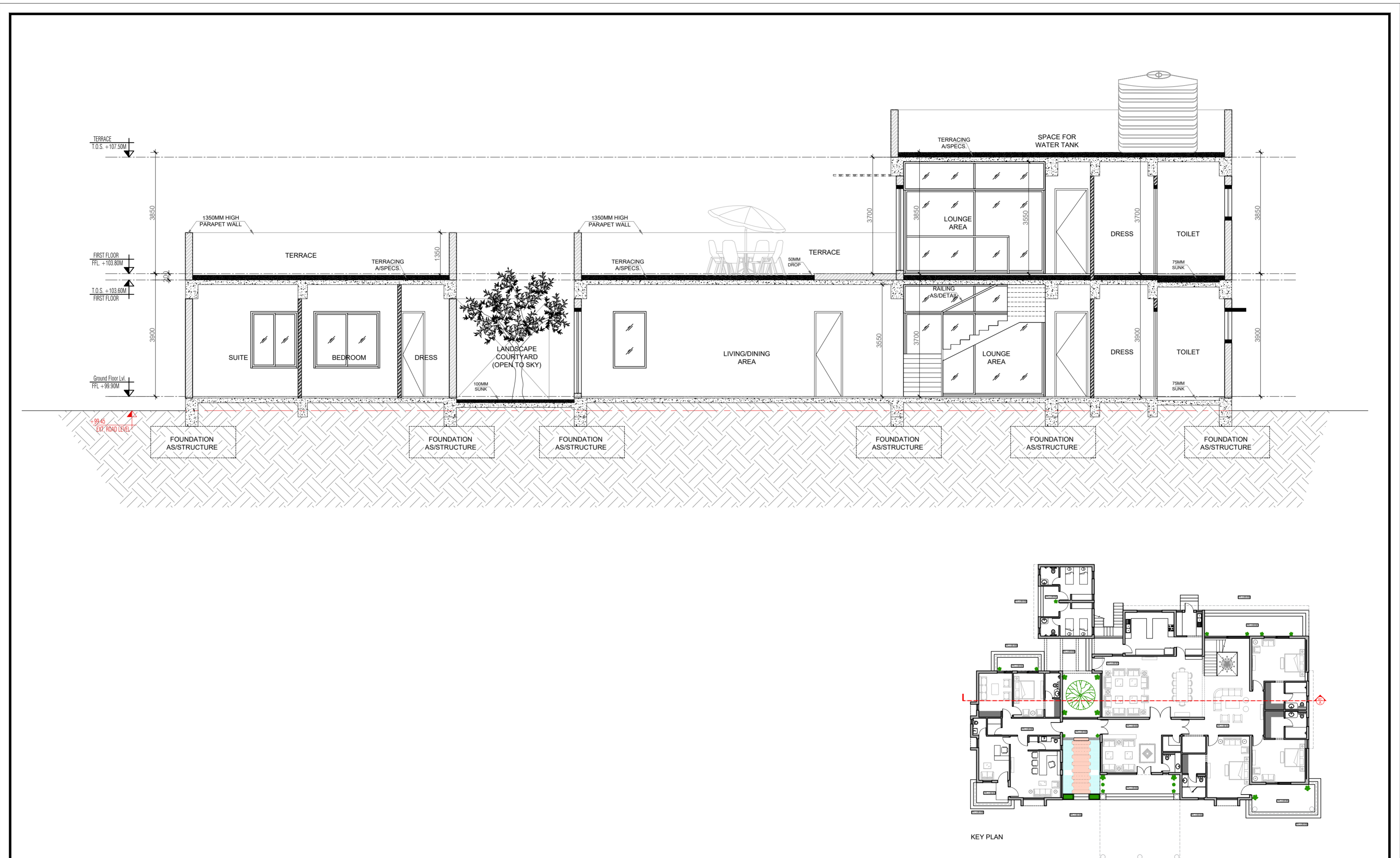


ELEVATION -2



KEY PLAN

NOTES: 1. NGL'S ARE MARKED FROM THE SURVEY DRAWING. 2. CHECK DIMENSIONS ARE ONLY FOR CROSS CHECKING THE SITE, IF ANY DISCREPANCY FOUND, SHOULD BE IMMEDIATELY BROUGHT TO THE NOTICE OF THE ARCHITECT/SITE ENGINEER. 3. DIMENSIONS ARE NOT TO BE SCALED. 4. CONTRACTOR MUST VERIFY ALL DIMENSIONS AT SITE BEFORE COMMENCEMENT OF ANY WORK. 5. CONTRACTOR MUST NOTIFY ARCHITECT AND/OR PROJECT MANAGER OF ALL DISCREPANCIES IN THE DRAWING. 6. ALL LEVELS GIVEN ARE FINISHED FLOOR LEVELS UNLESS MENTIONED OTHERWISE. 7. REFER THIS DRAWING ALONG WITH THE OTHER RELEVANT ARCHITECTURAL, STRUCTURAL & OTHER SERVICES DRAWINGS, BEFORE THE EXECUTION OF WORK, RELATED TO THIS DRAWING AT SITE.	KEY PLAN 	LEGEND: 	PROJECT NEW CAMPUS OF CH. BANSI LAL UNIVERSITY AT PREM NAGAR, BHIWANI-HANSI ROAD BHIWANI-HARYANA	PROJECT MANAGEMENT CONSULTANTS  WAPCOS Ltd. (A GOVERNMENT OF INDIA UNDERTAKING)	MEP CONSULTANTS 	DRAWING ISSUED FOR 	DRAWING TITLE VC RESIDENCE ELEVATION 2 DRAWING NO.-CBLU/WAPCOS/GPM/VC/AR-105	
			CLIENT  CH. BANSI LAL UNIVERSITY	ARCHITECT  GPM ARCHITECTS & PLANNERS <small>GIAN P. MATHER AND ASSOCIATES (P) LTD. C-55, East Of Kailash, New Delhi-110065 T: 46599591 F: 46599512 E: info@gpmindia.com I W: www.gpmindia.com</small>	STRUCTURAL CONSULTANT 	SEAL & SIGN. 		DRAWN BY GB



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			CLIENT CH. BANSI LAL UNIVERSITY	ARCHITECT GPM ARCHITECTS & PLANNERS GIAN P. MATHER AND ASSOCIATES (P) LTD. C-55, East Of Kailash, New Delhi-110065 T: 465995901 F: 46599512 E: info@geminda.com I W : www.geminda.com	STRUCTURAL CONSULTANT GPM ARCHITECTS & PLANNERS GIAN P. MATHER AND ASSOCIATES (P) LTD. C-55, East Of Kailash, New Delhi-110065 T: 465995901 F: 46599512 E: info@geminda.com I W : www.geminda.com	SEAL & SIGN.	

SECTION – IX

FINANCIAL PROPOSAL

SUMMARY OF COST FOR ITEM RATE TENDER

Description	Total Quoted Price in Figure (Excluding GST) (Rs.)
Construction of Teaching Block-3 & Other Infrastructure Works at Chaudhary Bansi Lal University (CBLU), Prem Nagar, Bhiwani (Haryana)	DO NOT FILL COST HERE

Note:-

- The rate(s) must be quoted in max. 2 decimal place.
- Each individual head of work should be considered separately and quantity will not be merged.
- During Assessment of Deviation in Quantity, as per the limit mentioned in Special Condition of Contract, the quantity of particular item in particular head will only be considered for calculation of Allowable Deviated Quantity.
- The “Estimated Rate Without GST (INR)” considered & mentioned in the Bill of Quantity are for support of bidder during quoting the rates for particular item of work. No any dispute & claim in this regard shall be entertained. The bidder may quote any rate as per the assessment made by bidder to execute the particular item of work.
- Prices quoted by the Bidder shall include all Materials, Tools & Plant, labour, supervision, profit; other levies together with all general risks, liabilities and obligations set out or implied in the contract, applicable Labour Cess, cost of insurance to this contract, all applicable tax liabilities like Income Tax & Surcharges, etc. Any other taxes /cess as per Government directives shall be deducted from each bill paid to the Contractor, from time to time. GST shall be payable extra as per prevailing rates. 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 Contractor shall issue Tax Invoices to the Employer showing (i) Basic amount (ii) GST amount separately in each bill. 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.

SECTION – X

Detailed Bill of Quantities

TOTAL COST FOR GIRLS HOSTEL & VC RESIDENCE

S. NO.	DESCRIPTION	AMOUNT WITHOUT GST (INR)	REMARKS
1	Cost of Girls Hostel with Warden residence, boundary wall & allied works (without GST)		Annexure-A
2	Cost of VC residence & allied works (without GST)		Annexure-B
Total Cost without GST (1+2)			

ABSTRACT OF COST FOR GIRLS HOSTEL

S. NO.	DESCRIPTION	AMOUNT WITHOUT GST	REMARKS
1	CIVIL WORKS		Annexure-1
I	SUB HEAD I - EARTH WORKS		
II	SUB HEAD II - CONCRETE WORK		
III	SUB HEAD III - R.C.C WORKS		
IV	SUB HEAD IV - BRICK WORK		
V	SUB HEAD V - STONE WORK		
VI	SUB HEAD VI - FLOORING		
VII	SUB HEAD VII - FINISHING		
VIII	SUB HEAD VIII - WOOD WORK & PVC WORK		
IX	SUB HEAD IX- STEEL WORK		
X	SUB HEAD X- WATER PROOFING		
XI	SUB HEAD XI- ROAD WORK		
XII	SUB HEAD XII- NON SCHEDULE ITEMS		
	TOTAL CIVIL		
2	PLUMBING & FIREFIGHTING WORKS		Annexure-2
I	SANITARY FIXTURES & CP BRASS FITTINGS		
II	SOIL, WASTE, VENT PIPE		
III	RAIN WATER PIPES		
IV	WATER SUPPLY SYSTEM		
V	SEWERAGE AND DRAINAGE		
VI	FIRE		
	TOTAL PLUMBING		
3	ELECTRICAL WORKS		Annexure-3
I	DISTRIBUTION BOARDS		
II	POINT WIRING		
III	SUPPLY OF LIGHT FIXTURE AND FANS		
IV	DATA AND TELEPHONE NETWORK		
V	LT & HT CABLE		
VI	EARTHING AND MISCELLANEOUS ITEMS		
VII	LIGHTNING PROTECTION SYSTEM		
VIII	EARTHING STRIP		
IX	DISTRIBUTION BOARDS		
X	LIGHT FIXTURE		
XI	DATA AND TELEPHONE NETWORK		
XII	IP CCTV SYSTEM		
XIII	CSS, MAIN LT PANEL AND MAIN DISTRIBUTION BOARD		
XIV	EARTHING AND MISCELLANEOUS ITEMS		
XV	UPS		
XVI	DG SETS		
XVII	FIRE ALARM AND DETECTION SYSTEM		
	TOTAL ELECTRICAL		
	G.TOTAL (Civil + Plumbing & Firefighting + Electrical) without GST		

CIVIL WORKS FOR GIRLS HOSTEL							
S. No.	HSR 2021/NS	DESCRIPTION OF ITEM	UNIT	QTY	ESTIMATED RATE WITHOUT GST (INR)	QUOTED RATE WITHOUT GST (INR)	AMOUNT OF ITEMS (INR)
I		SUB HEAD I - EARTH WORKS					
1	4.12	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.					
		All kinds of soil	cum	2984.08	77.68		
2	4.32	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 m and lift upto 1.5 m.	cum	2984.08	46.43		
3	4.39	Providing and injecting chemical emulsion for PRE- sqm CONSTRUCTIONAL anti termite treatment and creating a chemical barrier under and around the column pits, wall trenches, basement excavation, top surface of plinth filing junction of wall and floor, along with the external perimetre of building, expansion joints surrounding of pipes and conduit etc, complete (plinth area of the building at ground floor only shall be measured) using Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	sqm	1601.29	283.93		
4	6.13	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	Sqm	168.02	306.25		
5	RM079	Earth Cost or compensation for earth taken from private land	Cum	250.00	17.86		
6	3.1.2 (i)	Carriage of earth upto 5 km	Cum	250.00	83.04		
	3.1.2 (ii)	Carriage of earth beyond 5km upto 10 km	Cum	250.00	31.25		
	3.1.2 (iii)	Carriage of earth beyond 5km upto 15 km	Cum	250.00	26.79		
7	17.8.1	Extra for laying earth/fly ash as per specifications in 20 cm layers and dressing but excluding the cost of rolling	Cum	250.00	48.21		
8	17.8.2	Extra for watering the earth/fly ash laid in 20 cm layers as per specifications	Cum	250.00	26.79		
9	17.8.3	Extra for rolling to specifications	Cum	250.00	27.68		
10	26.4.3	Clearing jungle manually including uprooting rank sqm vegetation , grass, woody vegetation up to 30cm girth measured at height 1 m above ground level and removal of rubbish up to a distance of 50 m out side the periphery of the area cleared	sqm	2000.00	6.25		
		SUB TOTAL-I					
II		SUB HEAD II - CONCRETE WORK					
1	6.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
		All works up to plinth level:					
	6.1.6	1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	cum	371.22	2441.96		

		SUB TOTAL-II					
III		SUB HEAD III - R.C.C WORKS					
1	6.3	Centering and shuttering including strutting, propping etc. and removal of form for					
i	6.30.1	Foundations, footings, bases of columns, etc. for mass concrete	sqm	716.34	156.25		
ii	6.30.2	Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.	sqm	126.08	282.14		
iii	6.30.3	Suspended floors, roofs, landings, balconies and access platform	sqm	4089.61	208.04		
iv	6.30.4	Shelves (Cast in situ)	sqm	447.24	223.21		
v	6.30.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	4575.27	296.43		
vi	6.30.6	Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	3099.58	261.61		
2	6.33	Steel reinforcement for R.C.C. work, where not included in the complete rate of RCC, including straightening, cutting, bending, placing in position, binding, wastage, overlaps, welded joints, spacer bars, chairs, stays, hangers and annealed steel wire etc. complete in all respect below plinth level. Note:- Reinforcement shall be measured in length including hooks, if any, separately for different diameters as actually used in work , excluding overlaps. Wastage, overlaps, couplings, welded joints, spacer bars, chairs, stays, hangers and annealed steel wire or other methods of binding & placing shall not be measured and cost of these items shall be deemed to be included in the rates for reinforcement.					
	6.33.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	145937.00	66.07		
3	6.34	Steel reinforcement for R.C.C. work, where not included in the complete rate of RCC, including straightening, cutting, bending, placing in position, binding, wastage, overlaps, welded joints, spacer bars, chairs, stays, hangers and annealed steel wire etc. complete in all respect above plinth level. Note:- Reinforcement shall be measured in length including hooks, if any, separately for different diameters as actually used in work , excluding overlaps. Wastage, overlaps, couplings, welded joints, spacer bars, chairs, stays, hangers and annealed steel wire or other methods of binding & placing shall not be measured and cost of these items shall be deemed to be included in the rates for reinforcement.					
	6.34.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	166960.00	67.86		
4	6.25	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Less cement used as per design mix is recoverable. However no extra payment shall be made if excess cement is used as per design mix).					
	6.25.1	All works upto plinth level	Cum	1306.54	4463.39		
	6.25.2	All works above plinth level upto floor IV level	Cum	1293.37	4500.89		
5	6.26	Extra for providing richer mixes up to plinth and at all floor levels. (Note :- Less cement used as per design mix is recoverable. However no extra payment shall be made if excess cement is used as per design mix).					
	6.26.1	Providing M-30 grade concrete instead of M-25 grade BMC/ RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum	Cum	2249.50	58.93		

	6.26.2	Providing M-35 grade concrete instead of M-25 grade BMC/ RMC. (Note : Cement content considered in M-35 is @ 350kg/cum	Cum	325.41	118.75		
		SUB TOTAL-III					
IV		SUB HEAD IV - BRICK WORK					
1	7.47	Brick work with non modular fly ash bricks conforming to IS :12894, class designation 10 average compressive strength in super structure above plinth level up to floor IV level in :					
	7.47.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	1712.99	4070.54		
2	7.48	Brick work with modular extruded brunt fly ash clay sewer bricks (Conforming to IS: 4885) in cement mortar 1 :4 (1 cement : 4 coarse sand) in foundation and plinth :					
	7.48.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	197.97	4131.25		
3	7.31	Half brick masonry with non modular fly ash bricks of class designation 10, conforming IS :12894, in super structure above plinth and up to floor IV level.					
	7.31.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	988.57	474.11		
4	7.30	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry.	Sqm	988.57	75.00		
		SUB TOTAL-IV					
V		SUB HEAD V - STONE WORK					
1	8.26	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.(Note: Sample to be approved by Eingneer in-charge)					
		Granite of any color and shade-Kitchen/Toilet Counters/sill/Coping					
	8.26.2.2	Area of slab over 0.50 sqm	sqm	86.00	2775.89		
2	8.27	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.					
	8.27.2	Granite work-Kitchen/Toilets Counter	meter	31.53	229.46		
3	8.28	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	each	32.00	392.86		
		SUB TOTAL-V					
VI		SUB HEAD VI - FLOORING					
1	10.10	Providing and laying Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.					
	10.10.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm	140.58	267.86		
2	10.29	Providing and laying of chequered terrazo tiles 20 to 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) : (Ramp)					

	10.29.2	Medium shade pigment using 50% white cement, 50% ordinary cement	Sqm	8.37	792.86		
3	10.5	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.					
	10.50.1	Polished Granite stone slab jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	sqm	654.31	2706.25		
4	10.51	Providing and fixing granite stone in all shades 15mm to 18 mm thick in skirting /dado, risers of steps, pillars and wall facing, laid in any pattern as specified over base of 12mm thick cement coarse sand mortar 1:3 and jointed with white cement slurry mixed with pigment to match the shade of Granite including labour for fixing cramps pins and dowels etc.	sqm	76.07	2533.93		
5	10.58	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	1121.92	538.39		
6	10.76	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 (BIS 15658:2006) 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. (Entrance Porch)	sqm	23.39	556.25		
7	10.63	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 @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.					
8	10.63.2	Size of Tile 600x600 mm	Sqm	1776.91	986.61		
9	10.67	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.					
10	10.67.2	Size of Tile 600x600 mm	Sqm	232.90	1003.57		
11	6.1.4	Cement concrete flooring 1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)- (Toilet Screeding)	Cum	7.61	2910.71		
12	10.37	Providing and fixing of 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) : (Kitchen,Dinning, Corridor)					
	10.37.1	25 mm thick	sqm	1026.00	790.18		

13	10.38	Providing and fixing of Kota stone slabs 20 mm thick in risers of steps, sqm 365 571 936 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	130.05	835.71		
14	10.107	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS:15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1 : 4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge. (Corridor)	sqm	153.74	1604.46		
		SUB TOTAL-VI					
VII		SUB HEAD VII - FINISHING					
1	11.1	6 mm cement plaster of mix :					
	11.1.1	1:3 (1 cement : 3 fine sand)	Sqm	4265.10	96.43		
2	11.8	12 mm cement plaster of mix :					
	11.8.2	1:6 (1 cement: 6 coarse sand) (Raft and Internal; Walls)	Sqm	12116.10	105.36		
3	11.9	15 mm cement plaster on rough side of single or half brick wall of mix:					
	11.9.2	1:6 (1 cement: 6 coarse sand)	Sqm	2123.79	127.68		
4	11.18	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	Sqm	6148.27	165.18		
5	11.74	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.					
	11.74.2	Two coats	Sqm	5246.62	38.39		
6	11.82	Painting the wooden / metal surface with synthetic enamel paint of approved brand and manufacture to give an even shade :					
	11.82.1	Two or more coats on new work	Sqm	1507.61	49.11		
7	11.91	Melamine polishing on wood work (one or more coat).	Sqm	200.00	56.25		
8	11.64	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade :					
	11.64.1	New work (two or more coats) over and including water thinnable priming coat with cement primer	Sqm	10727.50	44.64		
9	11.61	White washing with lime to give an even shade :					
	11.61.1	New work (three or more coats)	sqm	491.46	13.39		
10	11.96	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					
	11.96.1	New work (Two or more coats applied @ 1.43 litre/10 sqm over sqm 33 61 95 and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	sqm	6148.27	84.82		
11	11.58	Providing and applying two coats white cement based putty of approved brand and manufacturer, over plastered surface and grinding the surface smooth with sand paper to get an even and smooth finish including cost and carriage of all material , labour charges, scaffolding, sundries etc. complete	sqm	20489.44	32.14		
12	11.54	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. metre 35 35 projections	meter	1806.00	31.25		
13	11.67	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:					

	11.67.1	Water thinnable cement primer	sqm	3614.28	22.32		
		SUB TOTAL-VII					
VIII		SUB HEAD VIII - WOOD WORK & PVC WORK					
1	12.37	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:					
i	12.37.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	603.78	1400.00		
ii	12.37.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	Sqm	587.57	1316.07		
2	12.39	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	1191.35	348.21		
3	12.12	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.					
	12.12.2	1.0 mm thick	sqm	1506.82	459.82		
4	12.53	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.					
	12.53.2	With 12 mm mild steel U beading	sqm	26.25	505.36		
5	12.98	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					
i	12.98.1	300x16 mm	each	10	200.89		
ii	12.98.2	250x16 mm	each	650.00	178.57		
6	12.99	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 :					
i	12.99.1	300X10mm	each	461.00	95.54		
ii	12.99.3	200X10mm	each	237.00	72.32		
7	12.102	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 :					
	12.102.1	125mm	each	1258.00	49.11		
8	12.103	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.					
	12.103.1	Single rubber stopper	each	345.00	27.68		
9	12.105	Providing and fixing bright finished brass 100 mm mortice latch and lock, ISI marked, with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles of approved quality with necessary screws etc. complete.	each	15	570.54		

10	12.157	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) :					
	12.157.1	For fixed portion					
	12.157.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	11300.55		350.00	
11	12.157.2	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)					
	12.157.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	5138.70		402.68	
12	12.159	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):					
	12.159.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	Sqm	285.45		666.96	
13	12.171	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).(Entrance)	Sqm	7.56		3414.29	
14	12.89	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	each	4.00		700.89	
15	12.37	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:					
		SUB TOTAL-VIII					
IX		SUB HEAD IX- STEEL WORK					
		PRE-PAINTED / POWDER COATED GALVANISED SHEET DOOR/WINDOW FRAMES AND WINDOW SHUTTERS					
1	13.29	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.					
	13.29.1	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete					
	13.29.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works(Staircase Railing,Fencing Frame,shed at cooking area)	kg	15306.62		83.04	

2	13.5	Providing and fixing carbon steel galvanised (minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm2), counter sunk head, comprising of 10 mm dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/ masonry, etc. as per direction of Engineer-in-charge.					
i	13.5.2	10 x 80 mm-For Fixing MS Railings	each	5109.44	63.39		
ii	13.5.3	10 x 120 mm	each	1242.00	77.68		
3	13.4	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.					
	13.4.2	Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	kg	3164.94	94.64		
4	13.35	Providing and fixing in position collapsible steel shutters with vertical sqm channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	Sqm	26.63	4674.11		
		SUB TOTAL-IX					
X		SUB HEAD X - WATER PROOFING					
1	28.15	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry. (Toilet + Balcony + Kitchen)	sqm	936.69	233.04		
		WATERPROOFING TREATMENT TO TERRACE AREA USING TWO COMPONENT 100% SOLIDS HYBRID POLYUREA COATING					

2	28.17	<p>Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:</p> <p>(a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls up to 300 mm height including cleaning the surface before treatment.</p> <p>(b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1 :5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1 :5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls up to 300 mm height including rounding of junctions of walls and slabs.(c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge.</p> <p>(d) Finishing the surface with 20 mm thick joint less cement mortar of mix 1 :4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.</p> <p>(e) The whole terrace so finished shall be flooded with water for a minimum</p>					
	28.17.1	With average thickness of 120 mm and minimum thickness at sqm khurra as 65 mm.	sqm	1458.36	664.29		
3	28.18	<p>Providing and mixing integral crystalline admixture for water proofing treatment to RCC structures like basement raft, retaining walls, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc. at the time of transporting of concrete into the drum of the ready-mix truck , using integral crystalline admixture @0.80% (minimum) to the weight of cement content per cubic meter of concrete) or higher as recommended by the manufacturer's specification in reinforced cement concrete at site of work. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e. by reducing permeability of concrete by more than 90%, compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure. The crystalline admixture shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.</p>	kg	45.00	322.32		

4	28.20	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.					
i	28.20.1	For vertical surface two coats @ 0.70 kg per sqm	Sqm	72.71	398.21		
ii	28.20.2	For horizontal surface one coat @1.10 kg per sqm	Sqm	203.56	310.71		
		SUB TOTAL-X					
XI		SUB HEAD XI - ROAD WORK					
1	17.5.3	Compaction of & preparation of sub grade including loosening, levelling of earth 225 mm thick top layer, rough dressing of soil, final dressing of earth to give level, camber, watering, rolling with road roller, compacting the bed to achieve minimum dry density as given in the Table 3000-2 as per technical clause 305 of MORT&H specifications (in case of link roads earthwork to be done by villagers)	Sqm	848.23	7.14		

2	17.14	Granular Sub-Base with Close Graded Material (Table:- 400-1) Plant mix method Construction of granular sub-base by providing Material as per Grading III (Table 400-1 of MORT&H 5th revision) mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per technical clause 401 of MORT&H specifications					
i	17.14.3	Grading III material	Cum	358.97	1196.43		
3	10.2	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	119.00	825.89		
4	6.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
	6.1.6	1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	Cum	155.95	2441.96		
		KERB STONE WORK					
5	6.39	Providing and fixing at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1 :3 (1 Cement : 3 coarse sand), including the cost of required centering, shuttering complete.					
	6.39.1	1:1½ :3 (1 Cement: 1½ coarse sand(zone-111) : 3 cum graded stone aggregate 20 mm nominal size).	Cum	22.75	4134.82		
6	10.77	Providing and laying 80mm thick factory made cement concrete interlocking s paver block of M -35 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over (BIS 15658:2006) and including 60mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	1346.09	636.61		
7	16.53	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of concertina coil 600 mm dia 10 metre openable length (total lengthconcertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	rmt	310.00	216.07		
8	6.34.6	Steel reinforcement for R.C.C. work including straightening, cutting, Banding, placing in position and binding all complete .	Kgs	3837.60	67.86		

9	17.45	Cement Concrete Pavement Construction of un-reinforced M-40 grade concrete pavement with dowel jointed, over a prepared sub base with 43 grade OPC cement concrete coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a fully computerised batching and mixing plant as per approved mix design, transported to site in transit mixer with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing, complete as per clause 602 of MORT&H specifications.	Cum	95.94	5268.75		
		SUB TOTAL-XI					
XII		SUB HEAD XII -Non Scheduled Items					
1	NS-1	Making & Finishing Nosing as per Drawing & Details in Granite tread	meter	474.60	78.81		
2	NS-2	Providing and laying vitrified floor tiles (Mat Finish) 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 colors and shades, laid with approved make adhesive or 1:3 cement mortar including providing 3mm X 3mm spacers on all sides of tile joints etc. complete. including grouting the joints with epoxy grout.					
		Size of Tile 600x600 mm (Toilet)	sqm	603.55	875.42		
3	N.S-3	Providing and fixing bright /matt finished Stainless Steel (Grade 316) handles of approved quality & make with necessary screws etc. all complete. 300mm long as per approved Design(make) for Glass door shutter					
	i	Glass door shutter	set	4.00	2878.81		
4	N.S-4	Providing and fixing bright /matt finished Stainless Steel Locking arrangement in glass shutters of approved quality & make with necessary screws etc. all complete of approved Design & make)	nos	4.00	3808.47		
5	N.S-5	Providing and fixing SS Metallic Door stopper (semi circular shape) fixed on Granite/Tile flooring with necessary	nos	4.00	336.44		
6	N.S-6	Providing and fixing 12 mm thick toughened glass of approved brand and manufacture, in Panels at the entry wall of Officers cabin of level including necessary beading with screws & sealing of all joints with DOW cornice sealant or equivalent as per approved drawing & Design etc. to the entire satisfaction of engineer-in-charge.(Fixed Glazing Entrance as per drawing)	sqm	42.27	2978.81		
7	N.S-7	Providing and fixing fully insulated Wooden fire rated doors for 120 minutes rating. Door frame made out 2nd Class Teakwood of size 120 x 70 mm with heat activated intumescent fire strip seal size 10 x 4mm provided in grooves on all three sides of the frame. Door shutter of 50mm + 2mm thickness conforming to IS 3614: 2021 as per prototype tested from NABL lab for stability and integrity and insulation with or without vision panel, comprising of hardwood internal timber frame work, with infill 26 mm thick Fire rated rock wool insulation having density 96kg/m3, the insulation shall be sandwiched between 2nos 9 mm thick non combustible calcium silicate boards, clad with 3mm thick commercial ply on both sides of shutter with heat activated intumescent fire seal strip of size 10 x 4mm mounted in the grooves of expose/concealed lipping all around the shutter except bottom. The shutter shall be fixed with the frame with the help of SS 304 grade ball bearing hinges(to be paid separately) of approved quality with necessary screws and making cut out for vision panel. Provisions/ reinforcement for fixing all fixtures shall be build on the door prior to the supply, final finish of shutter will be with 1mm normal laminate (@ Rs. 1200/- per sheet) on both the sides of the each Leaf of the shutter. (Note: Frame will be primer finish.)					

	i	Single Leaf & Double Leaf & Door Size as per approved drawing	sqm	110.22	6421.19		
8	N.S-8	Providing and fixing SS Ball Bearing Hinges- 4" x 3" x 3mm- Make Geze or equivalent	nos	232.00	233.90		
9	N.S-9	Providing and fixing Door Closer with Std Arm TS1100C, Make - Geze	nos	58.00	1638.98		
10	NS-10	Providing and fixing Vision Panel Fire rated 200x300mm with 6mm thick glass , Make - Schott/ Fire View	nos	58.00	1345.76		
11	NS-11	Providing & laying 500 micron polythene sheet over PCC 1 :4:8 before laying RCC Raft as per drawing.	Sqm	1799.60	72.88		
12	NS-12	Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.	Kilo Litre	4000.00	108.47		
13	NS-13	Providing & Fixing 0.52mm Thick corrugated colour coated G.S. sheet roofing including vertical / curved surface fixed with self threaded S.S. screws including overlapping of sheets complete (up to 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	300.00	967.80		
14	NS-14	Providing & laying 125 micron polythene sheet over PCC 1 :4:8 before laying RCC in Road work as per drawing.	Sqm	600.00	45.76		
15	NS-15	12 mm PVC board for toilet doors/Partitions	Sqm	158.00	693.22		
16	NS-16	Providing and fixing fly-proof stainless steel wire mesh of grade 304 to windows and clerestory windows, using wire mesh having average aperture size of 1.4 mm in both directions and wire diameter of 0.50 mm, complete as per directions of Engineer-in-Charge.	Sqm	241.43	491.53		
17	NS-17	Providing and fixing chicken wire mesh below plaster at the junctions of RCC and brick/block work, complete as per directions of Engineer-in-Charge	Sqm	1050.00	122.88		
18	NS-18	Providing and Filling Construction & Longitudinal joints (6 mm wide x 65 mm deep) in VDC/PQC M-30 by groove cutting machine, providing and filling joints with Polysulphide Pour Grade sealant of approved make in the VDC M-30 complete as per specifications and directions of Engineer-incharge. (Item of dowel bars / tie bars to be paid separately).	Rmt	50.00	334.75		
		SUB TOTAL-XII					

PLUMBING & FIRE FIGHTING WORKS FOR GIRLS HOSTEL							
S. No.	HSR 2021/NS	DESCRIPTION OF ITEM	UNIT	QTY	ESTIMATED RATE WITHOUT GST (INR)	QUOTED RATE WITHOUT GST (INR)	AMOUNT OF ITEMS (INR)
I		Sanitary Fixtures & CP Brass Fittings					
1.01	22.32	Providing and fixing vitreous chinaware dual purpose closet suitable for use as squatting pan or European type water closet (Anglo Indian W.C pan) with seat & lid fixed with C.P. brass hinges and rubber buffers, 10 litre low level flushing cistern with fitting and brackets, 40 mm flush bend, 20 mm over flow pipe, with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required:					
	22.32.1	White vitreous chinaware dual purpose WC pan with white solid plastic seat and lid with white vitreous chinaware flushing cistern and C.P. flush bend.	Each	12	6508.04		
1.02	22.1	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:					
	22.1.2	White vitreous chinaware Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	Each	3	1767.86		
1.03	22.2	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:-					
	22.2.1	White vitreous chinaware Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	Each	17	3186.61		
1.04	22.10	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:					
	22.10.1	Kitchen sink with drain board					
i	22.10.1.1	510x1040 mm bowl depth 250 mm	Each	3	3718.75		
	22.10.2	Kitchen sink without drain board					
ii	22.10.2.1	610x510 mm bowl depth 200 mm	Each	2	2619.64		
1.05	22.14	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete					
	22.14.2	Flexible pipe					
i	22.14.2.1	32 mm dia	Each	4	56.25		
1.06	22.15	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	Each	63	734.82		
1.07	22.22	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:					
	22.22.1	White vitreous chinaware Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	3	3491.96		
1.08	22.24	Providing and fixing white vitreous chinaware pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous chinaware flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :					
	22.24.1	W.C. pan with ISi marked white solid plastic seat and lid	Each	47	4385.71		
1.09	22.42	Providing and fixing toilet paper holder:					

	22.42.1	C.P. brass	Each	47	389.29		
1.10	22.105	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.					
	22.105.1	15 mm nominal bore	Each	162	511.61		
1.11	22.108	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931					
	22.108.1	15mm nominal bore	Each	253	443.75		
1.12	22.118	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	Each	57	166.96		
1.13	22.127	Providing and fixing PTMT soap Dish Holder having length of 138mm,breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	Each	77	101.79		
1.14	22.128	Providing and fixing Unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.					
	22.128.2	15 mm nominal bore with 45 cm length	Each	82	76.79		
1.15	22.212	Providing and fixing in position best Indian make coat and hat hooks fixed into wall with C.P. brass screws and rawl plugs etc. complete including cutting and making good the walls etc.					
	22.212.1	C.P Brass					
	22.212.1.3	Three Way	Per Set	100	134.82		
1.16		Providing and fixing in position best Indian make (to the approval of the engineer-in-charge) storage type automatic electric water heater, pressure/non-pressure type thermostatically controlled, suitable for operation on 230 volts, 50 cycles single phase vertical wall mounting fitted with-draw able and adjustable type AC, thermostat. Thermostat knob to be readily accessible through the opening of suitable cover for and adjustment of temperature in the installed position of heater and the thermostat should be withdrawn without having to drain the water, electric heating element made out of copper tube (heating element should be easily removed and replaced in the installed position of heater) A neon indicator 1 AMP, inner container made out of copper tinned both from inside and outside, outer container made out of mild steel sheet finished in gleaming white stove enamel paint, insulated between the inner and outer with fibre glass wool with 1 metre length of suitable capacity 3 core flexible cord with plug and non return valve plastic/lead connections or pressure release valve (where required). Complete including fixing and testing for a week (as required by Engineer-incharge.					
i	22.216.1	25 Litres capacity	each	21	8085.71		
ii	22.216.3	35 Litres capacity	each	40	10403.57		
1.17	22.209	Providing and fixing 600x450 mm bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	each	61	812.50		
1.18	22.212	Providing and fixing in position best Indian make coat and hat hooks fixed into wall with C.P. brass screws and rawl plugs etc. complete including cutting and making good the walls etc.					
	22.212.1	Aluminium coat and hat hooks					
	22.212.2.3	Three Way	each	115	163.39		
1.19	NS-1	Providing and fixing first quality Popular colour vitreous china under counter rectangular / oval/round lavatory basin, approx size 550x410 mm for under counter mounting, with 15 mm C.P. brass hot and cold single lever mixer, Specially fabricated C.I./M.S. brackets, painted with two or three coats of enamel paint of approved shade over a coat of primer, 32 mm C.P. brass waste and pipe to wall with C.P. brass flange and rubber adopter for waste connection complete including filling gap between counter and wash basin with approved type poly sulphide sealant, cutting and making good the walls wherever required.	Each	2	5175.42		

1.20	NS-2	Providing and fixing first quality Popular colour vitreous china under counter rectangular / oval/round lavatory basin, approx size 550x410 mm for under counter mounting, with 15 mm C.P. brass single lever Piller tap, Specially fabricated C.I./M.S. brackets, painted with two or three coats of enamel paint of approved shade over a coat of primer, 32 mm C.P. brass waste and pipe to wall with C.P. brass flange and rubber adopter for waste connection complete including filling gap between counter and wash basin with approved type poly sulphide sealant, cutting and making good the walls wherever required.	Each	41	4487.29		
1.21	NS-3	Providing & fixing C.P. hand spray with lever control (health faucet) and flexible hose 1 m long connection with C.P. holder for hand spray complete in all respects. (Angle valve to be provide under item no. 18 and measure with that item.)	Each	47	1446.61		
1.22	NS-4	Providing and fixing only 15 mm C.P. brass Wall mounted single lever hot and Mixing fitting for kitchen sink with swinging spout, 450 mm copper pipes and brass nuts complete including cutting & making good the walls where required.	Each	5	3464.41		
1.21	NS-5	Providing & fixing 32mm dia U Shaped Grab Bar material : 18-8 S, Type-304, Stainless Steel, Operation : Movable (Horizontally & Vertically) in toilets for physically handicapped with non-slip gripping surface. complete in all respects, including cutting and making good the wall wherever required.	Each	1	6834.75		
1.23	NS-6	Providing & fixing 32 mm dia L Shaped Grab bars, Material : 18-8 S, Type-304, Stainless Steel in toilets for physically handicapped with non-slip gripping surface. complete in all respects, including cutting and making good the wall wherever required.	Each	1	4590.68		
		SUB TOTAL HEAD-(I)					
II		Soil, Waste, Vent Pipe					
2.01	22.222	Providing and fixing in position singel socket SWR UPVC soil waste or antisiphonage pipes as per IS 13592 of E.D.C manufacture or of any other reputed firm including cutting, jointing, wastage, but excluding cost of jointing.					
i	22.222.2	Single Socket Type B					
ii	22.222.2.2	110mm old SWR UPVC pipe lines laid complete	Meter	753	322.32		
iii	22.222.2.4	75mm old SWR UPVC pipe lines laid complete	Meter	40	241.96		
2.02	NS-7	Installation, jointing and testing uPVC pipe 6 Kg/sqcm class IV (IS 4985-2000) including injection moulded fittings with bosses where required e.g. tees, bends, plugs, clamps, couplings and adapters and jointing with adhesive approved by fittings manufactures including cutting and making good the walls and floors as required at site.					
	i	40 mm O.D.	Meter	29	194.92		
	ii	50 mm O.D.	Meter	56	355.08		
	iii	63 mm O.D.	Meter	132	421.19		
2.03	NS-8	Installation, jointing and testing uPVC 'P'-Trap with hight riser including the cost of PVC Reducing tee,for connection form floor drains etc., as shown on the drawings including making the joint with cement rubber ring or solvent/ weld joints to trap .	Each	102	462.71		
2.04	NS-9	Installation, jointing and testing floor drains with 110mm x 63 mm uPVC elbow set in cement conc. complete in all respects.	Each	44	335.59		
2.05	NS-10	Installation, jointing and testing PVC 100 mm dia floor clean out plug made out of uPVC bend , PVC pipe piece, threaded PVC socket (FTA) with minimum 100 mm cap, suitable insert keys for opening, including making joint to PVC main line as required complete in all respects.	Each	12	868.64		
2.06	NS-11	Providing and fixing stainless steel grating 125 mm dia , 6 mm thick of approved make	Each	290	294.92		

2.07	22.53	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. :				
i	2.53.1	For 100 mm dia pipe	Each	72	144.64	
ii	2.53.2	For 75 mm dia pipe	Each	12	141.07	
		SUB TOTAL HEAD-(II)				
III		Rain Water Pipes				
3.01	9.18	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1 :2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1 :3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	Each	14	147.32	
3.02	NS-12	Providing, laying & jointing in position PVC pipe conforming to IS:4985:1988 and suitable for the respective working pressures with all fittings and accessories e.g. couplings, tees, bends, reducers, clamps, screwed adapters, flanged tail pieces etc. jointing as per manufacturers' instructions.				
	i	PVC pipe 75mm-6 kg/cm2	Meter	891	381.36	
	ii	PVC pipe 110mm-6 kg/cm2	Meter	24.20	616.10	
	iii	PVC pipe 160mm-6 kg/cm2	Meter	177.1	1159.32	
3.03	NS-13	Installation, jointing and testing floor drains with 110mm x 75 mm uPVC elbow set in cement conc. complete in all respects.	Each	144.00	386.44	
		SUB TOTAL HEAD-(III)				
IV		Water Supply System				
4.01	22.86	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.				
i	22.86.1	15 mm nominal outer dia Pipes	Meter	118.8	205.36	
ii	22.86.2	20 mm nominal outer dia Pipes	Meter	712.6	264.29	
iii	22.86.3	25 mm nominal outer dia Pipes	Meter	52.2	333.04	
iv	22.86.4	32 mm nominal outer dia Pipes	Meter	5	428.57	
4.02	22.85	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				
i	22.85.1	15 mm nominal outer dia Pipes	Meter	5	130.36	
ii	22.85.2	20 mm nominal outer dia Pipes	Meter	534	181.25	
iii	22.85.3	25 mm nominal outer dia Pipes	Meter	335	233.04	
iv	22.85.4	32 mm nominal outer dia Pipes	Meter	92	310.71	
v	22.85.5	40 mm nominal outer dia Pipes	Meter	42	429.46	
vi	22.85.6	50 mm nominal outer dia Pipes	Meter	180	648.21	
4.03	NS-14	65 mm nominal outer dia Pipes	Meter	68	769.49	
4.04	NS-15	80 mm nominal outer dia Pipes	Meter	37	989.02	
4.05	NS-16	100 mm nominal outer dia Pipes	Meter	15	1380.54	

4.06	22.87	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work					
	22.87.6	50 mm nominal outer dia Pipes	Meter	183	591.96		
4.07	NS-17	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work- Exposed on wall (Based HSR 22.88)					
		65 mm dia nominal bore	Meter	81.7	436.44		
4.08	22.91	Providing and fixing G.I. pipes complete with G.I. fittings including trenching up to 0.30m to 1.00m depth and refilling etc. External work					
	22.91.6	65 mm dia nominal bore	Meter	183	406.25		
4.09	NS-18	Providing, fixing, testing and commissioning Brass Ball valve with SS 304 ball, SS stem, renewable PTFE seat, teflon gland packing, stanmdard bore, lever operated, screwed female threads, body and seat test pressure 500 Psig. Complete in all respects.					
	i	15 mm nominal bore	Each	7	471.19		
	ii	20 mm nominal bore	Each	37	638.14		
	iii	25 mm nominal bore	Each	27	994.07		
	iv	32 mm nominal bore	Each	7	1641.53		
	v	40 mm nominal bore	Each	8	2377.12		
4.10	NS-19	Providing and fixing thermal insulation tubing PIMF (XPE laminated with metalised polyster foil on one side for hot water pipes (chases / burried locations/ exposed in false ceiling area), a elastomeric flexible material having hermetic blister closed cell structure of expanded synthetic rubber over pipes of following nominal bores and thickness with all required accessories as required. (For nominal dia of pipes as below)					
		6 mm thick for hot water pipes in wall chases					
	i	15mm dia nominal bore	Meter	287.2	89.83		
	ii	20mm dia nominal bore	Meter	8.4	98.31		
	iii	25mm dia nominal bore	Meter	7	109.32		
4.11	NS-20	Providing, fixing, testing and commissioning Brass Float valve with copper float, SS stem, renewable PTFE seat, teflon gland packing, stanmdard bore, lever operated, screwed female threads, body and seat test pressure 500 Psig. Complete in all respects.					
		50 mm nominal bore	Each	4	8665.25		
4.12	25.3	Supplying, fixing, testing and commissioning of Butterfly valves PN 16 rated without insulation for water circulation as per specifications.					
	i	25.3.6 100mm dia	Each	1	2663.39		
	ii	25.3.7 80mm dia	Each	1	2029.46		
	iii	25.3.8 65mm dia	Each	6	1821.43		
	iv	25.3.9 50mm dia	Each	8	1584.82		
4.13	25.6	Supplying, fixing, testing and commissioning o STRAINER flanged end & PN 16 pressure rating as specified.					
	i	25.6.4 100mm dia.	Each	1	4175.00		
	ii	25.6.5 80mm dia.	Each	1	3433.04		
4.14	22.181	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS: 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Liter	20000	7.14		
		SUB TOTAL HEAD-(IV)					

V		Sewerage and Drainage				
5.01	4.16	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, 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:				
	4.16.1	All kinds of soil				
i	4.16.1.2	Pipes, cables etc. exceeding 80 mm metre dia. but not exceeding 300 mm dia	Meter	528	64.29	
ii	4.16.1.3	Pipes, cables etc. exceeding 300 mm metre dia but not exceeding 600 mm	Meter	205	131.25	
5.02	NS-21	Providing, laying and jointing HDPE Double Wall Coil (DWC) SN-4 Grade pipes conforming to IS: 16098 including all fittings wherever required e.g., tees, bends of any degree, couplings, adapters, plugs, unions etc. including the cost of centering and shuttering and jointing as manufacturer recommendation etc. including testing of joints etc.				
	i	150 mm diameter	Meter	61	363.56	
	ii	200 mm diameter	Meter	304	424.58	
5.03	22.164	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :				
	22.164.2	150 mm diameter S.W. pipe	Meter	61	396.43	
	22.164.300	200 mm diameter S.W. pipe	Meter	304	462.50	
5.04	NS-22	Providing and fixing square-mouth PVC gully trap suitable for hdpe dwc pipe complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:				
	i	160 x 110 mm size P type				
		With sewer bricks conforming to IS : 4885	Each	37	3961.00	
5.05	NS-23	Providing and laying Non Pressure NP-3 class (Medium duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1 :2 (1 cement : 2 fine sand) including testing of joints etc.				
	i	200 mm dia RCC pipes	Meter	172	745.76	
	ii	300 mm dia RCC pipes	Meter	215	1079.66	
5.06	22.206	Constructing brick masonry road gully chamber 45x45x77.5 cm with bricks in cement mortar 1 :4 (1 cement : 4 coarse sand) with precast R.C.C. vertical grating complete as per standard design				
	22.206.1	With common burnt clay non-modular bricks of class designation 7.5	Each	69	3281.25	
5.07	22.190	Constructing brick masonry manhole in cement mortar 1 :4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1 :1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1 :4:8 mix (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1 :3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1 :2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
	22.190.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				
	22.190.1.2	With Sewer bricks conforming to IS : 4885	Each	54	6597.32	
5.08	22.191	Extra for depth for manholes :				
	22.191.1	Size 90x80 cm				

5.09	22.191.1.2	With Sewer bricks conforming to IS : 4885	Meter	29.4	4125.00		
5.10	22.198	Providing M.S. foot rests including fixing in manholes with 20x20x1 O cm cement concrete blocks 1 :3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :					
	22.198.2	With 20 mm diameter round bar	Each	133	207.14		
		SUB TOTAL HEAD-(V)					
VI		FIRE FIGHTING SYSTEM					
6.0							
6.01	NS-24	Supplying and installing following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.					
	i	150 mm width x 50mm depth x 1.6 mm thickness.	Metre	15.00	511.86		
6.02	NS-25	Providing and fixing in position the industrial type pressure gauges with gun metal / brass valves complete as required	Each	1.00	1013.56		
6.03	NS-26	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :					
	i	25 mm dia	Metre	26.00	630.51		
	ii	32 mm dia	Metre	3.00	721.19		
	iii	40 mm dia	Metre	3.00	876.27		
	iv	50 mm dia	Metre	3.00	1086.44		
	v	65 mm dia	Metre	122.00	1367.80		
	vi	80 mm dia	Metre	11.00	1597.46		
6.04	NS-27	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :					
		65 mm dia	Set	4.00	3645.76		
6.05	NS-28	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS:5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required :					
		65mm dia	Set	1.00	5438.98		
6.06	NS-29	Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required.					
		20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585					
		20 mm nominal internal dia gun metal globe valve & nozzle.					
		Drum and brackets for fixing the equipments on wall.					
		Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket.					
	18.17.2	40 m	Set	1.00	10231.36		
6.07	NS-30	Supplying and fixing of fire brigade connection of cast iron body with gun metal male instantaneous inlet couplings complete with cap and chain as reqd. for suitable dia MS pipe connection conforming to IS 904 as required :					
		2 way - 100 mm dia M.S. Pipe	Set	1.00	5713.56		
6.08	NS-31	Supplying and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia gun metal wheel valve with required accessories, pressure gauge and painting with synthetic enamel paint of approved shade as required.	Set	2.00	15461.02		

6.09	NS-32	Supplying, installation, testing and commissioning of electric driven terrace pump suitable for automatic operation and consisting of following, complete in all respects, as required: (Terrace Pump)				
		a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical confirming to IS : 1520				
		b) Suitable HP squirrel cage induction motor TEFC type suitable for operation on 415 volts, 3 phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.				
		c) M.S.fabricated common base plate, coupling, coupling guard, foundation bolts etc.as required.				
		d) Suitable cement concrete foundation duly plastered and with anti vibration pads.				
		450 lpm at 35 m Head	Each	1.00	73053.39	
6.10	NS-33	Providing and fixing forged brass ball valve with forged brass ball suitable for operating pressure of not less than 16 kg / sq.cm of the following size.				
		25 mm dia	Each	1.00	1628.81	
6.11	NS-34	Providing and fixing ABC Powder type fire extinguishers consisting of welded M.S. cylindrical body, squeeze lever discharge valve fitted with pressure indicating guage internal discharge tube 30 cms long high pressure discharge hose, discharge nozzle, suspension bracket conforming to IS:15683 finished externally with red enamel paint and fixed to wall with brackets complete with internal charge.(Note: All extinguishers should be Halone free)				
		Capacity 6.0 Kg.	Each	20.00	4162.71	
6.12	NS-35	Providing and Fixing OF ISI (IS:15683) marked Water type stored pressure (stored pressure) type capacity 9 ltrs. with gun-metal cap and nozzle and complete in all respects including initial fill and wall suspension bracket. Capacity 9 ltrs.	Each	20.00	3138.98	
6.13	NS-36	Providing and Fixing OF ISI marked (IS:15683) Portable fire Extinguisher, Carbon-dioxide type flat base including valve, discharge hose of not less than 10 mm dia. 1m long & complete in all respects including initial fill with CO2 gas confirming to IS:307-1966 filled to a filling ratio of not more than 0.667of not more than 0.667and wall suspension bracket.				
		Capacity 4.5 kg.	Each	1.00	10130.51	
6.14	NS-37	Providing, supplying, installing, testing and commissioning of pump control panel suitable for automatic operation of electric driven terrace pump, complete in all respects, including DOL / Star-Delta starter (as required), MCCB/MCB incomer, power and control contactors, thermal overload relay, phase failure / phase sequence protection, short-circuit protection, indication lamps (R-Y-B / ON / TRIP), auto/manual selector switch, start/stop push buttons, control wiring, terminal blocks, earthing, panel enclosure fabricated from CRCA sheet steel with powder coating, suitable for 415V, 3-phase, 50Hz AC supply, IP-55 protection, mounted complete with all internal wiring, accessories, name plates, interconnections, and connections to motor, as required and as per relevant IS standards, complete.				
			Set	1.00	192753.39	
		SUB TOTAL HEAD-(VI)				

ELECTRICAL WORKS FOR GIRLS HOSTEL							
S. No.	HSR 2021/NS	DESCRIPTION OF ITEM	UNIT	QTY	ESTIMATED RATE WITHOUT GST (INR)	QUOTED RATE WITHOUT GST (INR)	AMOUNT OF ITEMS (INR)
I		DISTRIBUTION BOARDS (HSR Items)					
1.01	23.22.4	Supply and erection of double door sheet steel enclosure distribution board suitable for MCBS and ELCBS etc. recessed in wall including bonding to earth with all labour and material required to complete the job in all respect up to the entire satisfaction of the Engineer-in-Charge of the work.					
i	23.22.4.3	SPN DB Double Door 12 way (2 incoming and 10 outgoing)	Each	5	1705.36		
ii	23.22.4.4	SPN DB Double Door 16 way (2 incoming and 14 outgoing)	Each	2	2079.46		
i	23.22.4.7	TPN DB Horizontal type Double Door 8 way (8 incoming 3phase*8 outgoing)	Each	11	3957.14		
iv	23.22.4.8	TPN DB Horizontal type Double Door 12 way (8 incoming 3phase*12 outgoing)	Each	8	5754.46		
1.02	23.22.5	Supply and erection of miniature circuit Breaker 240/415 V in the existing distribution board including making necessary connections:-					
i	23.22.5.1	6 amp. to 32 amp Single Pole	Each	472	144.64		
ii	23.22.5.3	6 amp. to 32 amp Double POLE	Each	7	425.89		
iii	23.22.5.8	40 amp to 63 amp. MCB's FOUR POLE	Each	19	1291.07		
1.03	23.22.6	Supply and erection double pole/Four pole Residual (RCCB/ELCB) on 240/415V, 5Hz. AC supply installed in existing sheet steel enclosures including making necessary connections and bonding to earth with all labour and material required to complete the job in all respect					
i	23.22.6.1	DP RCCB 30ma sensitivity , 25 A	Each	7	1477.68		
ii	23.22.6.2	DP RCCB 30ma sensitivity , 40 A	Each	27	1669.64		
iii	23.22.6.3	DP RCCB 30ma sensitivity , 63 A	Each	30	2075.00		
1.04	23.22.7	Supply and erection of blanking sheet in existing distribution board.	Each	32	8.04		
	SUB TOTAL-I						
II		CIRCUIT CUM POINT WIRING (HSR ITEMS)					
2.01	23.4.1	Wiring for Light/Fan/call bell point with modular type switch/socket and GI box, Modular type face plate etc in 1.5 sqmm FRLS PVC insulated copper conductor cable in 1.6 mm thick PVC conduit pipe.					
	23.4.1.1	Group A	Point	961	519.64		
2.02	23.4.3	Wiring for Light/Fan/call bell point in 1.5 sqmm FRLS PVC insulated copper conductor cable in 1.6 mm thick PVC conduit pipe, without separate control switch					
	23.4.3.1	Group A	Point	320	225.00		
2.03	23.4.4	Wiring in PVC conduit system for 3-pin 5amp. Plug point by using 2 no 1.5 sqmm FRLS copper wire and 1 no 1.5 Sqmm FRLS copper wire , including providing 1 no 5/6 Amp 3/5 pin Modular type socket and 1 no 5/6 Amp Modular type switch required GI Box ,modular face plate etc complete as required					
	23.4.4.1	Group A	Each	572	725.00		

2.04	23.4.5	Wiring in PVC conduit system for 3-pin 15amp. Plug point by using 2 no 4 sqmm FRLS copper wire and 1 no 4 Sqmm FRLS copper wire for earthing , including providing 1 no 15/16 Amp 3/6 pin Modular socket and 1 no 15/16 Amp Modular switch required GI Box , modular face plate etc complete as required				
	23.4.5.3	Group A	Each	92	999.11	
2.05	23.3.6	Wiring main and sub mains in two single core for phase and neutral wire and one single core for earth wire PVC insulated Copper conductor cable 1100 Volts grade in PVC Conduit etc as required.				
i.	23.3.6.9	3 run of Size 1.50 Sqmm(1/1.40mm)	Mtr.	1600	189.29	
ii.	23.3.6.10	3 run of Size 2.50 Sqmm(1.1.80mm)	Mtr.	3650	271.43	
iii	23.3.6.8	2 run of Size 4 Sqmm(1/2.24mm)	Mtr.	3650	258.93	
iii	23.3.6.3	1 run of Size 4 Sqmm(1/2.24mm)	Mtr.	3650	143.75	
iv	23.3.6.4	1 run of Size 6 Sqmm(1/2.80mm)	Mtr.	2610	172.32	
v	23.3.6.5	1 run of Size 10 Sqmm(1/3.50 mm)	Mtr.	1600	345.54	
2.06	23.7.6	Supply and erection of PVC CONDUIT ISI marked (Medium) recessed in wal/ceiling etc. including the cost of PVC bends, inspection boxes, iron hooks and cement concrete etc. complete in all respect up to the entire satisfaction of Engineer-in-Charge of work.				
i	23.7.6.1	PVC pipe of 20 mm dia.	Mtr.	1100	25.89	
ii	23.7.6.2	PVC pipe of 25 mm dia.	Mtr.	4650	32.14	
iii	23.7.6.3	PVC pipe of 32 mm dia.	Mtr.	220	44.64	
iv	23.7.6.4	PVC pipe of 40 mm dia.	Mtr.	100	57.14	
2.07	23.8.11	Providing and fixing modular type accessories of approved make in existing box including fixing and making necessary connections, complete in all respect.				
i	23.8.11.6	Bell Push	Each	3	76.79	
ii	23.8.11.7	step type Fan Regulator 2 modules 300 watt	Each	186	257.14	
2.08	23.8.4	Supply and erection of 10.5 cm dia M.S.Fan box including 8 mm dia 30 cm long M.S. Road made into suitable suspension hook and erected in R.C.C. slab for the erection of fan complete with all labour and material required to complete the job.	Each	185	94.64	
SUB TOTAL-II						
III						
FIXING OF LIGHT FIXTURE & FAN (HSR Items)						
3.01	23.20	Fixing of LED Tube light/ 2*2 ft square panel fitting directly on wall /ceiling or false ceiling including making connections etc as required	Each	571	66.96	
3.02	23.21	Fixing of LED Down lighter 7 to 28 Watt on ceiling or in false ceiling including cutting/making hole in ceiling including making connections etc as required	Each	283	48.21	
3.03	23.9	Erection of exhaust fan in existing opening ,complete with necessary earthing of fan including carriage from PWD store to the site of work.	Each	50	108.93	

3.04	23.11	Making suitable hole in the wall suitable for exhaust fan up to 450 mm sweep including finishing the same and fixing of Stainless steel wire mesh 2 mm thick having about 50 meshes per inch at exhaust side complete as required	Each	50	381.25		
		SUB TOTAL-III					
IV		DATA AND TELEPHONE NETWORK					
4.01	23.23.10	Supplying and drawing of 1 no UTP 4 pair CAT Sa LAN Cable in the existing surface/recess MS/PVC conduit as required	Metre	5500	43.75		
4.02	23.8.10	Providing and fixing GI concealed sheet metal boxes with inner and outer face plate including concealing the box in wall and fixing in position with inner plate and face plate with all labour and material required for the job complete in all respects.					
	23.8.10.1	1 & 2 Modules including combined plate for Telephone and data	Each	226	92.86		
4.03	23.8.11	Providing and fixing modular type accessories of approved make in existing box including fixing and making necessary connections, complete in all respect.					
i	23.8.11.8	Telephone Socket outlet modular type	Each	8	75.00		
ii	23.8.11.9	TV Socket outlet modular type	Each	3	75.00		
iii	23.8.11.11	RJ 45 Computer DATA socket outlet for CAT 6 or CAT6e cable Modular type	Each	215	303.57		
4.04	23.23.8	Supply and laying of multicore telephone cable conductor size 0.51 mm bright annealed copper conductor PVC insulated and sealed in existing pipe/channel and making necessary connection complete in all respect up to the entire satisfaction of the Engineer-in charge of the work.					
	23.23.8.1	2 pair telephone wire	Metre	170	7.14		
		SUB TOTAL-IV					
V		HT & LT CABLE (HSR Items)					
5.01	24.3.1	Laying and erection of XLPE (E)II kv HT aluminium conductor armoured cable 1 metre below ground level with sand & bricks with all labour and material including digging and refilling of trench as required					
	24.3.1.2	above 120 and up to 300 sqmm 3 core XLPE Cable	metre	750	183.04		
5.02	24.3.3	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					
	24.3.3.3	300 to 400 sqmm	Each	3	10278.57		
5.03	24.3.5	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:					
	24.3.5.4	300 to 400 sqmm	Each	1	38367.86		

5.04	24.2.6	Supply and erection of copper lugs including crimping etc. entire satisfaction of Engineer-in- Charge of the work.				
	24.2.6.5	10 sqmm	Each	48	8.93	
5.05	24.2.7	Supply and erection of suitable compression type brass cable glands for underground Cable :-				
i	24.2.7.2	10 sqmm to 16s qmm Cable 2 to 4 Core	Each	48	44.64	
ii	24.2.7.3	25 sqmm to 50 sqmm Cable 2 to 4 Core	Each	12	76.79	
iii	24.2.7.4	70 sqmm to 95 sqmm Cable 3 to 3½ Core	Each	2	103.57	
iv	24.2.7.5	120 sqmm to 185 sqmm Cable 3 to 32 Core	Each	4	133.04	
v	24.2.7.7	300 sqmm to 400 sqmm Cable 3 to 3½ Core	Each	4	226.79	
5.06	24.2.8	Supply and erection of aluminium lugs heavy duty including crimping etc. up to the entire satisfaction of the Engineer-in-charge of the work .				
i	24.2.8.3	10 sqmm	Each	36	6.25	
ii	24.2.8.5	25sqmm	Each	48	9.82	
iii	24.2.8.7	50sqmm	Each	2	15.18	
iv	24.2.8.9	95sqmm	Each	10	23.21	
v	24.2.8.11	150 sqmm	Each	4	40.18	
vi	24.2.8.12	185 sqmm	Each	12	49.11	
vii	24.2.8.14	300sqmm	Each	12	91.07	
5.07	24.2.2	Laying of underground cable 0. 75 metre below ground level covered with sand and bricks including excavation and refilling of trenches.:-				
i	24.2.2.1	2.5 Sq mm to 10 Sq mm 2 to 4 Cor	Metre	350	156.25	
ii	24.2.2.2	16 Sq mm to 35 sqmm 2 to 4 Core	Metre	250	160.71	
iii	24.2.2.3	50 Sq mm to 150 sqmm 2 to 4 Core	Metre		171.43	
iv	24.2.2.4	185 sqmm to 240 sqmm 3 to 3½ Core	Metre	60	177.68	
v	24.2.2.5	300 sqmm to 400 sqmm 3 to 3½ Core	Metre	200	185.71	
5.08	24.2.3	Laying of underground cable 0.75 metre below ground level covered without sand and bricks including excavation and refilling of trenches.:-				
	24.2.3.2	16 Sq mm to 35 sqmm 2 to 4 Core	Metre	250	48.21	
5.09	24.2.4	Laying of underground cable in pipe /existing open/closed trench etc as				
i	24.2.4.1	2.5 Sq mm to 10 Sq mm 2 to 4 Core	Metre	170	8.93	
ii	24.2.4.2	16 Sq mm to 35 sqmm 2 to 4 Core	Metre	50	12.50	
5.10	24.2.5	Laying and fixing of cable on surface/ cable tray etc as required:-.				
i	24.2.5.1	2.5 Sq mm to 10 Sq mm 2 to 4 Core	Metre	80	11.61	
ii	24.2.5.2	16 Sq mm to 35 sqmm 2 to 4 Core	Metre	100	20.54	
iii	24.2.5.3	50 Sq mm to 150 sqmm 2 to 4 Core	Metre	35	31.25	

5.11	24.4.8	Supply and erection of Hot Dip Galvanized octagonal pole of 3mm thickness, with base plate including cost of nut and bolts , earthing studs, Integral Cable termination arrangement 5 mm thick Bakelite base plate on suitable welded MS/GI bracket 32 A four way connector 2 no 1 O A SP MCB , end cover and all accessories as supplied by the manufacture including Providing RCC foundation of M25 grade (1 Cement:1 Stone aggregate: 2 Coarse sand) i/c excavation, steel reinforcement (Fe 500) @80 kg/cum of concrete contents, concrete cover 50mm, anchor bolts etc. over a bed of PCC 1 :5: 1 O of required dimensions for octagonal poles of various heights as per following specifications complete in all respects and as per directions of Engineer-in-charge					
	24.4.8.4	6 Metre Long pole with top dia 75 mm and bottom dia 150 mm each 15305 with base plate of size 275 x 275 x 16 mm	each	18	13665.18		
5.12	24.4.2	Supply and erection of GI bracket made of 32 mm dia medium class GI pipe, having 15 deg angle from horizontal, suitable for fixing on top of Street Light pole					
	24.4.2.2	90 cm long, with 20 cm high suitable size pole cap	each	18	485.71		
	24.4.5	Supply and erection of Single Phase weather proof M.S. box of size 20 cm x each 640 15 cm x 10 cm with hinged cover made of 2 mm thick MS sheet, locking arrangements, housed in wall/fixed on pole , including the cost of 1 no 4 way 16 A Bakelite connector, 1 no. 6 amp SP MCB and 1 Nos. 16 amp. neutral links fixed on Bakelite sheet in the M.S. box including painting and necessary connections	each	18	571.43		
	24.4.7	Supplying and embedding following dia G.I. pipe (medium class) in pole collar/ foundation (during casting) for cable entry including bending the pipe to the required shape complete as required.					
	24.4.7.1	32 mm dia	each	36	280.36		
5.11	24.5.2	S/E mark double walled corrugated (DWC) HDPE, pipe 10 Kg/Cm2 ,laid 0.75 Metre below ground level including digging and refilling of earth including cost of suitable size socket/coupler for HDPE pipe including the cost of labour and material required to complete the job in all respect up to the entire satisfaction of Engineer in charge of the work.					
i	24.5.2.3	DWC/HDPE pipe 63/50 mm outer dialinner dia	Mtr	360	124.11		
ii	24.5.2.7	DWC/HDPE pipe 180/150 mm outer dialinner dia	Mtr	19	342.86		
5.12	24.16	PROVIDING & ERECTION/ LAYING OF PVC/ XLPE (E) 11KV HT Alumunium condouctor Armoured cable ISI Mark laid in existing pipe/ tenches/surface with all labour and material required to complete the job in all respect upto the entire satisfaction of the Engineer-in-charge of the works.					
	24.16.9	300 Sq mm 3 core	Metre	800	2149.11		
5.13	24.13	PROVIDING & ERECTION/ LAYING OF PVC/ XLPE insulated underground alumunium conductor underground cable loose in existing pipe or tenches complete in all respect with necessary connections upto the entire satisfaction of the Engineer-in-charge of the works.					
i	24.13.94	300 Sq mm 3.5 Core (Arm.)	Metre	700	1574.11		
ii	24.13.82	185 Sq mm 3.5 Core (Arm.)	Metre	70	1010.71		
iii	24.13.62	95 Sq mm 3.5 Core (Arm.)	Metre	35	560.71		
5.14	24.14	PROVIDING & ERECTION/ LAYING OF PVC/ XLPE insulated underground alumunium conductor underground cable onsurface/existing cable tray complete in all respect with necessary connection upto the entire satisfaction of the Engineer-in-charge of the work.					
i	24.14.62	95 Sq mm 3.5 Core (Arm.)	Metre	35	571.43		

ii	24.14.32	25 Sq mm 4 Core (Arm.)	Metre	700	225.89		
iii	24.14.14	10 Sq mm 2 Core (Arm.)	Metre	350	125.00		
iv	24.14.18	10 Sq mm 4 Core (Arm.)	Metre	180	150.89		
		SUB TOTAL -V					
VI		EARTHING AND MISCELLANEOUS ITEMS. (HSR Items)					
6.01	24.1.1	Earthing with GL earth pipe 4.5 m long and 40 mm dia with masonry enclosures on the top etc. (but without charcoal or coke and salt) as required.	Each	8	2720.54		
6.02	24.1.2	Extra for using salt and char coal/coke for pipe earth electrode as required.	Each	6	651.79		
6.03	24.1.3	Earthing with G.I. earth plate 600 mmx 600 mm x 6 mm thick including accessories and providing masonry enclosures with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required.	Each	16	3367.86		
6.04	24.1.4	Earthing with tinned copper earth plate 600mmx600mmx3mm thick including accessories and providing masonry enclosures with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) etc. complete as required.	Each	6	8274.11		
6.05	24.1.5	Extra for charcoal or coke and salt for G. I. plate or copper plate earth electrode.	Each	22	800.89		
6.06	24.1.10	Providing and fixing 25 mm x 5mm copper strip on surface or in recess for connections etc. as required with all labour and material.	Metre	50	730.36		
6.07	24.1.13	Providing and fixing 4.00 mm dia G1. Wire on surface or in recess for loop earthing as required.	Metre	570	21.43		
6.08	23.23.6	Supply and erection of MS cable tray , duly pained as required including erection of the same on wall or ceiling with necessary fixture and other material required to complete the job in all respect up to the entire satisfaction of Engineer-in Charge of the work.					
i	23.23.6.2	MS perforated cable tray painted with powder coating 200 X 50 X2mm	Metre	60	350.89		
ii	23.23.6.3	MS perforated cable tray painted with powder coating 375 X 50 X2mm	Metre	50	397.32		
		SUB TOTAL VI					
VII		LIGHTNING PROTECTION SYSTEM					
7.01	24.1.16	Supply and erection of 25mm dia 1.5 metre long lightning G.I. tube rod tapered into a point at the top with 16cm x 16cm x 3mm thick G.I. base plate and necessary nuts and bolts with washers.	Each	4	898.21		
		SUB TOTAL VII					
VIII		Earthing Strip					
8.01	24.1.14	Supply and erection of 20mm x 3 mm thick GI, tape fixed with suitable G.I. staples of same size.	Mtr	700	61.61		

8.02	24.1.17	Providing and fixing testing joints made of 20mm x 3mm thick G.I. strips 125 mm long with 4 nos. G.I. bolts and nuts with washers complete.	Each	12	73.21		
		SUB TOTAL VIII					
IX		DISTRIBUTION BOARDS					
9.1	NS-1	MCCB Enclosure					
i		Supplying and fixing of 63A 415V, 4P MCCBs of 50kA with thermal based release having O/L, S/C protection in sheet enclosure including drilling holes on the wall/ board complete with connection, earthing the body etc. as required.	Set	1	13672.03		
ii		Supply, fixing and commissioning of the 32A 3Pin 2P+E IP65 weather proof socket and Plug complete as required.	Set	2	6266.10		
9.2	NS-2	Supply and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 25 A modular socket outlet and 25A modular SP MCB, "C" curve including connections, painting etc. as required.	Each	26	616.10		
9.3	NS-3	Supplying and fixing brass batten/ angle holder including connection etc. as required.	Each	8	111.02		
9.4	NS-4	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	7	1373.73		
9.5	NS-5	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 amps, 240 volts, "C" curve, DP, MCB complete with connections, testing and commissioning etc. as required.	Each	6	990.68		
9.6	NS-6	Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32 amps, 415 volts, "C" curve, TP, MCB complete with connections, testing and commissioning etc. as required.	Each	5	1349.15		
		SUB TOTAL-(IX)					
X		LIGHT FIXTURE					
10.1	NS-7	Supply of 18W Surface Mounted Round Led Downlighter delivering minimum system lumen of 1800 lm & the luminaire shall be with system efficacy ≥ 100 lm / W. Housing Pressure Die Cast Aluminium heat sink, IP40 , Optics: High Transmittivity Plastic Diffuser. The operating CCT shall be 5700K with CRI of ≥ 80 . The luminaire shall be BIS Registered with electronic driver with input voltage range of 100 to 265V , THD $\leq 10\%$ & PF ≥ 0.95 , 50,000 Hrs LED Life with L70 Criteria. Cut out dia is 145mm and height 39mm with +/- 2mm tolerance. The LED Driver shall be easily available in India for repair and service. The LED shall be SMD type. The luminaire shall be with following certifications: LM79 & LM80 issued by LED manufacturer along with Photo Biological Safety Standard. (Eq. to Havells Cat. Ref. INTEGRANXTRDDLRSURD18WLED857S)	Each	571	1161.02		

10.2	NS-8	Supply of 4ft Linear Batten LED surface mounted luminaire delivering an initial system lumen of 4400 lumens & the luminaire shall be with system efficacy ≥ 110 lm / W. The luminaire Housing shall be made of extruded Aluminium & the diffuser shall be of polycarbonate. The operating CCT shall be 6500K with CRI of ≥ 80 . The luminaire shall be BIS Registered with electronic driver with input voltage range of 160 to 270V , THD $\leq 10\%$ & PF ≥ 0.95 , 50,000 Hrs LED Life with L70 Criteria, IP20. The LED Driver shall be easily available in India for repair and service. Luminaire shall have minimum surge protection of 3KV.The luminaire shall be with following certifications: LM79 & LM80 issued by LED manufacture along with Photo Biological Safety Standard. (Eq. to Havells Cat Ref STOUTPLUS1200BS40WLED840SPCWH))	Each	52	2322.03		
10.3	NS-9	Supply of 4ft Linear LED luminaire delivering an initial system lumen of 2000 lumens & the luminaire shall be with system efficacy ≥ 100 lm / W. The luminaire Housing shall be made of extruded Polycarbonate & the diffuser shall be of polycarbonate. The operating CCT shall be 6500K with CRI of ≥ 80 . The luminaire shall be BIS Registered with electronic driver with input voltage range of 150 to 270V , THD $\leq 20\%$ & PF ≥ 0.9 , 50,000 Hrs LED Life with L70 Criteria, IP20. The LED Driver shall be easily available in India for repair and service. Luminaire shall have minimum surge protection of 2.5 KV.The luminaire shall be with following certifications: LM79 & LM80 issued by LED manufacture along with Photo Biological Safety Standard. (Eq. to Havells Cat Ref LUMILINEPLUSPROBS40WLED865SPCSS)	Each	173	1076.27		
10.4	NS-10	Supply of 2ft Linear LED luminaire delivering an initial system lumen of 1000 lumens & the luminaire shall be with system efficacy ≥ 100 lm / W. The luminaire Housing shall be made of extruded Polycarbonate & the diffuser shall be of polycarbonate. The operating CCT shall be 6500K with CRI of ≥ 80 . The luminaire shall be BIS Registered with electronic driver with input voltage range of 150 to 270V , THD $\leq 20\%$ & PF ≥ 0.9 , 50,000 Hrs LED Life with L70 Criteria, IP20. The LED Driver shall be easily available in India for repair and service. Luminaire shall have minimum surge protection of 2.5 KV.The luminaire shall be with following certifications: LM79 & LM80 issued by LED manufacture along with Photo Biological Safety Standard. (Eq. to Havells Cat Ref LUMILINEPLUSNEOBS10WLED865SPCSSINDS)	Each	46	338.98		
10.5	NS-11	Supply of 10W Wall mounted LED Bulkhead Light delivering minimum system lumen of 1000 lm & the luminaire shall be with system efficacy ≥ 100 lm / W. Housing & Rim is Pressure Die Cast Aluminium, powder coated white , IP65, IK08, Optics: Polycarbonate Opal Diffuser. The operating CCT shall be 5700K with CRI of ≥ 80 . The luminaire shall be BIS Registered with electronic driver with input voltage range of 140 to 280V , THD $\leq 10\%$ & PF ≥ 0.95 , 50,000 Hrs LED Life with L70 Criteria. Shall have minimum surge protection of 2.5KV. The LED Driver shall be easily available in India for repair and service. The LED shall be SMD type.The luminaire shall be with following certifications: LM79 & LM80 issued by LED manufacturer along with Photo Biological Safety Standard. (Eq. to Havells Cat. Ref. RUGBYGENXETS10WLED865SSYMBOPC)	Each	12	889.83		
10.6	NS-12	Exhaust fan of 230mm sweep, 1400RPM, with 450 CFM free air delivery, AC 230V/415V , 50 Hz, single phase / three phase complete with all necessary accessories for completing installation as per specification.	Each	34	1440.68		
10.7	NS-13	Exhaust fan of 450mm sweep, 1400RPM, with 450 CFM free air delivery, AC 230V/415V , 50 Hz, single phase / three phase complete with all necessary accessories for completing installation as per specification.	Each	16	4186.44		

10.8	NS-14	Supply of following sizes of ceiling fan complete as required.					
		Supply of 900 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor.	Each	4	3050.85		
10.9	NS-15	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS : 374- 2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	Each	181	2525.42		
10.1	NS-15.1	Supply,Commissioning,installation of LED Street light is made of pressure die cast aluminium housing with appropriate heat sink fins with corrosion resistant powder coat with Polycarbonate duffuser. The fixture both optical and electrical compartment has Ingress Protection of IP 66 Rated. It consists of integral driver to operate wide voltage range from 150V to 270V 50/60Hz application.The luminaire wattage is of 45W and with efficacy shall be greater than equal to 115 lumen per watt. The colour temp of LED is 5700K and CRI 70. The luminaire shall have a driver with THD < 10% and PF > 0.95 with Surge Protection as per IEC 61000-4-5 level-4 of 6KV. LEDs are mounted on MCPCB and LENS on LEDs are fixed and not glued. LEDs are LM80 Compliant with TM21 report for L70 life of 50000 hrs at 85 Deg C,tested and certified from NABL accredited LAB.	Each	18	3432.20		
		SUB TOTAL (X)					
XI		DATA AND TELEPHONE NETWORK					
		SECTION - I- STRUCTURED CABLING SYSTEM PASSIVE					
11.1	NS-16	Supplying & Fixing of UTP Jack Panel, loaded with 24 nos UTP ports for Non-PCB based IO Jacks (RJ45, TIA-568C Category-6, Shall have integrated bonding bar or other mechanism for grounding, Shall be loaded with individually replaceable 24 nos. Category-6 Jacks complying with TIA-568.C.2 , Shall be Zig Zag type , the jacks shall have RJ-45 type connector .Jacks to be Certified by independent labs like ETL/GHMT/3P for compliance to EIA/TIA-568C.2 complete in all respect.	Each	8	7465.25		
11.2	NS-17	Supplying & Fixing of Category 6, UTP patch cords shall be constructed of Conductor diameter copper strand: AWG 26/7 unshielded twisted pair stranded copper cable with an enhanced performance modular plug at each end.Patch Cord should be IDC type only with 0.7 µm selective gold plating. UTP Patch Cable will be 1.0 mtr. complete in all respect. Jacket - LSZH .	Each	215	304.24		
11.3	NS-18	Supplying & Fixing of Fiber Optic LC style fully loaded Patch Panel (FOPP), 19" Rack Mount ,Shall have all accessories including coupler plates pre loaded with 12 Nos of LC couplers (OM3) with all accessories complete in all respect.	Each	1	20744.07		
11.4	NS-19	Supplying & Fixing of Fiber Optic LC style fully loaded Patch Panel (FOPP), 19" Rack Mount ,Shall have all accessories including coupler plates pre loaded with 24 Nos of LC couplers (OM3) with all accessories complete in all respect .	Each	1	28477.97		
11.5	NS-20	Supplying & Fixing of Fiber Optic Patch Cable (LC-LC), 3 Mtrs. Long, ISO/IEC-11801-OM3 50µ Duplex, LSZH,All patch cords shall conform to EIA/TIA-568C.3 and ISO/IEC-11801,Shall be Duplex Multi Mode Fiber Optic Patch Cords OM3 50µ,Shall support network line speeds up to 10 Gbps.Shall have LC-LC Connector connectors at the ends complete in all respect.	Each	1	25049.15		

11.6	NS-21	Supply & Fixing of OM3 50/125µ Type Pigtaills of ISO/IEC-11801-OM3 Pigtaills with LC Type Connectors.pigtaills for terminating fibers on the FOPP complete in all respect.	Each	10	746.61		
11.7	NS-22	Supplying, Installation, Testing & Commissioning of 50µm, 6-core Multi mode OM3 metallic armored Fiber cable as per ISO/IEC-11801, Shall be able to meet Gigabit & 10 Gigabit Ethernet performance up to 300 meters requirement specified by IEEE 802.3z (1000 Base-X) & IEEE 802.3ae (10G Base-X) Tensile load should be 800 Newton or higher and crush resistance should be 2000 Newton or higher , the fiber construction can be unitube or multitube, but tensile and crush resistance parameters should be matched, the jacket shall be LSZH complete in all respect.	Metre	50	215.25		
11.8	NS-23	Supplying, of 50 Pair anealed tinned copper conductor PVC insulated and sheathed armoured copper telephone cables with suitable clamps, saddles and including making terminal joints complete as required.	Metre	20	580.51		
11.9	NS-24	Supplying, Installation, Testing & Commissioning of of 50 Port telephone Jack Panel Approved.	Each	1	14100.85		
11.10	NS-25	Supplying Installation testing and Commissioning of SFP 1000Base-T 10/100/1000 Copper Transceiver Module for up to 100m transmission on Cat6 complete in all respect.	Each	2	8510.17		
11.11	NS-26	Supplying & Fixing of Floor Standing Network Rack - 12U complete in all respect.	Each	1	14127.97		
11.12	NS-27	8 port 10/100/1000BASE-T POE ports and four GbE/10GbE SFP/SFP+ uplink ports, layer 2from day1 having static & RIP ,stackable upto 10 switches, should support external redundant power supply, certified , each switch should be provided with stacking port/cable	Each	1	15584.75		
11.13	NS-28	Supplying, Laying & Connecting HDMI Fiber Optical Cable 30m Length	Each	1	15529.66		
11.14	NS-29	Supply and Fixing of 2Mtr HDMI Cable.	Each	10	881.36		
		SECTION - IP-PBX SYSTEM					
11.15	NS-30	Supply Installation Testing and Commissioning of IP Phone (12Key)Backlit keypad Hands-free, full duplex Headset support Easy to use soft keys/LCD prompts Directory dialling Navigation wheel Call history , Backlit LCD screen,Bluetooth support (BCAZ),Security lock key XML open interface.	Each	1	11335.59		
11.16	NS-31	Supply Installation, Testing and Commissioning of Analog Speaker Phone with backlight.	Each	6	1299.15		
		SECTION - WI-FI SYSTEMS					
11.17	NS-32	Supply, installation, testing & commissioning of Dual-band 802.11abgn/ac Wireless Access Point, 2x2:2 streams, Single ports, 802.3af PoE support. Does not include power adapter or PoE injector.should Includes Limited Lifetime Warranty and Mounting Kit complet in all respect.	Each	30	41970.34		
11.18	NS-33	Supply, installation, testing & commissioning of Wi-Fi Controller with 4 Gig Ports, with 500 APs license, Power Supply and HA mode alongwith 3 year support.	Each	1	186571.19		
11.19	NS-34	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	Metre	50	39.83		
		SUB TOTAL -(XI)					
XII		IP CCTV SYSTEM					
12.10	NS-35	Supplying, installation, testing and commissioning of 4 megapixels full HD IP outdoor bullet camera with colour night vision built in mic, POE compatible with NVR	Each	12	4988.98		

12.20	NS-36	Supplying, installation, testing and commissioning of 4 megapixels full HD IP Dome wide angle camera with colour night vision built in mic, POE compatible with NVR	Each	20	6652.54		
12.30	NS-37	Supply, installation, testing and commissioning of Network Video Recorder , Live view/Resolution 5MP/3MP/1080p/720p,Motion Detection Control Privacy Mask Control. USB interface-1 × USB 2.0 and 1 × USB 3.0,Security-HTTPS, SSL, Watermark, User Authentication, Miscellaneous-N+1 hot spare. Alarm in/out -4 / 1,Network interface-1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interface, Security-HTTPS, SSL,Video/Audio output-VAG,HDMI and Audio. Watermark, User Authentication,Incoming bandwidth-100Mbps,Outgoing bandwidth-80Mbps,HDMI output,VGA Output,Protocol-IPv4, IPv6, TCP/IP protocol, PPPoE, DHCP, DNS, DDNS, NTP, SADP, SMTP, SNMP, NFS, and iSCSI are supported.TCP, UDP and RTP for unicast, UPnP, ONVIF, PSIA,Support 16 IP Camera, 2 SATA interfaces for 4 HDDs Upto 4TB for each disk.	Each	1	84327.12		
12.40	NS-38	Supply, installation, testing and commissioning of 16TB HDD. Make: WD/Seagate	Each	1	33122.88		
12.50	NS-39	Supply, installation, testing and commissioning of Video Management System (VMS) software shall be used to view live and recorded video from capture cards and IP devices connected to local and wide area networks. The VMS software shall have a client/server-based architecture that can be configured as a standalone VMS system with the client software running on the server hardware and/or the client running on any network-connected TCP/IP workstation. Multiple client workstations shall be capable of simultaneously viewing live and/or recorded video from one or more servers. Multiple servers shall also be able to simultaneously provide live and/or recorded video to one or more workstations. The VMS server software shall also have the ability to be installed on an IP edge device—such as an IP camera or encoder that allows for 3rd party applications—allowing the device to serve as both a server and IP video recording device.The VMS shall not charge for the number of concurrent clients (min. 50 thick clients and 16 mobile clients to be provided along with VMS).	Each	32	9677.12		
12.60	NS-40	Supply, installation, testing & commissioning of 12 Port PoE+ Switch with 2 SFP slots 12 x 10/100/1000 Base-T PoE+ ports and additional 2 100/1000X SFP PORTS Should support PoE+ as per IEEE 802.3 at with PoE budget of 100W.Should support STP, RSTP, MSTP, IGMP v1/v2/v3 snooping, STP root guard, Voice VLAN, MLD snooping (MLDv1 and v2), IEEE 802.3ac VLAN tagging IEEE 802.17/equivalent for sub 50ms ring protection in following scenario : single, dual fibre cuts in ring and when fibre cut at common shared link in between two or more rings.	Each	1	85073.73		
12.70	NS-41	Supply, Installation, Testing and Commissioning of Workstation PC: Intel(R) Core(TM) i7-3770 Processor (8M Cache, up to 3.90 GHz); Memory: 4GB, NON-ECC, 1600MHZ; RAM: 4GB (1x4GB) Non-ECC DDR3 1600MHz SDRAM Memory; Keyboard: 12 function keys; Chassis: Tower/Workstation; DVD: 8X Slimline DVD+/-RW, Data Only; 20" TFT Monitor; Dual Graphics Card; Network interface card: Integrated Intel(R) 82579LM Gigabit1 Ethernet LAN 10/100/1000; Hard disk: 250GB, 7200 RPM 3.5" SATA 6Gb/s Hard Drive; Operating system: Windows 7 Professional 64 Bit.	Each	1	45733.90		

12.80	NS-42	Supplying, Installation, Testing & Commissioning of 55 " LED Full HD TV Resolution 1920 x 1080 , Contrast Ratio (Typical) 5000:1, Built-in Speaker (10W + 10W), Magic Clone (to USB), Auto Source Switching & Recovery, Lamp Error Detection, Super Clear Coating, Temperature Sensor, Plug and Play (DDC2B), Pivot Display, Clock Battery, PIP/PBP, Video Wall (10x10), Image Rotation, Button Lock, HDCP Support, Smart Scheduling, Smart F/W update, Built-In MagicInfo Premium-Swith Mounting Brackets as per Technical Specification complete in all respect.	Each	1	54049.15		
		SUB TOTAL-(XII)					
XIII		CSS, MAIN LT PANEL AND MAIN DISTRIBUTION BOARD					
13.1	NS-43	11 KV / 415 V 250 KVA PACKAGE SUBSTATION					
		Supplying installation, testing and commissioing of Outdoor type Package Substation with facility for internal lighting, earthing, padlocks etc. Connection between Circuit breaker & transformer with 1 no. 3Cx185 sq.mm. XLPE cable/Busbar and connections from transformer to LT ACB with bus bars with Cable termination kits consisting of followings and as per the specifications:					
		3 Way, 11kV, indoor free standing metal clad insulated main 630A VCB (vaccum circuit breaker) with isolator as incomers on incoming and VCB on Transformer feeder suitable for fault making/load breaking complete with all accessories as listed below					
		Microprocessor RELAY for Circuit Breakers – Self Powered SF6 Gas pressure indicator Padlocking facility					
		The Breaker terminals suitable for 3C x 300 sq. mm 11 K.V. XLPE Cable for incomers and Bus bar connection. 3 Nos. Resin cast CTs with 20-10/ 5-5A 10VA class 0.5 accuracy.					
		Set of Resin cast draw out type PTs with 11KV/R3/110V/R3 50VA Class 0.5 accuracy and H.T. Fuse & L.T. MCB.					
		3 phase 50 Hz 250 KVA DYn11 double wound with copper conductor, oil type distribution transformer having a no load voltage ratio of 11/0.415KV . OFF load tap changer Tappings +5% to – 15% in steps of 2.5% each with following accessories.					
		Oil Temperature Indicator.					
		8 Window Annunciator with fault acceptance & reset, alarm etc.					
		Winding temperature indication for all three phases					
		Separate neutral bushing for earthing.					
		Double float Buchholtz relay with alarm and trip for Transformer.					
		All internal wiring between different compartments.					
		Proper lighting inside the cubical.					
		Proper door lock and key.					
		All H.T and L.T cable termination Complete earthing of compact sub station and Neutral and body..					
		1 no. TPN surge protection device of Class 1 & 2.					
		INCOMER					
		1 No. 4 pole 630A ACB (50 kA) & thermal magnetic release. The ACB Terminals shall be suitable for cable connection on outgoing side and direct bus bar connection for Bus Bar.	Set	1	2221695.76		
13.2	NS-44	MAIN LT PANEL, DG PANEL, MAIN DISTRIBUTION BOARD AND SUB DISTRIBUTION					
		MAIN LT PANEL					

		Supplying, installation, testing and commissioning of 415V, 3 Phase, 50 Hz., 4 wire system, sheet steel clad, dust and vermin proof cubical and Indoor type floor mounted, free standing type Main LT Panel with IP - 42 protection, compartmentalized design and fabricated out of 2 mm / 1.6 mm CRCA sheet steel complete with Aluminium Bus bars, Electrical interlocks as per the various status of all the equipments indicated on the drawings. Providing & Fixing of base plate / channel, P/F the following Switchgears, complete with earth Bus bar throughout the length of the panel, terminal arrangement for Incomings / Outgoings cables and also outgoing terminations for various sizes of cables, The incoming and outgoing feeders shall be accommodated in a modular multi-tier arrangement, adequate size bus duct/cable alley, Sign writing, Painting, Earthing, Numbering, Danger plate etc. complete as required as per specifications and drawing.					
		MAIN LT PANEL					
		INCOMING:					
		1 no. 630A 415V, 4P 50kA EDO ACB with Microprocessor based release having O/L, S/C/ , E/F, RPR , O/V, U/V Protection and ON /OFF/TRIP Indications with MCB.					
		1 no. Digital type Multifunction Meters to show (V, A, kWh, KVAh, KW, KVA, KVAR, PF, Hz.) with cast resin CTs.					
		1 Set of LED phase indicating lamps with MCB protection.					
		1 no. Trip Circuit Supervision relays.					
		1 no. TPN surge protection device of Class 1 & 2.					
		1 no. Electronic type Auto matic power factor correction relay with communication port.					
		1 no. 12.5kVAR capacitor bank with 32A TP MCCB of 36kA and ON, OFF, TRIP Indicating lamps.					
		BUSBARS:					
		1 Set of TPN aluminium bus bar of minimum of 800 A capacity with heat shrinkable coloured sleeves and i/c DMC/SMC bus bars supports at required intervals complete for cross section, size supports & their spacing etc, for withstanding fault level of 50 KA for 1 Sec.					
		OUTGOING ON BUS SECTION					
		2 nos. 400A 415V, TP+Neutral Link MCCB of 35kA with O/L and S/C protection and a set of CT's., Multi Function meter (V+A+Hz.)					
		1 no. 250A 415V, TP+Neutral Link MCCB of 35kA with O/L and S/C protection and a set of CT's., Multi Function meter (V+A+Hz.)					
		3 nos. 100A 415V, TP+Neutral Link MCCB of 35kA with O/L and S/C protection and a set of CT's., Multi Function meter (V+A+Hz.)					
		2 nos. 63A 415V, TP+Neutral Link MCCB of 35kA with O/L and S/C protection and a set of CT's., Multi Function meter (V+A+Hz.)					
		CAP. PANEL (62.5 kVAR)					
		INCOMER					
		1 no. 125A 415V, 4P MCCB of 25kA with O/L, S/C and E/F Protection with O/V, U/V protection, ON /OFF/TRIP Indications with MCB					
		1 no. Digital type Multifunction Meters to show (V, A, PF, Hz.) with CT.					
		1 Set of LED phase indicating lamps with 6 Amp. MCB protection.					
		BUSBARS:					
		1 Set of TPN aluminium bus bar of minimum of 300A capacity with heat shrinkable coloured sleeves and i/c DMC/SMC bus bars supports at required intervals complete for cross section, size supports & their spacing etc, for withstanding fault level of 50KA for 1 Sec.					
		OUTGOING					

		1 no. 25kVAR capacitor bank with 63A TP MCCB of 36kA and Contactor, one set of indicating Lights and Push Buttons.					
		1 no. 10kVAR capacitor bank with 25A TP MCCB of 25kA and Contactor, one set of indicating Lights and Push Buttons.					
		3 nos. 5kVAR capacitor bank with 16A TP MCCB of 25kA and Contactor, one set of indicating Lights and Push Buttons.	Set	1	683599.15		
13.3	NS-45	MAIN DISTRIBUTION BOARDS AND SUB DISTRIBUTION BOARDS					
	i	Supplying of 415V, 3 Phase, 50 Hz., 4 wire system, sheet steel clad, dust and vermin proof cubical and indoor type floor mounted, free standing Main Distribution Board with IP - 42 protection, compartmentalized design and fabricated out of 2 mm / 1.6 mm CRCA sheet steel complete with Aluminium Bus bars, Providing & Fixing of base plate / channel, P/F the following Switchgears, complete with earth Bus bar throughout the length of the panel, terminal arrangement for Incomings / Outgoings cables and also outgoing terminations for various sizes of cables, The incoming and outgoing feeders shall be accommodated in a modular multi-tier arrangement, adequate size bus duct/cable alley, Sign writing, Painting, Earthing, Numbering, Danger plate etc. complete as required as per specifications and drawing.					
	i	MDB LIGHT + LIFT (DG SUPPLY) GROUND FLOOR LOCATED IN EL. ROOM (GIRL HOSTEL)					
		INCOMER :					
		1 no. 250A, 415V, Ics=35kA, 4P MCCB with thermal magnetic trip unit.					
		1 no. Digital multifunction meter (V+A+Hz) with a set of cast resin CTs 250/5A and communication port.					
		1 set of Phase indicating lamp with MCB					
		1 no. TPN surge protection device of Class 1 & 2.					
		BUS BARS:					
		400A TPN bus bars of aluminium alloy.					
		OUT GOING:					
		4 nos. 63A, 415V, Ics=25kA, TP +Neutral Link MCCB with thermal magnetic trip unit.					
		6 nos. 63A, 415V, 4P MCB of 10kA.					
		5 nos. 40A, 415V, 4P MCB of 10kA.					
		4 nos. 32A, 415V, 4P MCB of 10kA.					
		AMF LOGIC FOR 1 No. 100 KVA DG Set part of the MDB LIGHT + LIFT.					
		Supply fixing testing and commissioning of Auto Main Failure including auto by-pass panel for the 100 KVA DG set as per specification and requirement.					
		Auto/Manual/Test/Off selector switch					
		Energy analyzer unit to indicate current voltage frequency power factor and KWH					
		Fuse for instruments					
		Battery charger complete with transformer/rectifier, D.C. voltmeter and ammeter, selector switch for trickle, off and boost and current adjustment.					
		Mains supply failure monitor					
		Supply failure timer					
		Restoration timer					
		Control unit with three impulse automatic engine start/stop and failure to start lockout.					
		Impulse counter with locking and reset facility.					

		ON/OFF/Control circuit switch with indicator					
		Audio/Video annunciation for					
		High water temperature					
		Low lubricating oil pressures					
		Engine over speed					
		Engine fails to start					
		The above panel shall be complete as per specification and Single line diagram.	Set	1		398766.10	
13.4	ii	MDB POWER-GROUND FLOOR LOCATED IN EL. ROOM (GIRL HOSTEL)					
		INCOMER :					
		1 no. 400A, 415V, Ics=35kA, 4P MCCB with thermal magnetic trip unit.					
		1 no. Digital multifunction meter (V+A+Hz) with a set of cast resin CTs 400/5A and communication port.					
		1 set of Phase indicating lamp with MCB					
		1 no. TPN surge protection device of Class 1 & 2.					
		BUS BARS:					
		600A TPN bus bars of aluminium alloy.					
		OUT GOING:					
		4 nos. 100A, 415V, Ics=25kA, TP +Neutral Link MCCB with thermal magnetic trip unit.					
		5 nos. 63A, 415V, 4P MCB of 10kA.	Set	1		136719.49	
13.5	iii	SDB POWER-1 & 2 (NORMAL SUPPLY) FIRST FLOOR & SECOND FLOOR LOCATED IN EL. ROOM (R.H.S) (GIRL HOSTEL)					
		INCOMER :					
		1 no. 100A, 415V, Ics=35kA, 4P MCCB with thermal magnetic trip unit.					
		1 no. Digital multifunction meter (V+A+Hz) with a set of cast resin CTs 100/5A and communication port.					
		1 set of Phase indicating lamp with MCB					
		1 no. TPN surge protection device of Class 1 & 2.					
		BUS BARS:					
		200A TPN bus bars of aluminium alloy.					
		OUT GOING:					
		4 nos. 63A, 415V, 4P MCB of 10kA.	Set	2		102539.83	
13.6	iv	SDB POWER-3 (NORMAL SUPPLY) THIRD FLOOR LOCATED IN EL. ROOM (R.H.S) (GIRL HOSTEL)					
		INCOMER :					
		1 no. 100A, 415V, Ics=35kA, 4P MCCB with thermal magnetic trip unit.					
		1 no. Digital multifunction meter (V+A+Hz) with a set of cast resin CTs 100/5A and communication port.					
		1 set of Phase indicating lamp with MCB					
		1 no. TPN surge protection device of Class 1 & 2.					
		BUS BARS:					
		200A TPN bus bars of aluminium alloy.					
		OUT GOING:					
		5 nos. 63A, 415V, 4P MCB of 10kA.	Set	1		102539.83	
13.7	v	SDB LIGHTING-1, 2 & 3 (DG SUPPLY) FIRST, SECOND & THIRD FLOOR LOCATED IN EL. ROOM (L.H.S) (GIRL HOSTEL)					

		INCOMER :					
		1 no. 63A, 415V, Ics=35kA, 4P MCCB with thermal magnetic trip unit.					
		1 no. Digital multifunction meter (V+A+Hz) with a set of cast resin CTs 100/5A and communication port.					
		1 set of Phase indicating lamp with MCB					
		1 no. TPN surge protection device of Class 1 & 2.					
		BUS BARS:					
		150A TPN bus bars of aluminium alloy.					
		OUT GOING:					
		4 nos. 32A, 415V, 4P MCB of 10kA.	Set	3	91146.61		
13.8	vi	SDB UPS GROUND FLOOR LOCATED IN EL. ROOM (GIRL HOSTEL)					
		INCOMER :					
		1 no. 63A, 415V, 4P MCB of 10KA.					
		BUS BARS:					
		150A TPN bus bars of Cu.					
		OUT GOING:					
		2 nos. 40A, 220V, DP MCB of 10kA.					
		7 nos. 25A, 220V, DP MCB of 10kA.	Set	1	74056.78		
		SUB TOTAL (XIII)					
XIV		EARTHING AND MISCELLANEOUS ITEMS					
14.1	NS-46	Supplying and fixing of high voltage insulation mat of class B having 1.1 KV dielectric strength, 1000mm width and thickness of 2.0 mm ISI approved as required including cutting to required lengths.	Mtrs.	10	2322.88		
14.20	NS-47	Supplying and Fixing of Powder Fire Extinguisher (Stored Pressure type) Capacity 06 Kg duly ISI marked conforming to IS: 15683:2006, with IS 14609, ISI marked ABC powder complete with squeeze grip release valve, discharge pipe, locking arrangement, pressure gauge & suitable M.S. bracket as required.	No.	4	6083.05		
14.3	NS-48	Supplying of first aid box as approved complete with standard kit as prescribed by Indian Red Cross.	No.	1	508.47		
14.4	NS-49	Supplying and fixing of shock treatment chart written in English and Local language duly framed in glass as required.	No.	1	254.24		
14.5	NS-50	Supplying, fabrication and installation of MS fabricated cable support / ladder type cable tray cable tray / light fixture supports including welding grouting and painting etc. as required.	Kg	500	116.10		
14.6	NS-51	Supply, installation, effecting proper connection testing and commissioning of the following size GI earth strips/GI wires as required					
	i.	50 mm x 6 mm GI strip	Mtr	60	497.46		
14.7	NS-52	Supply, installation, effecting proper connection testing and commissioning of the following size copper earth strips as required					

	i.	50 mm x 6 mm Copper strip.	Mtr	60	3096.61		
14.8	NS-53	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Metre	100	122.03		
14.9	NS-54	Providing and fixing 25mm x 5mm GI Strip on surface or in recess for connections etc. as required.	Metre	400	206.78		
		SUB TOTAL-(XIV)					
XV		UPS					
		10KVA UPS					
15.10	NS-55	Supply, Installation, testing & Commissioning of microprocessor based 10 kVA UPS, with IGBT based Rectifier and Inverter. UPS Should be True Online Double Conversion (VFI as per IEC62040-3). 3 Phase input & 3 Phase output each comprising of the following.					
	i.	THD(i) shall be less than 5% @ 100% load.					
	ii.	Input power factor shall be more than 0.98. from 50% to 100% load					
	iii.	Shall have Soft start Facility for Compatibility with Generators					
	iv.	Inverter capability to supply 150% load for 30 sec.					
	v.	Shall not allow deep discharge of the battery. There should be a external MCCB available with UV trip coils. The MCCB should disconnect itself in case of UV or emergency conditions.					
	vi.	Shall have inbuilt SNMP, Modbus Cards installed for monitoring on BMS.					
	vii.	UPS to have inbuilt Static By-pass enabled	Set	1	160360.17		
15.2	NS-55(ii)	Supply, fixing, testing and commissioning of battery Bank of 10KVA UPS at 0.80 output power factor strictly as per specification given in the document. Each individuals UPS of 10KVA shall have 30 min. battery back up. Battery Racks, Intercool & Inter Tier Connectors for the battery Banks, External MCCB with UV coils and UPS to Battery Cables for a distance of 20 mtrs.The battery shall comprise of 12 volt cell and size and combination of bank in terms of VAH shall be clearly mentioned with battery claculation with inverter efficiency as 0.94 or less, end of cell voltage shall be taken as 10.5 volts.	Set	1	148834.75		
		SUB TOTAL-(XV)					
XVI		DG SET					
16.1	NS-56	Providing, Installing, testing and commissioning of 'Silent type' Diesel Generating set having prime power rating 100 KVA 415 volts at 1500 RPM, 0.8 lagging power factor at 415 V suitable for 50 Hz, 3 phase system & for 0.85 Load Factor as per present CPCB-IV pollution norms and consisting of the followings:					

		Diesel Engine:Diesel engine 4 stroke radiator cooled, electric start, of suitable BHP at 1500 RPM suitable for above output of alternator at 40 degree C, 50 % RH & at 1000 meter MSL and conforming to ISO-3046-1/1, ISO 15550 capable of taking 10 % over loading for one hour after 12 hours of continuous operation. The engine will be fitted complete with all the required accessories with Mechanical Digital Generator.					
		Alternator : Synchronous alternator rated 100 KVA 415 volts at 1500 RPM, 3 phase 50 Hz, AC supply with 0.8 lagging power factor at 40 Degree C, 50 % RH & at 100 Meter MSL. The alternator shall be having SPDP enclosure, brushless, continuous duty, self-excited and self-regulated through AVR confirming to BS:5000/IEC 60034-1 suitable for tropical conditions and with class H insulation.					
		DG CONTROL PANEL					
		Metering					
		Engine Parameters:-					
		Engine Speed					
		Lube Oil pressure					
		Coolant temperature					
		Engine Running Hour					
		Engine Battery voltage					
		Running status					
		Fuel level in Percentage					
		Event Log with date and time					
		Electrical Parameter:-					
		Generator Voltage (Ph-Ph)					
		Generator Voltage (Ph-N)					
		Generator Current (R,Y,B)					
		Generator Apparent power (kVA)					
		Generator active power(kW)					
		Generator reactive power (kVAr)					
		Generator Power Factor					
		Generator Frequency (Hz)					
		Cumulative Power Consumption in kWh					
		Cumulative Power Consumption in kVAh					
		Cumulative Power Consumption in kVArh					
		Control Supply Voltage					
		Protection					
		Engine:-					
		High Water Temperature					
		Low oil pressure					
		Low Fuel Level					
		Over Speed					
		Engine Fails to Start					
		Electrical:-					
		Generator under Voltage (ANSI-27)					
		Generator over Voltage (ANSI-59)					
		Generator under Frequency (ANSI-81L)					
		Generator over Frequency (ANSI-81H)					
		Generator over Current (ANSI-51)					

	Control Supply under Voltage					
	Control Supply over Voltage					
	Phase Reversal					
	Unbalanced Load					
	Controller					
	Modern genset controllers for AMF applications with an electronically controlled engine (CANbus) and AMF applications with electronic governor.					
	Controller Feature:-					
	User-friendly interface and backlite full graphics LCD					
	Battery voltage monitoring & reverse protection to aux supply					
	7/9 configurable analogue/digital inputs					
	Auto, Manual and Remote Start/Stop Operation					
	Island Operation					
	Automatic Mains Failure Function					
	CANbus Engine interface for communication					
	Log with latest 100 events					
	Fully configurable via PC using USB, RS485 communication					
	DC Battery supply voltage range 8 to 28V					
	Minus 20 to 65 °C operating temperature range					
	IP65 Protection class with gasket					
	LCD alarm indication					
	Power save mode					
	7 configurable Digital output					
	Electrical Specification:-					
	Supply Voltage Range: Nominal Voltage - 12/24 V DC					
	Cranking drop out period: 50 ms					
	Maximum reverse voltage protection: -32 V DC					
	Measurement accuracy (battery voltage): ±1 % Full scale					
	Resolution: 0.1 V					
	Maximum current consumption ~200 mA					
	Deep sleep current: 20 mA, 12/24 V DC					
	Environmental Specification:-					
	Operating Temp: -20 to 65°C in compliance with IEC60068					
	Vibration: 2G in X, Y and Z axes for 8 to 500Hz in compliance with IEC 60068-2-6					
	Shock: 15 g for 11 ms in compliance with IEC 60068-2-27					
	Humidity: 0 to 95% RH in compliance with IEC 60068-2-78					
	Protection Degree: IP65 Protection class with gasket in compliance with IEC60529					
	EMI/EMC in compliance with IEC 61000-6-2, 4					
	Base Frame & Foundation: Both the engine and alternator shall be mounted on suitable base frame of MS channel with necessary reinforcement which shall be installed on suitable cement concrete foundation and vibration isolation arrangement as per recommendations of manufacturer					

		Starting System:24 V DC starting system comprising of starter motors: voltage regulator and arrangement for initial excitation complete with suitable nos. of batteries as required as per specification.					
		Exhaust System:Dry exhaust manifold with hospital exhaust silencer and suitable bellows between silencer and engine exhaust..					
		Starting System:24 V DC starting system comprising of starter motors: voltage regulator and arrangement for initial excitation complete with suitable nos. of batteries as required as per specification.					
		Accoustic and weather proof enclosure with arrangement for fresh air intake for cooling of the engine & alternator, extraction, discharging hot air in to the atmosphere as per specifications with inbuilt fuel tank.					
		1 no. 250 Amps 4 pole MCCB including connection with copper cable / lead with alternator and suitable out going terminals for connection with 1 no.x 300 sq.mm Al Ar. XLPE cables of required sizes. The MCCB shall be mounted inside the canopy complete as required.	Set	1	1309745.76		
16.2	NS-57	Supply, fixing and commissioning 285 ltrs capacity 16 SWG MS steel, Diesel oil Tank with manhole, PVC gauge, inlet and outlet connections with gate valve, drain plug, piping between tank and engine vent etc. mounted on suitable MS staging to maintain gravity flow of diesel oil from tank to DG set including painting etc. as required	Set	1	26194.92		
16.3	NS-58	Supply, erection and commissioning of following size of additional exhaust piping with heat resistive glass wool and then cladded with Al. Foil all along the pipe including fixing of pipe with MS clamps on walls / MS structure as required.					
	i	100 mm dia Class - B MS pipe.	RM	5	3810.17		
16.4	NS-59	Supply, fixing testing and commissioning of 25 mm dia. Class C, MS pipe with welded joints.	RM	25	452.54		
16.5	NS-60	Control Cables					
		Copper control cable amoured type XLPE 1.1KV grade					
	i	2Cx2.5sqmm	RM	25	151.69		
	ii	4Cx2.5sqmm	RM	25	253.39		
	iii	12Cx2.5sqmm	RM	25	673.73		
		SUB TOTAL-(XVI)					
XVII		FIRE ALARM AND DETECTION SYSTEM					
17.1	NS-61	Supplying, installation, testing and commissioning of sector panel suitable for following zone, complete with visual indications for short circuit fault, open circuit fault, fire condition and all other standard facilities as per IS 2189 with mimic diagram for all area/zone covered, complete with all connection interconnection as required.					
	i	4 Zone Panel	Each	1	7513.56		
17.2	NS-62	Supplying, installation, testing & commissioning of manual call boxes of MS construction in surface/ recess with stainless chain & hammer assembly complete with glass and push button etc. as required.	Each	4	401.69		
17.3	NS-63	Supplying, installation, testing & commissioning of fire alarm sounder with facility to make announcement, mounted in MS box (16 SWG) with hinged plate and cover & suitable for operation with amplifier i/c line matching transformer etc. as required.	Each	4	472.03		

17.4	NS-64	Supplying, installation, testing & commissioning talk back slave station in surface/recess suitable for operation on simplex mode complete with P.T.T. knob & speaker/microphone enclosed in a M.S.(16 SWG)/ ABS box with break glass in front etc. complete as required.	Each	4	766.95		
17.5	NS-65	Supplying & laying of 2x1.5 sqmm fire survival armoured cable, 600/1000V rated with annealed copper conductor having glass mica fire barrier tape covered by an extruded layer of Cross Linkable Ethylene Propylene Rubber (EPR) insulation and LSZH inner bedding, steel wire armouring & LSZH outer sheath complete as required.	Metre	50	304.24		
		SUB TOTAL- (XVII)					

COST SUMMARY FOR VC RESIDENCE			
S. NO.	DESCRIPTION	AMOUNT WITHOUT GST	REMARKS
	CIVIL WORKS		ANNEXURE-1
1	SUB HEAD I - EARTH WORKS		
2	SUB HEAD II - CONCRETE WORK		
3	SUB HEAD III - R.C.C WORKS		
4	SUB HEAD IV - BRICK WORK		
5	SUB HEAD V - STONE WORK		
6	SUB HEAD VI - FLOORING		
7	SUB HEAD VII - FINISHING		
8	SUB HEAD VIII - WOOD WORK & PVC WORK/ALUMINIUM		
9	SUB HEAD IX- STEEL WORK		
10	SUB HEAD X- WATER PROOFING		
11	SUB HEAD XI- NON SCHEDULE ITEMS		
	Total Amount of Civil works		
2	PLUMBING WORKS		ANNEXURE-2
1	SANITARY FIXTURES & CP BRASS FITTINGS		
2	SOIL, WASTE, VENT PIPE & RAIN WATER		
3	WATER SUPPLY SYSTEM		
4	SEWERAGE AND DRAINAGE		
5	WATER SUPPLY DISTRIBUTION SYSTEM OVER TERRACE.		
	Total Amount of Plumbing works		
3	ELECTRICAL WORKS		ANNEXURE-3
1	DISTRIBUTION BOARDS		
2	POINT WIRING		
3	SUPPLY OF LIGHT FIXTURE AND FANS		
4	DATA AND TELEPHONE NETWORK		
5	LT & HT CABLE		
6	EARTHING AND MISCELLANEOUS ITEMS		
	ELECTRICAL NON SCHEDULE ITEMS		
7	DISTRIBUTION BOARDS		
8	POINT WIRING		
9	SUPPLY OF LIGHT FIXTURE AND FANS		
10	DATA AND TELEPHONE NETWORK		
11	MAIN LT PANEL AND MAIN DISTRIBUTION BOARD		
12	EARTHING AND MISCELLANEOUS ITEMS		
	Total Amount of Electrical works		
	Grand Total (Civil + Plumbing + Electrical)		

CIVIL WORKS FOR VC RESIDENCE							
S. No.	HSR 2021/NS	DESCRIPTION OF ITEM	UNIT	QTY	ESTIMATED RATE WITHOUT GST (INR)	QUOTED RATE WITHOUT GST (INR)	AMOUNT OF ITEMS (INR)
I		SUB HEAD I - EARTH WORKS					
1	4.12	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.					
		All kinds of soil	cum	752.64	77.68		
2	4.32	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 m and lift upto 1.5 m.	cum	752.64	46.43		
3	4.39	Providing and injecting chemical emulsion for PRE- sqm CONSTRUCTIONAL anti termite treatment and creating a chemical barrier under and around the column pits, wall trenches, basement excavation, top surface of plinth filing junction of wall and floor, along with the external perimetre of building, expansion joints surrounding of pipes and conduit etc, complete (plinth area of the building at ground floor only shall be measured) using Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	sqm	631.00	283.93		
4	6.13	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	Sqm	103.20	306.25		
		SUB TOTAL-I					
II		SUB HEAD II - CONCRETE WORK					
1	6.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
		All works up to plinth level:					
	6.1.6	1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	cum	65.00	2,441.96		

		SUB TOTAL-II					
III		SUB HEAD III - R.C.C WORKS					
		CENTRING AND SHUTTERING (FORM WORK)					
2	6.30	Centering and shuttering including strutting, propping etc. and removal of form for					
i	6.30.1	Foundations, footings, bases of columns, etc. for mass concrete	sqm	321.87	156.25		
ii	6.30.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	sqm	22.46	282.14		
iii	6.30.3	Suspended floors, roofs, landings, balconies and access platform	sqm	719.43	208.04		
iv	6.30.4	Shelves (Cast in situ)	sqm	66.94	223.21		
v	6.30.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	916.31	296.43		
vi	6.30.6	Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	602.78	261.61		
3	6.33	Steel reinforcement for R.C.C. work, where not included in the complete rate of RCC, including straightening, cutting, bending, placing in position, binding, wastage, overlaps, welded joints, spacer bars, chairs, stays, hangers and annealed steel wire etc. complete in all respect below plinth level. Note:- Reinforcement shall be measured in length including hooks, if any, separately for different diameters as actually used in work , excluding overlaps. Wastage, overlaps, couplings, welded joints, spacer bars, chairs, stays, hangers and annealed steel wire or other methods of binding & placing shall not be measured and cost of these items shall be deemed to be included in the rates for reinforcement.					
	6.33.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	16417.90	66.07		
4	6.34	Steel reinforcement for R.C.C. work, where not included in the complete rate of RCC, including straightening, cutting, bending, placing in position, binding, wastage, overlaps, welded joints, spacer bars, chairs, stays, hangers and annealed steel wire etc. complete in all respect above plinth level. Note:- Reinforcement shall be measured in length including hooks, if any, separately for different diameters as actually used in work , excluding overlaps. Wastage, overlaps, couplings, welded joints, spacer bars, chairs, stays, hangers and annealed steel wire or other methods of binding & placing shall not be measured and cost of these items shall be deemed to be included in the rates for reinforcement.					
	6.34.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	22011.48	67.86		

5	6.25	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.					
		(Note :- Cement content considered in this item is @ 330 kg/cum. Less cement used as per design mix is recoverable. However no extra payment shall be made if excess cement is used as per design mix).					
i	6.25.1	All works upto plinth level	Cum	252.21	4463.39		
ii	6.25.2	All works above plinth level upto floor IV level	Cum	207.53	4500.89		
6	6.26	Extra for providing richer mixes up to plinth and at all floor levels.					
		(Note :- Less cement used as per design mix is recoverable. However no extra payment shall be made if excess cement is used as per design mix).					
i	6.26.1	Providing M-30 grade concrete instead of M-25 grade BMC/ RMC. (Note:- Cement content considered in M-30 is @	Cum	380.70	58.93		
ii	6.26.2	Providing M-35 grade concrete instead of M-25 grade BMC/ RMC. (Note : Cement content considered in M-35 is @	Cum	79.02	118.75		
		SUB TOTAL-III					
IV		SUB HEAD IV - BRICK WORK					
1	7.21	Brick work with common burnt clay non-modular bricks of class designation 10.5 in foundation and plinth in:					
	7.21.1	Cement mortar 1:4 (1 cement: 4 coarse sand)	cum	6.67	4127.68		
2	7.47	Brick work with non modular fly ash bricks conforming to IS :12894, class designation 10 average compressive strength in super structure above plinth level up to floor IV level in :					
i	7.47.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	187.85	4070.54		
3	7.31	Half brick masonry with non modular fly ash bricks of class designation 10, conforming IS :12894, in super structure above plinth and up to floor IV level.					
	7.31.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	471.20	474.11		
4	7.30	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry.	Sqm	471.20	75.00		
		SUB TOTAL-IV					

V		SUB HEAD V - STONE WORK					
1	8.26	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.					
		Granite of any color and shade- <i>Kitchen/Toilet Counters/sill/Coping</i>					
	8.26.2.2	Area of slab over 0.50 sqm	sqm	86.33	2775.89		
2	8.28	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	each	6.00	392.86		
		SUB TOTAL-V					
VI		SUB HEAD VI - FLOORING					
1	10.10	Providing and laying Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.					
	10.10.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm	11.98	267.86		
2	10.50	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.					
	10.50.1	Polished Granite stone slab jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	sqm	182.99	2706.25		
3	10.51	Providing and fixing granite stone in all shades 15mm to 18 mm thick in skirting /dado, risers of steps, pillars and wall facing, laid in any pattern as specified over base of 12mm thick cement coarse sand mortar 1:3 and jointed with white cement slurry mixed with pigment to match the shade of Granite including labour for fixing cramps pins and dowels etc.	sqm	4.59	2533.93		

4	10.58	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	402.23	538.39		
5	10.63	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 @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.					
	10.63.2	Size of Tile 600x600 mm	Sqm	389.84	986.61		
6	10.67	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.					
	10.67.2	Size of Tile 600x600 mm	Sqm	24.66	1003.57		
7	6.1.4	Cement concrete flooring 1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	sqm	5.68	2910.71		
8	10.37	Providing and fixing of 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) :					
	10.37.1	25mm thick	sqm	218.56	790.18		
9	10.38	Providing and fixing of 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	2.00	835.71		

10	10.96	Providing and fixing Glass mosaic tiles on finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design , fixing in customize design as per direction of Engineer-in- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge:	sqm	35.38	2650.00		
11	10.1	Providing and laying of base course of floors consisting of 100 mm thick cement 1 :8: 16 and 100 mm sand or stone filling.	Sqm	542.00	259.82		
		SUB TOTAL-VI					
VII		SUB HEAD VII - FINISHING					
1	11.1	6 mm cement plaster of mix :					
	11.1.1	1:3 (1 cement : 3 fine sand)	Sqm	493.44	96.43		
2	11.8	12 mm cement plaster of mix :					
	11.8.2	1:6 (1 cement: 6 coarse sand)	Sqm	680.20	105.36		
3	11.9	15 mm cement plaster on rough side of single or half brick wall of mix:					
	11.9.2	1:6 (1 cement: 6 coarse sand)	Sqm	453.47	127.68		
4	11.18	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	Sqm	971.90	165.18		
5	11.74	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.					
	11.74.2	Two coats	Sqm	1627.64	38.39		
6	11.82	Painting the wooden / metal surface with synthetic enamel paint of approved brand and manufacture to give an even shade :					
	11.82.1	Two or more coats on new work	Sqm	52.00	49.11		
7	11.91	Melamine polishing on wood work (one or more coat).	Sqm	50.00	56.25		
8	11.61	White washing with lime to give an even shade :					
	11.61.1	New work (three or more coats)	sqm	50.00	13.39		
9	11.96	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade					
	11.96.1	New work (Two or more coats applied @ 1.43 litre/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	sqm	971.90	84.82		

10	11.58	Providing and applying two coats white cement based putty of approved brand and manufacturer, over plastered surface and grinding the surface smooth with sand paper to get an even and smooth finish including cost and carriage of all material , labour charges, scaffolding, sundries etc. complete	sqm	2599.54	32.14		
		SUB TOTAL-VII					
VIII		SUB HEAD VIII - WOOD WORK & PVC WORK/ALUMINIUM WORK					
1	12.37	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:					
i	12.37.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	98.97	1400		
ii	12.37.3	25 mm thick (for cupboard) including ISI marked nickel plated sqm	sqm	67.28	1316.07		
2	12.12	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.					
	12.12.2	1.0 mm thick	sqm	332.50	459.82		
3	12.39	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	166.25	348.21		

4	12.157	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) :					
	12.157.1	For fixed portion					
	12.157.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	2386.23	350.00		
5	12.157.2	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)					
	12.157.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	1212.09	402.68		
6	12.159	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):	sqm		0.00		
i	12.159.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	Sqm	48.79	666.96		
iii	12.159.4	With float glass panes of 8 mm thickness (weight not less than 20 kg/sqm)	Sqm	61.56	1065.18		
7	12.140	Providing and fixing steel roller for uPVC sliding window with necessary screws etc. complete.	each	18.00	70.54		
8	12.141	Providing and fixing steel roller for uPVC sliding door with necessary screws etc. complete.	each	30.00	116.07		
9	12.142	Providing and fixing steel (white power coated) crescent lock for uPVC sliding window/ door with necessary screws etc. complete.	each	30.00	139.29		
10	12.750	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete					
	12.75.1	125 mm	each	60.00	82.140		

		SUB TOTAL-VIII					
IX		SUB HEAD IX- STEEL WORK					
		PRE-PAINTED / POWDER COATED GALVANISED SHEET DOOR/WINDOW FRAMES AND WINDOW SHUTTERS					
1	13.29	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.					
	13.29.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	kg	1775.33	83.04		
2	13.5	Providing and fixing carbon steel galvanised (minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm ²), counter sunk head, comprising of 10 mm dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/ masonry, etc. as per direction of Engineer-in-charge.					
i	13.5.2	10 x 80 mm-For Fixing Railings	each	167.50	63.39		
ii	13.5.3	10 x 120 mm	each	258.00	77.68		
3	13.41	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	kg	1978.25	395.54		

4	9.47	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm centre to centre 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 centre to centre to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main 'T' runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1 .6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm centre to centre along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.					
	9.47.1	GI Metal Ceiling Lay in plain Tegular edge Global white colour tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.	sqm	50.27	920.54		
		SUB TOTAL-IX					
X		SUB HEAD X - WATER PROOFING					

1	28.15	<p>Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying :</p> <p>(a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours.</p> <p>(b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry. (Toilet + Balcony + Kitchen)</p>	sqm	236.98	233.04		
		WATERPROOFING TREATMENT TO TERRACE AREA USING TWO COMPONENT 100% SOLIDS HYBRID POLYUREA COATING					
2	28.17	<p>Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:</p> <p>(a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls up to 300 mm height including cleaning the surface before treatment.</p> <p>(b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1 :5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1 :5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls up to 300 mm height including rounding of junctions of walls and slabs.(c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge.</p> <p>(d) Finishing the surface with 20 mm thick joint less cement mortar of mix 1 :4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.</p> <p>(e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. "All above operations to be done in order and as directed and specified by the Engineer-in-Charge:</p>					

	28.17.1	With average thickness of 120 mm and minimum thickness at sqm khurra as 65 mm.	sqm	630.00	664.29		
3	28.20	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.					
	28.20.1	For vertical surface two coats @ 0.70 kg per sqm	Sqm	21.02	398.21		
	28.20.2	For horizontal surface one coat @1.10 kg per sqm	Sqm	14.36	310.71		
		SUB TOTAL X					
XI		SUB HEAD XI- NON SCHEDULE ITEMS					
1	NS-1	Making & Finishing Nosing as per Drawing & Details in Granite tread	meter	123.75	78.81		
2	NS-2	Providing and laying vitrified floor tiles (Mat Finish) 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 colors and shades, laid with approved make adhesive including providing 3mm X 3mm spacers on all sides of tile joints etc. complete. including grouting the joints with epoxy grout.					
		Size of Tile 600x600 mm (Toilet, Kitchen)	sqm	88.44	875.42		
3	N.S-3	Providing and fixing bright /matt finished Stainless Steel (Grade 316) handles of approved quality & make with necessary screws etc. all complete. 300mm long as per approved Design(make) for Glass door shutter					
	i	Glass door shutter	set	4.00	2878.81		
	ii	Cub Boards shutter	set	22.00	2075.42		
4	N.S-4	Providing and fixing bright /matt finished Stainless Steel Locking arrangement in glass shutters of approved quality & make with necessary screws etc. all complete of approved Design & make)	nos	4.00	3808.47		

5	N.S-5	Providing and fixing SS Metallic Door stopper (semi circular shape) fixed on Granite/Tile flooring with necessary	nos	2.00	336.44		
6	N.S-6	12 mm thk toughened glass in fixed portion Providing and fixing 12 mm thick toughened glass of approved brand and manufacture, in Panels at the entry wall of Officers cabin of level including necessary beading with screws & sealing of all joints with DOW cornice sealant or equivalent as per approved drawing & Design etc. to the entire satisfaction of engineer-in-charge.	sqm	59.71	2978.81		
7	NS-7	Providing & fixing mortise lock with both side key with handle SS of matt/polished finish of approved makes for internal doors . Size - 8" (Lever handle with rosettes, 125 mm long, 19 mm dia.)	nos	38.00	2212.71		
8	N.S-8	Providing and fixing bright finished S.S. Grade-316 Matt/Polish finish of approved makes tower bolts (barrel type) with necessary screws etc. complete :					
	i	300 x10 mm	each	65.00	849.15		
	ii	200 x10 mm	each	43.00	627.97		
9	NS-9	Providing and fixing Matt finished SS Grade 304 hanging type floor door stopper with necessary screws, etc. complete.-Flush Doors	nos	43.00	344.92		
10	NS-10	Providing and fixing Rubber buffer with necessary screws, etc. complete.	nos	43.00	48.31		
11	NS-11	Providing and fixing SS 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 (Cup Boards)					
		250x16 mm	nos	11.00	880.51		
12	NS-12 (HSR-10.73)	Providing and fixing ceramic & Glazed tiles/ vitrified tiles/ of any size of approved make in floors / dados, laid in any pattern as specified over base of 3 mm thick adhesive of reputed brands as per IS specification 15477-2004 using 5 Kg. adhesive per sqm area of tiles and jointed with white cement slurry mixed with pigment to match the shade of tiles including cost of tiles.	Sqm	435.72	1228.81		
		SUB TOTAL XI					

PLUMBING WORKS FOR VC RESIDENCE							
S. No.	HSR 2021/NS	DESCRIPTION OF ITEM	UNIT	QTY	ESTIMATED RATE WITHOUT GST (INR)	QUOTED RATE WITHOUT GST (INR)	AMOUNT OF ITEMS (INR)
1.0		Sanitary Fixtures & CP Brass Fittings					
1.01	22.2	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:-					
	22.2.1	White vitreous chinaware Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	Each	3	3186.61		
1.02	22.10	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:					
	22.10.1	Kitchen sink with drain board					
	22.10.1.1	510x1040 mm bowl depth 250 mm	Each	2	3718.75		
1.03	22.10.2	Kitchen sink without drain board					
	22.10.2.1	610x510 mm bowl depth 200 mm	Each	4	2619.64		
1.04	22.14	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete					
	22.14.2	Flexible pipe	Each	6	56.25		
	22.14.2.1	32 mm dia					
1.05	22.15	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	Each	11	734.82		
1.06	22.24	Providing and fixing white vitreous chinaware pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous chinaware flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :					
	22.24.1	W.C. pan with ISi marked white solid plastic seat and lid	Each	11	4385.71		
1.07	22.42	Providing and fixing toilet paper holder:					
	22.42.1	C.P. brass	Each	11	389.29		
1.08	22.105	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.					
	22.105.1	15 mm nominal bore	Each	11	511.61		

1.09	22.108	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931					
	22.108.1	15mm nominal bore	Each	64	443.75		
1.10	22.117	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	11	126.79		
1.11	22.118	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	Each	8	166.96		
1.12	22.127	Providing and fixing PTMT soap Dish Holder having length of 138mm,breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	Each	8	101.79		
1.13	22.128	Providing and fixing Unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.					
	22.128.2	15 mm nominal bore with 45 cm length	Each	53	76.79		
1.14	22.212	Providing and fixing in position best Indian make coat and hat hooks fixed into wall with C.P. brass screws and rawl plugs etc. complete including cutting and making good the walls etc.					
	22.212.1	C.P Brass					
	22.212.1.3	Three Way	Per Set	19	134.82		
1.15		Providing and fixing in position best Indian make (to the approval of the engineer-in-charge) storage type automatic electric water heater, pressure/non-pressure type thermostatically controlled, suitable for operation on 230 volts, 50 cycles single phase vertical wall mounting fitted with-draw able and adjustable type AC, thermostat. Thermostat knob to be readily accessible through the opening of suitable cover for and adjustment of temperature in the installed position of heater and the thermostat should be withdrawn without having to drain the water, electric heating element made out of copper tube (heating element should be easily removed and replaced in the installed position of heater) A neon indicator 1 AMP, inner container made out of copper tinned both from inside and outside, outer container made out of mild steel sheet finished in gleaming white stove enamel paint, insulated between the inner and outer with fibre glass wool with 1 metre length of suitable capacity 3 core flexible cord with plug and non return valve plastic/lead connections or pressure release valve (where required). Complete including fixing and testing for a week (as required by Engineer-in-charge).					
	22.216.1	25 Litres capacity	each	5	8085.71		

1.16	NS-1	Providing and fixing first quality Popular colour vitreous china under counter rectangular / oval/round lavatory basin, approx size 550x410 mm for under counter mounting, with 15 mm C.P. brass hot and cold single lever mixer, Specially fabricated C.I./M.S. brackets, painted with two or three coats of enamel paint of approved shade over a coat of primer, 32 mm C.P. brass waste and pipe to wall with C.P. brass flange and rubber adopter for waste connection complete including filling gap between counter and wash basin with approved type poly sulphide sealant, cutting and making good the walls wherever required.	Each	2	5175.42		
1.17	NS-2	Providing and fixing first quality Popular colour vitreous china under counter rectangular / oval/round lavatory basin, approx size 550x410 mm for under counter mounting, with 15 mm C.P. brass single lever Piller tap, Specially fabricated C.I./M.S. brackets, painted with two or three coats of enamel paint of approved shade over a coat of primer, 32 mm C.P. brass waste and pipe to wall with C.P. brass flange and rubber adopter for waste connection complete including filling gap between counter and wash basin with approved type poly sulphide sealant, cutting and making good the walls wherever required.	Each	6	4487.29		
1.18	NS-3	Providing & fixing C.P. hand spray with lever control (health faucet) and flexible hose 1 m long connection with C.P. holder for hand spray complete in all respects. (Angle valve to be provide under item no. 18 and measure with that item.)	Each	11	1446.61		
1.19	NS-4	Providing and fixing only 15 mm C.P. brass Wall mounted single lever hot and Mixing fitting for kitchen sink with swinging spout, 450 mm copper pipes and brass nuts complete including cutting & making good the walls where required.	Each	6	3464.41		
1.20	NS-5	Providing and fixing 15mm dia C.P. brass single flow Shower Rose with shower arm 190 mm long light body with C.P brass threaded wall flange.	Each	8	1688.98		
1.21	NS-6	Providing and fixing C.P. brass single lever concealed Divertor for shower system, complete including cutting and making good the walls wherever required.	Each	8	6637.29		
1.22	NS-7	Providing and fixing C.P. brass spout heavy casted body with flange complete including cutting and making good the walls wherever required.	Each	8	1472.03		
1.23	NS-8	Providing & fixing storage type electric hot water heater made out of heavy gauge steel jacket finished with rust proof baked-on glossy white enamel paint, inside glass lined heavy gauge copper tank, 25 mm thick polyurethane foam insulation, thermostatically controlled immersion heater with pilot neon lamp, replaceable magnesium anode bar, suitable for 8.0 bar maximum working pressure, cold water inlet and hot water outlet pipe, suitable length of electrical cable and 15 amp 3 pin plug top, complete in all respect including testing etc.(Horizontal/Vertical).					

	(i)	15 Ltr Capacity	Each	6	5704.24		
		Total of Sub Head-1					
2.0		Soil, Waste, Vent Pipe					
2.01	22.222	Providing and fixing in position singel socket SWR UPVC soil waste or antisiphonage pipes as per IS 13592 of E.D.C manufacture or of any other reputed firm including cutting, jointing, wastage, but excluding cost of jointing.					
	22.222.2	Single Socket Type B					
i	22.222.2.2	110mm old SWR UPVC pipe lines laid complete	Meter	156	322.32		
ii	22.222.2.4	75mm old SWR UPVC pipe lines laid complete	Meter	6	241.96		
2.02	NS-9	Installation, jointing and testing uPVC pipe 6 Kg/sqcm class IV (IS 4985-2000) including injection moulded fittings with bosses where required e.g. tees, bends, plugs, clamps, couplings and adapters and jointing with adhesive approved by fittings manufactures including cutting and making good the walls and floors as required at site.					
	i	40 mm O.D.	Meter	13	194.92		
	ii	50 mm O.D.	Meter	18	355.08		
	iii	63 mm O.D.	Meter	21	421.19		
2.03	NS-10	Installation, jointing and testing uPVC 'P'-Trap with hight riser including the cost of PVC Reducing tee,for connection form floor drains etc., as shown on the drawings including making the joint with cement rubber ring or solvent/ weld joints to trap .	Each	15	462.71		
2.04	NS-11	Installation, jointing and testing floor drains with 110 mm x 63 mm uPVC elbow set in cement conc. complete in all respects.	Each	5	335.59		
2.05	NS-12	Installation, jointing and testing PVC 100 mm dia floor clean out plug made out of uPVC bend , PVC pipe piece, threaded PVC socket (FTA) with minimum 100 mm cap, suitable insert keys for opening, including making joint to PVC main line as required complete in all respects.	Each	2	868.64		
2.06	NS-13	Providing and fixing stainless steel grating 125 mm dia , 6 mm thick of approved make	Each	20	294.92		
2.07	22.53	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. :					
	i	2.53.1 For 100 mm dia pipe	Each	45	144.64		
	ii	2.53.2 For 75 mm dia pipe	Each	2	141.07		

		Rain Water Pipes					
2.08	9.18	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1 :2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1 :3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	Each	6	147.32		
2.09	NS-14	Providing, laying & jointing in position PVC pipe conforming to IS:4985:1988 and suitable for the respective working pressures with all fittings and accessories e.g. couplings, tees, bends, reducers, clamps, screwed adapters, flanged tail pieces etc. jointing as per manufacturers' instructions.					
	i	PVC pipe 110mm-6 kg/cm2	Meter	28.00	616.10		
	ii	PVC pipe 160mm-6 kg/cm2	Meter	52.8	1159.32		
		Total of Sub Head-2					
3.0		Water Supply System					
3.01	22.86	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.					
	i	22.86.1 15 mm nominal outer dia Pipes	Meter	44.99	205.36		
	ii	22.86.2 20 mm nominal outer dia Pipes	Meter	114.4	264.29		
	iii	22.86.3 25 mm nominal outer dia Pipes	Meter	9.9	333.04		
	iv	22.86.4 32 mm nominal outer dia Pipes	Meter	5	428.57		
3.02	22.85	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					
	i	22.85.1 15 mm nominal outer dia Pipes	Meter	5	130.36		
	ii	22.85.2 20 mm nominal outer dia Pipes	Meter	135	181.25		
	iii	22.85.3 25 mm nominal outer dia Pipes	Meter	119	234.82		

iv	22.85.4	32 mm nominal outer dia Pipes	Meter	130	310.71		
v	22.85.5	40 mm nominal outer dia Pipes	Meter	24	429.46		
vi	22.85.6	50 mm nominal outer dia Pipes	Meter	20	648.21		
3.03	22.87	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work					
	22.87.3	25 mm nominal outer dia Pipes	Meter	22	200.89		
3.04	22.88	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work- Exposed on wall					
	22.88.4	32 mm dia nominal bore	Meter	22	351.79		
3.05	22.91	Providing and fixing G.I. pipes complete with G.I. fittings including trenching up to 0.30m to 1.00m depth and refilling etc. External work					
	22.91.4	32 mm dia nominal bore	Meter	6	295.54		
3.06	NS-15	Providing, fixing, testing and commissioning Brass Ball valve with SS 304 ball, SS stem, renewable PTFE seat, teflon gland packing, stanmdard bore, lever operated, screwed female threads, body and seat test pressure 500 Psig. Complete in all respects.					
	i	20 mm nominal bore	Each	24	638.14		
	ii	25 mm nominal bore	Each	16	994.07		
	iii	32 mm nominal bore	Each	2	1641.53		
	iv	40 mm nominal bore	Each	1	2377.12		
3.07	NS-16	Providing and fixing thermal insulation tubing PIMF (XPE laminated with metalised polyster foil on one side for G.I. / Copper hot water pipes (chases / burried locations/ exposed in false ceiling area), a elastomeric flexible material having hermetic blister closed cell structure of expanded synthetic rubber over pipes of following nominal bores and thickness with all required accessories as required. (For nominal dia of pipes as below)					
	i	15mm dia nominal bore	Meter	14.3	66.95		
	ii	20mm dia nominal bore	Meter	28.6	72.88		
	iii	25mm dia nominal bore	Meter	5	80.51		
3.08	NS-17	Providing, fixing, testing and commissioning Brass Float valve with copper float, SS stem, renewable PTFE seat, teflon gland packing, stanmdard bore, lever operated, screwed female threads, body and seat test pressure 500 Psig. Complete in all respects.					
		25 mm nominal bore	Each	2	2526.27		

3.09	25.3	Supplying, fixing, testing and commissioning of Butterfly valves PN 16 rated without insulation for water circulation as per specifications.					
	25.3.9	50mm dia	Each	2	1584.82		
3.10	25.6	Supplying, fixing, testing and commissioning o STRAINER flanged end & PN 16 pressure rating as specified.					
	25.6.7	50 mm dia.	Each	1	2917.86		
3.11	22.181	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS: 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Leter	2000	7.14		
		Total of Sub Head-3					
4.0		Sewerage and Drainage					
4.01	4.16	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, 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:					
	4.16.1	All kinds of soil					
i	4.16.1.2	Pipes, cables etc. exceeding 80 mm metre dia. but not exceeding 300 mm dia	Meter	40	64.29		
ii	4.16.1.3	Pipes, cables etc. exceeding 300 mm metre dia but not exceeding 600 mm	Meter	5	131.25		
4.02	NS-18	Providing, laying and jointing HDPE Double Wall Coil (DWC) SN-4 Grade pipes confirming to IS: 16098 including all fittings wherever required e.g., tees, bends of any degree, couplings, adapters, plugs, unions etc. including the cost of centering and shuttering and jointing as manufacturer recommondation etc. including testing of joints etc.					
	i	150 mm diameter	Meter	21	371.19		
	ii	200 mm diameter	Meter	11	433.90		
4.03	22.164	Providing and laying cement concrete 1:5:10 (1 cement: 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design					
	i	150 mm diameter S.W. pipe	Meter	21	383.04		
	ii	200 mm diameter S.W. pipe	Meter	11	447.32		
4.04	NS-19	Providing and fixing square-mouth PVC gully trap sutable for hdpe dwc pipe complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:					

	i	160 x 110 mm size P type					
		With sewer bricks	Each	13	4046.61		
4.05	NS-20	Providing and laying Non Pressure NP-3 class (Medium duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1 :2 (1 cement : 2 fine sand) including testing of joints etc. (Based on HSR-22.169)					
	i	200 mm dia RCC pipes	Meter	8	745.76		
	ii	300 mm dia RCC pipes	Meter	5	1079.66		
4.06	22.206	Constructing brick masonry road gully chamber 45x45x77.5 cm with bricks in cement mortar 1 :4 (1 cement : 4 coarse sand) with precast R.C.C. vertical grating complete as per standard design					
	22.206.1	With common burnt clay non-modular bricks of class designation 7.5	Each	5	3281.25		
4.07	22.190	Constructing brick masonry manhole in cement mortar 1 :4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1 :1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1 :4:8 mix (1 cement : 4 coarse sand (Zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1 :3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1 :2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :					
	22.190.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :					
	22.190.1.2	With Sewer bricks conforming to IS : 4885	Each	8	6597.32		
4.08	22.191	Extra for depth for manholes :					
	22.191.1	Size 90x80 cm					
	22.191.1.2	With Sewer bricks conforming to IS : 4885	Meter	4	4125.00		
4.09	22.198	Providing M.S. foot rests including fixing in manholes with 20x20x1 O cm cement concrete blocks 1 :3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :					
	22.198.2	With 20 mm diameter round bar	Each	34	207.14		
		Total of Sub Head-4					
5.0		PUMP AND EQUIPMENTS					
5.01	NS-21	Water Supply distribution system over terrace.					
	a)	Fixed Speed hydropneumatic system mounted on a common baseplate 150 mm dia pressure gauge, G.M.Gauge, G.M. isolation cock and cement concrete foundation with plaster					

	b)	Supply, Installation, Testing. & Commissioning of single/ multi stage, horizontal / vertical in-line pumps with head and base in cast iron, pump shaft and impeller in stainless steel AISI 304, mechanical seal coupled to a TEFC electric motor suitable for 400/440 volts, 3 phase 50 cycles A.C. supply having IP 55 protection enclosure, 2900 RPM. Each pump should be operate to a curve required by the operating conditions, vibration eliminating pads etc. complete with base and frame, nuts and bolts. All electricals including the power box containing circuit breakers / fuses, Complete with G.I. / M.S. post Galvanised suction header (from water tank to pumps) and delivery Headers, making connections with isolaton valves on suction side and isolaton valves + NRV on delivery side etc., complete.					
		Capacity 7.5 cum/hr (125 lpm) @ 30 m Head (Each pump)					
		Cut in pressure : 2.0 Kg/sq cm.					
		Cut out pressure : 3.0 Kg/sq cm.					
		Shut-off Head for each pump shall be minimum 115% of rated head.					
		Approx. 1.5 KW / 2.0 HP or As Required					
		Quantity : 2 Nos. (One working + One stand By)					
		Make: Grundfos /Wilo / KSB					
	c)	Composite FRP pressure tank (with LDPE single piece jointless inner shell) fitted with precharged interchangeable bladder made of EPU suitable for direct contact with drinking water with base and inlet / outlet nozzle etc., nozzle with air/gas charging valve at top, safety valve, pressure gauge etc., The vessel shall be designed for operating pressure 3.0 kg/sq cm, test pressure 4.5 kg/sq cm. Capacity: 60 Ltrs. or as per manufacturer's recommendations.					
		Make: Pentair / Structural /KSB					
	d)	Power box equipped with fuses, isolators, circuit breakers, cable, wiring, earthing as required. Contractor shall include all items for smooth running of system. Incoming power to this panel shall be provided by others from main feeder.					
		Quantity 1 No					
		Fixed Speed Hydropneumatic System	Set	1	251111.02		
		Total of Sub Head-5					

ELECTRICAL WORKS FOR VC RESIDENCE							
S. No.	HSR 2021/NS	DESCRIPTION OF ITEM	UNIT	QTY	ESTIMATED RATE WITHOUT GST (INR)	QUOTED RATE WITHOUT GST (INR)	AMOUNT OF ITEMS (INR)
1.00		DISTRIBUTION BOARDS (HSR Items)					
1.01	23.22.4	Supply and erection of double door sheet steel enclosure distribution board suitable for MCBS and ELCBS etc. recessed in wall including bonding to earth with all labour and material required to complete the job in all respect up to the entire satisfaction of the Engineer-in-Charge of the work.					
i	23.22.4.3	SPN DB Double Door 12 way (2 incoming and 10 outgoing)	Each	2	1,705.36		
ii	23.22.4.4	SPN DB Double Door 16 way (2 incoming and 14 outgoing)	Each	3	2,079.46		
i	23.22.4.7	TPN DB Horizontal type Double Door 8 way (8 incoming 3phase*8 outgoing)	Each	5	3,957.14		
iv	23.22.4.8	TPN DB Horizontal type Double Door 12 way (8 incoming 3phase*12 outgoing)	Each	2	5754.46		
1.02	23.22.5	Supply and erection of miniature circuit Breaker 240/415 V in the existing distribution board including making necessary connections:-					
i	23.22.5.1	6 amp. to 32 amp Single Pole	Each	182	144.64		
ii	23.22.5.3	6 amp. to 32 amp Double POLE	Each	5	425.89		
iii	23.22.5.8	40 amp to 63 amp. MCB's FOUR POLE	Each	7	1291.07		
1.03	23.22.6	Supply and erection double pole/Four pole Residual (RCCB/ELCB) on 240/415V, 5Hz. AC supply installed in existing sheet steel enclosures including making necessary connections and bonding to earth with all labour and material required to complete the job in all respect					
i	23.22.6.1	DP RCCB 30ma sensitivity , 25 A	Each	2	1,477.68		
ii	23.22.6.2	DP RCCB 30ma sensitivity , 40 A	Each	3	1,669.64		
iii	23.22.6.3	DP RCCB 30ma sensitivity , 63 A	Each	21	2,075.00		
		SUB TOTAL- (1)					
2.0		CIRCUIT CUM POINT WIRING (HSR ITEMS)					
2.01	23.4.1	Wiring for Light/Fan/call bell point with modular type switch/socket and GI box, Modular type face plate etc in 1.5 sqmm FRLS PVC insulated copper conductor cable in 1.6 mm thick PVC conduit pipe.					

	23.4.1.1	Group A	Point	130	519.64		
2.02	23.4.3	Wiring for Light/Fan/call bell point in 1.5 sqmm FRLS PVC insulated copper conductor cable in 1.6 mm thick PVC conduit pipe, without separate control switch					
	23.4.3.1	Group A	Point	70	225.00		
2.03	23.4.4	Wiring in PVC conduit system for 3-pin 5amp. Plug point by using 2 no 1.5 sqmm FRLS copper wire and 1 no 1.5 Sqmm FRLS copper wire , including providing 1 no 5/6 Amp 3/5 pin Modular type socket and 1 no 5/6 Amp Modular type switch required GI Box ,modular face plate etc complete as required					
	23.4.4.1	Group A	Each	50	725.00		
2.04	23.4.5	Wiring in PVC conduit system for 3-pin 15amp. Plug point by using 2 no 4 sqmm FRLS copper wire and 1 no 4 Sqmm FRLS copper wire for earthling , including providing 1 no 15/16 Amp 3/6 pin Modular socket and 1 no 15/16 Amp Modular switch required GI Box , modular face plate etc complete as required					
	23.4.5.1	Group A	Each	23	999.11		
2.05	23.3.6	Wiring main and sub mains in two single core for phase and neutral wire and one single core for earth wire PVC insulated Copper conductor cable 1100 Volts grade in PVC Conduit etc as required.					
i.	23.3.6.9	3 run of Size 1.50 Sqmm(1/1.40mm)	Mtr.	200	189.29		
ii.	23.3.6.10	3 run of Size 2.50 Sqmm(1.1.80mm)	Mtr.	600	271.43		
iii	23.3.6.8	2 run of Size 4 Sqmm(1/2.24mm)	Mtr.	750	258.93		
iii	23.3.6.3	1 run of Size 4 Sqmm(1/2.24mm)	Mtr.	750	143.75		
iv	23.3.6.4	1 run of Size 6 Sqmm(1/2.80mm)	Mtr.	600	172.32		
v	23.3.6.5	1 run of Size 10 Sqmm(1/3.50 mm)	Mtr.	200	345.54		
2.06	23.7.6	Supply and erection of PVC CONDUIT ISI marked (Medium) recessed in walVceiling etc. including the cost of PVC bends, inspection boxes, iron hooks and cement concrete etc. complete in all respect up to the entire satisfaction of Engineer-in-Charge of work.					
i	23.7.6.1	PVC pipe of 20 mm dia.	Mtr.	200	25.89		
ii	23.7.6.2	PVC pipe of 25 mm dia.	Mtr.	200	32.14		

iii	23.7.6.3	PVC pipe of 32 mm dia.	Mtr.	50	44.64		
iv	23.7.6.4	PVC pipe of 40 mm dia.	Mtr.	50	57.14		
2.07	23.8.11	Providing and fixing modular type accessories of approved make in existing box including fixing and making necessary connections, complete in all respect.					
i	23.8.11.6	Bell Push	Each	2	76.79		
ii	23.8.11.7	Step type Fan Regulator 2 modules 300 watt	Each	29	257.14		
2.08	23.8.4	Supply and erection of 10.5 cm dia M.S.Fan box including 8 mm dia 30 cm long M.S. Road made into suitable suspension hook and erected in R.C.C. slab for the erection of fan complete with all labour and material required to complete the job.	Each	29	94.64		
		SUB TOTAL- (2)					
3.0		FIXING OF LIGHT FIXTURE & FAN (HSR Items)					
3.01	23.20	Fixing of LED Tube light/ 2*2 ft square panel fitting directly on wall /ceiling or false ceiling including making connections etc as required	Each	137	66.96		
3.02	23.21	Fixing of LED Down lighter 7 to 28 Watt on ceiling or in false ceiling including cutting/making hole in ceiling including making connections etc as required	Each	17	48.21		
3.03	23.9	Erection of exhaust fan in existing opening ,complete with necessary earthing of fan including carriage from PWD store to the site of work.	Each	15	108.93		
3.04	23.11	Making suitable hole in the wall suitable for exhaust fan up to 450 mm sweep including finishing the same and fixing of Stainless steel wire mesh 2 mm thick having about 50 meshes per inch at exhaust side complete as required	Each	15	381.25		
		SUB TOTAL - (3)					
4.00		DATA AND TELEPHONE NETWORK					

4.01	23.23.10	Supplying and drawing of 1 no UTP 4 pair CAT Sa LAN Cable in the existing surface/recess MS/PVC conduit as required	Metre	100	43.75		
4.02	23.8.10	Providing and fixing GI concealed sheet metal boxes with inner and outer face plate including concealing the box in wall and fixing in position with inner plate and face plate with all labour and material required for the job complete in all respects.					
	23.8.10.1	1 & 2 Modules including combined plate for Telephone and data	Each	14	92.86		
4.03	23.8.11	Providing and fixing modular type accessories of approved make in existing box including fixing and making necessary connections, complete in all respect.					
i	23.8.11.8	Telephone Socket outlet modular type	Each	2	75.00		
ii	23.8.11.9	TV Socket outlet modular type	Each	10	75.00		
iii	23.8.11.11	RJ 45 Computer DATA socket outlet for CAT 6 or CAT6e cable Modular type	Each	2	303.57		
4.04	23.23.8	Supply and laying of multicore telephone cable conductor size 0.51 mm bright annealed copper conductor PVC insulated and sealed in existing pipe/channel and making necessary connection complete in all respect up to the entire satisfaction of the Engineer-in charge of the work.					
	23.23.8.1	2 pair telephone wire	Metre	40	7.14		
		SUB TOTAL - (4)					
5.00		HT & LT CABLE					
5.01	24.14	PROVIDING & ERECTION/ LAYING OF PVC/ XLPE insulated underground aluminium conductor underground cable on surface/existing cable tray complete in all respect with necessary connection upto the entire satisfaction of the Engineer-in-charge of the work.					
	24.14.32	25 Sq mm 4 Core (Arm.)	Metre	150	225.89		
5.02	24.2.7	Supply and erection of suitable compression type brass cable glands for underground Cable :-					
	24.2.7.3	25 sqmm to 50 sqmm Cable 2 to 4 Core	Each	2	76.79		

5.03	24.2.8	Supply and erection of aluminium lugs heavy duty including crimping etc. up to the entire satisfaction of the Engineer-in-charge of the work .					
	24.2.8.5	25sqmm	Each	8	9.82		
5.04	24.2.2	Laying of underground cable 0. 75 metre below ground level covered with sand and bricks including excavation and refilling of trenches.:-					
	24.2.2.2	16 Sq mm to 35 sqmm 2 to 4 Core	Metre	120	160.71		
5.05	24.2.5	Laying and fixing of cable on surface/ cable tray etc as required:-.					
	24.2.5.2	16 Sq mm to 35 sqmm 2 to 4 Core	Metre	20	20.54		
5.06	25.5.2	S/E mark double walled corrugated (DWC) HOPE, pipe 10 Kg/Cm2 ,laid 0.75 Metre below ground level including digging and refilling of earth including cost of suitable size socket/coupler for HOPE pipe including the cost of labour and material required to complete the job in all respect up to the entire satisfaction of Engineer in charge of the work.					
	25.5.2.3	DWC/HDPE pipe 63/50 mm outer dialinner dia	Mtr	10	124.11		
		SUB TOTAL-5					
6.00		EARTHING AND MISCELLANEOUS ITEMS. (HSR Items)					
6.01	24.1.1	Earthing with GL earth pipe 4.5 m long and 40 mm dia with masonry enclosures on the top etc. (but without charcoal or coke and salt) as required.	Each	2	2,720.54		
6.02	24.1.2	Extra for using salt and char coal/coke for pipe earth electrode as required.	Each	2	651.79		
6.03	24.1.3	Earthing with G.I. earth plate 600 mmx 600 mm x 6 mm thick including accessories and providing masonry enclosures with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) complete as required.	Each	4	3,367.86		
6.04	24.1.4	Earthing with tinned copper earth plate 600mmx600mmx3mm thick including accessories and providing masonry enclosures with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) etc. complete as required.	Each	2	8,274.11		

6.05	24.1.5	Extra for charcoal or coke and salt for G. I. plate or copper plate earth electrode.	Each	6	800.89		
6.06	24.1.10	Providing and fixing 25 mm x 5mm copper strip on surface or in recess for connections etc. as required with all labour and material.	Metre	20	730.36		
6.07	24.1.13	Providing and fixing 4.00 mm dia G1. Wire on surface or in recess for loop earthing as required.	Metre	50	21.43		
		SUB TOTAL -(6)					
ELECTRICAL NON SCHEDULE ITEMS							
7.00		DISTRIBUTION BOARDS					
7.01	NS-1	Supplying & fixing of single pole blanking plate in the existing MCB DB complete etc. as required	Each	10	11.02		
		SUB TOTAL-(7)					
8.00		POINT WIRING					
8.01	NS-2	Supply and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 25 A modular socket outlet and 25A modular SP MCB,"C" curve including connections, painting etc. as required.	Each	9	616.10		
8.02	NS-3	Supplying and fixing brass batten/ angle holder including connection etc. as required.	Each	20	111.02		
8.03	NS-4	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	2	1,373.73		
8.04	NS-5	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 amps, 240 volts, "C" curve, DP, MCB complete with connections, testing and commissioning etc. as required.	Each	2	990.68		
8.05	NS-6	Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32 amps, 415 volts, "C" curve, TP, MCB complete with connections, testing and commissioning etc. as required.	Each	1	1,349.15		
		SUB TOTAL-(8)					
9.00		SUPPLY OF LIGHT FIXTURE AND FANS					

9.01	NS-7	Supply of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS : 374- 2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	Each	29	2,525.42		
9.02	NS-8	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (up to 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.	Each	29	287.29		
9.03	NS-9	LIGHT FIXTURE					
	i	Supply of 18W Surface Mounted Round Led Downlighter delivering minimum system lumen of 1800 lm & the luminaire shall be with system efficacy ≥ 100 lm / W. Housing Pressure Die Cast Aluminium heat sink, IP40 , Optics: High Transmittivity Plastic Diffuser. The operating CCT shall be 5700K with CRI of ≥ 80 . The luminaire shall be BIS Registered with electronic driver with input voltage range of 100 to 265V , THD $\leq 10\%$ & PF ≥ 0.95 , 50,000 Hrs LED Life with L70 Criteria. Cut out dia is 145mm and height 39mm with +/- 2mm tolerance. The LED Driver shall be easily available in India for repair and service. The LED shall be SMD type.The luminaire shall be with following certifications: LM79 & LM80 issued by LED manufacturer along with Photo Biological Safety Standard. (Eq. to Havells Cat. Ref. INTEGRANXTRDDLRSD18WLED857S)	Each	160	1,161.02		

	ii	Supply of 4ft Linear Batten LED surface mounted luminaire delivering an initial system lumen of 4400 lumens & the luminaire shall be with system efficacy ≥ 110 lm / W. The luminaire Housing shall be made of extruded Aluminium & the diffuser shall be of polycarbonate. The operating CCT shall be 6500K with CRI of ≥ 80 . The luminaire shall be BIS Registered with electronic driver with input voltage range of 160 to 270V , THD $\leq 10\%$ & PF ≥ 0.95 , 50,000 Hrs LED Life with L70 Criteria, IP20. The LED Driver shall be easily available in India for repair and service. Luminaire shall have minimum surge protection of 3KV.The luminaire shall be with following certifications: LM79 & LM80 issued by LED manufacture along with Photo Biological Safety Standard. (Eq. to Havells Cat Ref STOUTPLUS1200BS40WLED840SPCWH))	Each	2	2,322.03		
	iii	Supply of 2ft Linear LED luminaire delivering an initial system lumen of 1000 lumens & the luminaire shall be with system efficacy ≥ 100 lm / W. The luminaire Housing shall be made of extruded Polycarbonate & the diffuser shall be of polycarbonate. The operating CCT shall be 6500K with CRI of ≥ 80 . The luminaire shall be BIS Registered with electronic driver with input voltage range of 150 to 270V , THD $\leq 20\%$ & PF ≥ 0.9 , 50,000 Hrs LED Life with L70 Criteria, IP20. The LED Driver shall be easily available in India for repair and service. Luminaire shall have minimum surge protection of 2.5 KV.The luminaire shall be with following certifications: LM79 & LM80 issued by LED manufacture along with Photo Biological Safety Standard. (Eq. to Havells Cat Ref LUMILINEPLUSNEOBS10WLED865SPCSSINDS)	Each	11	338.98		
	iv	Supply of 10W Wall mounted LED Bulkhead Light delivering minimum system lumen of 1000 lm & the luminaire shall be with system efficacy ≥ 100 lm / W. Housing & Rim is Pressure Die Cast Aluminium, powder coated white , IP65, IK08, Optics: Polycarbonate Opal Diffuser. The operating CCT shall be 5700K with CRI of ≥ 80 . The luminaire shall be BIS Registered with electronic driver with input voltage range of 140 to 280V , THD $\leq 10\%$ & PF ≥ 0.95 , 50,000 Hrs LED Life with L70 Criteria. Shall have minimum surge protection of 2.5KV. The LED Driver shall be easily available in India for repair and service. The LED shall be SMD type.The luminaire shall be with following certifications: LM79 & LM80 issued by LED manufacturer along with Photo Biological Safety Standard. (Eq. to Havells Cat. Ref. RUGBYGENXFTS10WLED865SSYMBOPC)	Each	4	889.83		

9.04	NS-10	Exhaust fan of 230mm sweep, 1400RPM, with 450 CFM free air delivery, AC 230V/415V , 50 Hz, single phase / three phase complete with all necessary accessories for completing installation as per specification.	Each	15	1,440.68		
		SUB TOTAL-(9)					
10.00		DATA AND TELEPHONE NETWORK					
		SECTION - I- STRUCTURED CABLING SYSTEM PASSIVE					
10.01	NS-11	Supplying & Fixing of Floor Standing Network Rack - 12U complete in all respect.	Each	1	14127.97		
10.02	NS-12	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	Metre	100	39.83		
		SUB TOTAL - (10)					
11.00		MAIN LT PANEL AND MAIN DISTRIBUTION BOARD					
	NS-13	MDB LIGHT + POWER (VC RESIDENCE) LOCATED IN GROUND FLOOR					
		INCOMER :					
		1 no. 100A, 415V, Ics=35kA, 4P MCCB with thermal magnetic trip unit.					
		1 no. Digital multifunction meter (V+A+Hz) with a set of cast resin CTs 100/5A and communication port.					
		1 set of Phase indicating lamp with MCB					
		1 no. TPN surge protection device of Class 1 & 2.					
		BUS BARS:					
		200A TPN bus bars of aluminium alloy.					
		OUT GOING:					
		8 nos. 63A, 415V, 4P MCB of 10kA.					
		3 nos. 32A, 230V, DP MCB of 10kA.					
		AMF LOGIC FOR 1 No. 25 KVA DG Set part of the MDB LIGHT + LIFT.					
		Supply fixing testing and commissioning of Auto Main Failure including auto bypass panel for the 25 KVA DG set as per specification and requirement.					

		Auto/Manual/Test/Off selector switch					
		Energy analyzer unit to indicate current voltage frequency power factor and KWH					
		Fuse for instruments					
		Battery charger complete with transformer/rectifier, D.C. voltmeter and ammeter, selector switch for trickle, off and boost and current adjustment.					
		Mains supply failure monitor					
		Supply failure timer					
		Restoration timer					
		Control unit with three impulse automatic engine start/stop and failure to start lockout.					
		Impulse counter with locking and reset facility.					
		ON/OFF/Control circuit switch with indicator					
		Audio/Video annunciation for					
		High water temperature					
		Low lubricating oil pressures					
		Engine over speed					
		Engine fails to start					
		The above panel shall be complete as per specification and Single line diagram.	Set	1	2,05,079.66		
		SUB TOTAL-(11)					
12.00		EARTHING AND MISCELLANEOUS ITEMS					
12.01	NS-14	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Metre	20	122.03		
12.02	NS-15	Providing and fixing 25mm x 5mm GI Strip on surface or in recess for connections etc. as required.	Metre	10	206.78		
		SUB TOTAL-(12)					