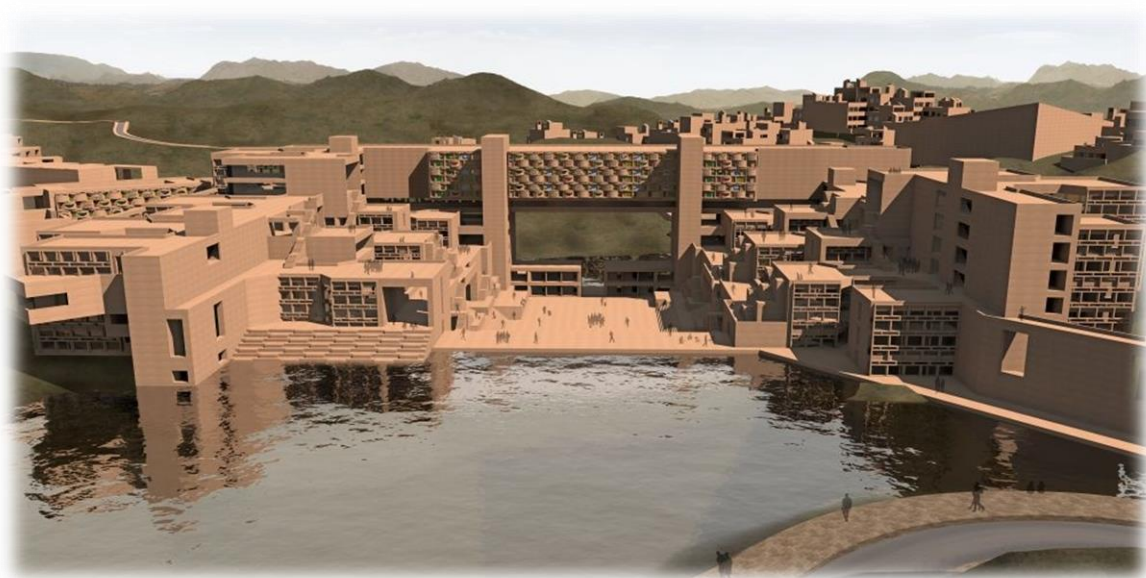


**TENDER FOR HORTICULTURE & LANDSCAPING WORK
AT THE CAMPUS
FOR
INDIAN INSTITUTE OF MANAGEMENT UDAIPUR,
AT VILLAGE BALICHA, UDAIPUR.**



NOTICE INVITING TENDER

INDIAN INSTITUTE OF MANAGEMENT UDAIPUR

Permanent Campus, Village Balicha, Udaipur, Rajasthan – 313001.

Email: project.office@iimu.ac.in, Website: www.iimu.ac.in, Tel +91-294-2477142

TENDER FOR HORTICULTURE & LANDSCAPING WORK

AT THE CAMPUS

FOR

INDIAN INSTITUTE OF MANAGEMENT UDAIPUR,

AT VILLAGE BALICHA, UDAIPUR.



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Every care has been taken while preparing this document to cover all necessary information, matters, specifications, general conditions, special conditions & provisions for smooth and complete execution of works. However, in case of any omission in the tender/ contract document, the most recent version (as on 31st Jun 2018) of general conditions of contract for CPWD Works, 2014 shall be the reference manual.

Summary of Scope of work

This tender is invited for the **Horticulture and landscaping work at the Permanent Campus of IIM Udaipur.**

Site is located along the Ahmedabad Udaipur National Highway (NH) 8 and is well connected with the city of Udaipur. Total area of the site is approximately 300 acres ("Site").

The proposed campus is planned to be developed on a hilly terrain. Unlike the hilly terrains of the northeastern part of the country, **IIMU** site is located in the arid region where availability of water is scarce.

Entire campus is planned to be constructed in two phases. The first phase for which this tender is invited will be of approximately 88,500sqmt of built up area. The Faculty Housing is complete load bearing construction done with Coursed Random rubble Masonry while the Academic Blocks are done in RCC Framed structure. **For Horticulture and landscaping work includes work for Academic Block Courtyards, main plaza and immediate surroundings of Permanent Campus of IIM Udaipur.**

The Scope of work for the tender shall include but not limited to the following:

- To mark all drawings on site and obtain approval, bring discrepancies to notice of EIC (no separate payment to be made)
- To obtain approval for samples of plants, garden soil, cow dung manure, coir textile, masonry for stone bunds from EIC
- To establish site nursery and procure plants from the list provided (no separate payment to be made)
- To manage nursery and acclimatize plants for at least 15 days before plantation (no separate payment to be made)
- To clear the approved sites of all debris and dirt
- To execute earthwork and soil stabilization works geotextile, stabilized mounds as per drawings and specifications.
- To prepare planting pits and obtain approval from EIC
- To execute planting works in approved pits, using approved materials and plants that have survived the acclimatization in a healthy manner without any stress or disease
- Planting areas - mass plantation, filler plantation, display plantation, buffer plantation, feature plantation
- Any other work that shall be required to complete the above mentioned work.

DEVELOPMENT OF PERMANENT CAMPUS OF IIM UDAIPUR

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SECTION 1
TECHNICAL PART

DEVELOPMENT OF PERMANENT CAMPUS OF IIM UDAIPUR

INFORMATION & INSTRUCTIONS TO TENDERERS FOR TENDERING

The Director, Indian Institute of Management Udaipur invites Online item rate bids from firms/contractors of repute in two bid system for the following work:

NAME OF WORK: Horticulture and landscaping work at the Permanent Campus of Indian Institute of Management Udaipur, Balicha, Udaipur, Rajasthan.

Estimated Cost	Rs. 328.38 Lacs
Earnest Money	Rs. 6.57 Lacs
Performance Guarantee	5% of Tendered Value.
Security Deposit	2.5% of Tendered Value
Tender Fee	Rs. 5000 (Five Thousand Only)
Time Allowed	18 (Eighteen) months
Date of Uploading Notice Inviting Tender	09/08/2018
Pre-bid Meeting	16/08/ 2018 at 11:30 AM at IIMU
Last Date of Submission of Tender Date & Time	On 30/08/2018 up to 03:30 PM
Date & Time of Opening of Technical Tender (Eligibility) Documents	On 31/08/2018 at 03:30 PM at IIMU

NB: As it is not feasible to upload the drawings files being bigger in size, in e-procurement portal, the drawings can be viewed/downloaded from below link i.e. the tender menu on IIM Udaipur website- <https://www.iimu.ac.in/tender>

General Information:

(1) Pre-bid meeting shall be held with the prospective tenderers in the office of Indian Institute of Management Udaipur, at Permanent Campus, IIM UDAipur, Udaipur Rajasthan at 11:30 AM on 16/08/ 2018.

(2) Tenderers should send all their queries by email, at least three days before tender pre-bid meeting, to project manager on project.office@iimu.ac.in. The tenderers' authorised representatives are advised to attend the pre-tender meeting.

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In response to the queries and clarifications sought by the tenderers, certain modifications/clarification may be issued to all tenderers by the project manager, as may be deemed necessary through an Addendum and will be uploaded on website hosting the tender document. No separate communication in this regard shall be sent to the individual tenderers. Tenderers are advised to periodically check the website hosting the tender for any addendum until 2 days before the date of submission of the tender.

- (3) Technical tender (which essentially covers the eligibility criteria) shall be opened first on due date and time as mentioned above. The time and date of opening of financial tender of tenderer's qualifying the Technical tender shall be communicated to them at a later date.
- (4) Tenderers are advised to ensure that they have submitted all requisite documents as per the list given in the table below.

1	Certificate of financial turnover (Form A)
2	Bank solvency certificate (Form B)
3	Certificates of Works Experience (Form C, D & E).
4	Structure & Organization (Form F).
5	Details of Technical & Administrative Personnel (Form G).
6	Details of Construction Equipments (Form H).
7	Affidavit for “no back to back award of Work” (Form I)
8	Self evaluated marking statement of Eligibility for Short listing of Tenderers. (Form J).
9	Affidavit declaring site visit (Form K)
10	List of similar past Works and performance on such works.

NOTICE INVITING TENDER

1. Item rate tenders are invited by the Indian Institute of Management Udaipur (IIMU/Owner) from the eligible contractors in Two-bid system for the development of its permanent campus at the Site i.e., Balicha, Udaipur, Rajasthan.
2. Name of the Work: Horticulture and landscaping work at the Permanent Campus of Indian Institute of Management Udaipur, Balicha, Udaipur, Rajasthan

(i) The estimated cost of Work is **Rs. 32837800/- (Rupees Three crore Twenty eight lac Thirty seven thousand Eight hundred only/-)**.

(ii) Intending bidders is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:-

1. **Three similar** works each costing not less than **Rs. 131.35 Lacs (Rupees One hundred thirty one lacs Thirty five thousand only)** or completed **two similar works** each costing not less than **Rs. 197.00 Lacs (Rupees One hundred ninety seven lacs only)** or completed **one similar work** costing not less than **Rs. 262.70 Lacs (Rupees Two hundred sixty two lacs Seventy thousand only)** during the last seven (7) years ending previous day of the last day of submission of Tender. For this purpose cost of work shall mean gross value of the completed work. This should be certified by an officer not below the rank of Executive Engineer/Project Manager or equivalent.

For the purpose of this clause, "similar work" shall mean **"Horticulture and landscaping work in any type of single project with a spread of minimum 50 acres of site area done in India"**.

2. The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to the previous day of the last day of submission of the Tender.
3. The bidder should have had **average annual financial turnover (gross) of Rs. 164.19 Lacs (Rupees One hundred sixty four lacs Nineteen thousand only)** of Similar works during the immediate last five consecutive financial years balance sheets, ending **31st March 2018**, duly audited by Chartered Accountant. Year in which no turnover is shown would also be considered for working out the average.
4. The bidder **should not have incurred any loss** (Profit after tax should be positive) in more than **two (2) years** during available last Five consecutive financial

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years balance sheets, ending **31st March 2018**, duly certified and audited by the Chartered Accountant.

5. The bidder shall furnish a **solvency certificate** of value not less than **Rs. 131.35 Lacs (Rupees One hundred thirty one lacs Thirty five thousand only)** certified by his bankers. Such certificate shall not be of a date, which is more than six months prior to the date of submission of tender.
 6. The bidder shall have sufficient number of technical and administrative employees for proper execution of the Contract. The bidder shall have to submit a list of these employees stating clearly how these would be involved in this work within 15 days of award of work.
- (iii) Intending bidders are advised to ensure that they meet the minimum eligibility criteria as per the detailed terms and evaluation parameters enumerated in this document before they submit their tender documents.
3. An agreement shall be executed by and between the **IIMU** and the successful tenderer for the **"Horticulture and landscaping work at the Permanent Campus of Indian Institute of Management Udaipur, Balicha, Udaipur, Rajasthan"** in the given format as per the terms and conditions stipulated in the tender documents. The rates shall be quoted by the tenderer as per various terms and conditions of this document, which shall form part of the agreement.
 4. The time allowed for carrying out the Work shall be **18 months** from the date of initiation as defined in Schedule -F or from the first date of handing over of the Site, whichever is later.
 5. The Site shall be handed over to the successful tenderer at the time of award of contract on "as is where is" basis.
 6. The tender documents consisting of drawings, specifications, schedule of quantities of the various classes of work to be done and the set of terms & conditions of contract to be complied with and other necessary documents can be seen on website of **IIMU** at **<http://www.iimu.ac.in/media-room/tender.html>** and also at **www.eprocure.gov.in**
 7. Intending tenderers are advised to obtain valid class-II (or appropriate) digital signature to participate in tendering.
 8. The interested bidders shall upload their e-tenders in **<http://www.eprocure.gov.in>** and also physically submit the hard copies of tenders as per the guidelines given on page no. 15 & 16 of this document at Reception of **IIM Udaipur Office, Balicha,**

DEVELOPMENT OF PERMANENT CAMPUS OF IIM UDAIPUR

Udaipur both within the stipulated time and date as indicated above. The detailed address of the IIM Udaipur Project Office is as follows:

Indian Institute of Management, Udaipur
Balicha, Udaipur
Rajasthan - 313001, India.

9. While submitting the revised tender, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of tender as notified
- I. Earnest Money Deposit (EMD) shall be accepted only in the form of Demand Draft or Pay Order or Banker's Cheque drawn in favor of Director, Indian Institute of Management, Udaipur from any nationalized bank. The intending tenderer has to scan and upload all the details such as Banker's name, Demand Draft/Pay Order/ Banker's Cheque/Bank Guarantee number, amount and date to the e-Tendering website within the period of tender submission and original should be deposited at project office of IIMU. Alternatively, a part of the EMD is acceptable in the form of bank guarantee. In such case, Rs. 657000/- (Rupees Six lacs Fifty Seven thousand Only/-) of the EMD shall have to be deposited in the form of Demand Draft or Pay order or Banker's Cheque drawn in favor of Indian Institute of Management, Udaipur, and balance in the form of Bank Guarantee of any nationalized bank. The amount of the EMD can be paid by multiple Demand Draft / Pay Order / Banker's Cheque / along with Bank Guarantee of any nationalized bank. The bank guarantee shall be in the format as prescribed in this document.
- II. Interested tenderers who wish to participate in the tender shall pay Rs. 5,000/ (Rupees Five Thousand only) as Tender Processing Fee drawn in favor of Director, Indian Institute Of Management, Udaipur in the form of Demand Draft/Pay order or Banker's Cheque of any nationalized bank, a copy of which shall have to be scanned and uploaded to the e-Tendering website before tender submission

The tender shall be accompanied with the following documents:

- a. Demand Draft or Pay Order or Banker's Cheque and Bank Guarantee against the EMD and the Tender Processing Fee shall be placed in a sealed Envelope 1 superscripted as "Earnest Money and Cost of Tender Processing Fee" with name of Work and due date of opening of the tender also mentioned thereon.
- b. Copy of certificate of work experience and other documents as specified shall be scanned and uploaded to the e-Tendering website within the period of tender

submission and certified copy of each shall be deposited in a **sealed Envelope 2** marked as "**Eligibility Documents**" within the period of tender submission.

- c. Bill of quantities(in duplicate) and other relevant commercial information(tender) duly filled and compiled with rates, amounts, totals and signed by authorized signatory shall be placed separately in a **sealed Envelope 3**. Envelope 3 shall be super scribed as "Financial Bid" and opened only after tenderer's eligibility to participate in the tender is successfully established and accepted by **IIMU**.
 - d. All the three envelopes shall be placed in **large sealed envelope** marked as "Technical and Financial Tender" with due mention of Name of work, date and time of opening of tender. The large sealed envelope shall be submitted in the project office of **IIMU** up to **03:30 PM on 30/08/2018**. The Technical and financial tender documents submitted shall be opened at **03.30 PM on 31/08/2018**. The large sealed envelope shall be addressed to the **Director, Indian Institute of Management, Udaipur**.
 - e. Technical and financial tender documents submitted by intending tenderers shall be opened only of those tenderers, whose Earnest Money Deposit and Tender Processing Fee and other documents placed in the Envelope 1 are found in order.
 - f. Opening of Tender shall be in the following sequence:
 - I. EMD and Tender Processing Fee of which hard copies are placed in Envelope 1;
 - II. Eligibility documents of which hard copies are placed in Envelope 2;
 - III. Technical and financial bid of the tender of which hard copies are placed in Envelope 3, to be open only for the tenderers fulfilling necessary eligibility criteria per this tender document.
10. The tender submitted shall become invalid and e-Tender Processing Fee shall be forfeited if:
- (i) The tenderers are found ineligible; or
 - (ii) The tenderers fail to upload all the documents (Including GST Registration/ VAT Registration/ Sales Tax Registration) as stipulated in this tender document.
 - (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of e-Tender and hard copies as submitted physically in the office of the tender opening authority.
 - (iv) The lowest bidder does not deposit physical EMD within a week of opening of bid.

(v) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender of any section/sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer

11. The contractor whose bid is accepted will be required to furnish performance guarantee of 5% (Five Percent) of the tender amount within the period specified in Schedule F. This guarantee shall be in the form of Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with tender shall be returned after receiving the aforesaid performance guarantee.

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

12. Intending tenderers must inspect and examine the Site and its surroundings and satisfy themselves before submitting their tenders as to the form and nature of the Site, the means of access to the Site, the accommodation as may be required and in general, shall obtain all necessary information as to the risks involved, contingencies and other circumstances which may have a bearing or influence or affect the decision of submission of tender. A bidder shall be deemed to have full knowledge of the Site whether or not an inspection has been undertaken by the bidder or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed in the amount quoted in the tender. The bidder shall be responsible for arranging and maintaining cost of 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 this document and/or the agreement and/or any other letter, circular, notification issued or document released by IIMU. Submission of a tender by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the Work to be executed and of conditions and local conditions and other factors having a bearing on the execution of the Work. Bidder shall submit the Affidavit for Site Visit in the form as prescribed in FORM "L".
13. Owner is not bound to accept the lowest or any other tender and reserves to itself the right to reject any or all the tenders received without assigning any reason thereof. All tenders in which any of the prescribed conditions are not fulfilled or any condition

including that of conditional rebate is put forth by the tenderer shall be rejected summarily. Tenders subject to any conditions proposed by the tenderer shall not be accepted and shall be liable to be rejected.

14. Canvassing either directly or indirectly, in connection with tender is strictly prohibited and the tenders submitted by the tenderers who resort to canvassing shall be liable to be rejected.
15. Owner reserves the right of accepting the whole or any part of the tender and the tenderers shall be bound to perform the same at the quoted rate.
16. The tenderer shall intimate the names of persons who are or were working in any capacity with the tenderer or are subsequently employed by the tenderer and who are or have been an officer in IIMU.
17. The tender for the Work shall remain open for acceptance for a period of 60 (Sixty) days from the date of opening of Technical tender. In case any tenderer withdraws its tender before the end of Sixty days or issue of letter of acceptance, whichever is earlier, or makes such modifications in the terms and conditions of the tender which are not acceptable to the Owner, then the Owner shall, without prejudice to any other right or remedy available under the contract or law, be at liberty to forfeit 50% of the EMD. Further, such tenderer shall be barred from participating in the re-tendering process of the Work.
18. This notice-inviting Tender shall form a part of the agreement and shall be read and construed accordingly. The successful tenderer, on acceptance of its tender by the Owner, shall within 15 days from the stipulated date of initiation of the Work, execute an agreement consisting of:-

The Notice Inviting Tender, all the documents including additional conditions, specifications, drawings and minutes of pre-tender meeting, addendums and corrigendum, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.

Note: Integrity Agreement will be signed and sealed by the Authorized Representative of bidder as per the format of NIT on bidder's letter head initially. Formal agreement on stamp paper shall be signed between IIMU and the successful bidder only, at the time of Signing of agreement for the work.

INTEGRITY AGREEMENT

On account of the tendering process adopted by IIMU, the tenderer has to sign the entire document physically and the tenderer shall be required to physically submit a set of documents in the office of Director, IIMU. In order to maintain transparency and integrity in the process of awarding contract, it is essential for IIMU and tenderers to agree and abide by certain principles and policies. IIMU and tenderers agree to following :

- (i) IIMU shall remain committed to follow the principles of transparency, equity and competitiveness in public procurement;
- (ii) The Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the tenderer shall sign the Integrity Agreement, which is an integral part of tender/tender documents, failing which the tenderer/tenderer will stand disqualified from the tendering process and the tender of the tenderer shall be liable to be rejected summarily.
- (i) The tenderers agree and acknowledge that the NIT is an invitation to offer made on the condition that the tenderers shall sign an Integrity Agreement in the format as provided for in this document. Such Integrity Agreement shall form an integral part of the tender documents. Any failure on the part of any tenderer to execute the Integrity Agreement shall render such tenderer disqualified from the tendering process. The tendered agree and acknowledge that bidding for the Work as envisaged in this document shall be regarded as an unconditional and absolute acceptance of the condition of executing the Integrity Agreement.
- (ii) The tenderers acknowledge, agree and confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the Integrity Agreement shall be separate and distinct from the main agreement, which shall come into existence once tender is finally accepted by IIMU. The tenderers acknowledge and accept the tenure of the Integrity Agreement, which shall be in the line with Article 1 of the format of Integrity Agreement as prescribed herein.
- (iii) The tenderers acknowledge that in the event of failure to sign and accept the Integrity Agreement, while submitting the tender/tender, IIMU shall have unqualified, absolute and unfettered right to disqualify the tenderer and reject the tender in accordance with terms and conditions of the tender.

In addition to other components of tender document, the Integrity Pact shall also be signed between The Director, IIMU and successful tenderer after acceptance of tender.

To,

.....,

.....,

.....

Sub: NIT for the work for Horticulture and landscaping work at the Permanent campus of IIM Udaipur.

Dear Sir,

It is here by declared that Director on behalf of the IIMU 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 Tenderer will sign the integrity Agreement, which is an integral part of tender/ tender documents, failing which the tenderer/ tenderer will stand disqualified from the tendering process and the tender of the tenderer 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 IIMU.

Yours faithfully

Director, IIMU

INTEGRITY AGREEMENT

To,

Director,

Indian Institute of Management UDAIPUR

Sub: Submission of Tender for Horticulture and landscaping work at Permanent Campus of IIM Udaipur, Balicha, Udaipur, Rajasthan.

Dear Sir,

I/We acknowledge that Director on behalf of the IIMU is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/tender document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that THE MAKING OF THE TENDER 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 is finally accepted by IIMU. 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/tender, IIMU shall have unqualified, absolute and unfettered right to disqualify the tenderer and reject the tender in accordance with terms and conditions of the tender.

Yours faithfully

(Duly authorized signatory of the Tenderer) To be signed by each tenderer and Director, IIMU)

INTEGRITY AGREEMENT

THIS INTEGRITY AGREEMENT is made at on this..... day of2018

BETWEEN

The **Director, IIMU** (hereinafter called "**IIMU**" or "Owner" which expression shall unless repugnant to the context or meaning thereof is deemed to include its successors & permitted assigns) of the FIRST PART:

AND

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

Each of the **IIMU**/Owner and Tenderer/Contractor individually referred to as the "Party" and collectively referred to as the "Parties".

WHEREAS the Owner floated a tender for **Horticulture and landscaping work at the Permanent Campus of IIM Udaipur, Balicha, Udaipur, Rajasthan** ("Tender") and intends to award, under laid down organizational procedure, contract pursuant to issuance of such Tender ("Contract").

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

AND WHEREAS to meet the purpose aforesaid, the Parties have agreed to enter into this Integrity Agreement ("Integrity Pact" or "Pact"), the terms and conditions of which shall also be read as integral part of the tender documents and Agreement between the Parties and shall be construed accordingly.

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 Owner

- 1) The Owner commits itself to endeavor to take all measures necessary to prevent corruption and to observe the following principles:
 - (a) No employee of the Owner, personally or through any of his/her family members, shall in connection with the Tender, or the execution of the Agreement, 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 Owner shall, during the tender process, treat all tenderer(s) with equity and reason. The Owner shall, in particular, before and during the tender process, provide to all tenderer(s) the same information and shall not provide to any tenderer(s) confidential/additional information through which the tenderer(s) could obtain an advantage in relation to the tender process or the execution of Agreement.

(c) The Owner shall endeavor to exclude from the tender process any person, whose conduct in the past has involved any bias of any nature.

2) If the Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal Code (IPC) or Prevention of Corruption Act, 1988 or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Owner shall be at liberty to take appropriate disciplinary action or initiate disciplinary proceedings as per its internal policies and procedures.

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

1) Each Tenderer/Contractor shall be required to (including their respective officers, employees and agents) adhere to the highest ethical standards and shall report to the Owner of any 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 and award of the Contract.

2) The Tenderer(s)/Contractor(s) shall commit themselves to take all measures essential to prevent any act of corruption. The Tenderers/Contractors commit themselves to observe the following principles during their participation in the Tender process and during the execution of the Contract:

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

b) The Tenderer(s)/Contractor(s) shall not enter with other Tenderer(s) any undisclosed agreement or understanding, whether formal or informal for manipulating prices, specifications, certifications, subsidiary contracts, submission or non-submission of tenders or any other actions to restrict competitiveness or to cartelize in the tendering process.

c) The Tenderer(s)/Contractor(s) shall forbear from committing any offence under the Indian Penal Code (IPC) or Prevention of Corruption Act, 1988. The

Tenderer(s)/Contract(s) shall not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Owner as part of the business relationship, plans, technical proposals and business details, including information contained or transmitted electronically or otherwise.

- d) The Tenderer(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Tenderer(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 can submit tender in the process of tender, but not both. In cases where an agent participates in the tender on behalf of one tenderer, such agent shall not be permitted to quote on behalf of any another tenderer along with the first manufacturer in a subsequent/parallel tender for the same item.
- e) The Tenderer(s)/Contractor(s) shall, when presenting tender, disclose any and all payments made, committed to make or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- 3) The Tenderer(s)/Contractor(s) shall not instigate any third person to commit offences mentioned above or be an accessory to such offences.
- 4) The Tenderer(s)/Contractor(s) shall not, directly or through any other person indulge in fraudulent practice including but not limited to 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 interest of the Owner.
- 5) The Tenderer(s)/Contractor(s) shall not, directly or through any other person use coercive practices including but not limited to 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 available to the Owner under law or the Contract or its established policies and procedures, the Owner shall have the following rights in case of breach of this Integrity Pact by the Tenderer(s)/Contractor(s) and the Tenderer/ Contractor accepts and undertakes to respect and uphold the Owner's absolute right:

- 1) If the Tenderer(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 Owner after giving 14 days' notice to the Tenderer/Contractor shall have the powers to disqualify the Tenderer(s)/Contractor(s) from the process of Tender or terminate/determine the Contract, if already executed or exclude the Tenderer/Contractor from future contract award processes. The imposition and duration of the exclusion shall be determined by the severity of transgression and determined by the Owner. Such exclusion may be forever or for a limited period at the sole discretion of the Owner.
- 2) Forfeiture of EMD/Performance Guarantee/Security Deposit: Pursuant to the Owner disqualifying the Tenderer(s) from the Tender process prior to the award of the Contract or terminates/determines the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Owner apart from exercising any legal rights that may have accrued to the Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit rendered by the Tenderer/Contractor.
- 3) Criminal Liability: Pursuant to the Owner obtaining any knowledge of conduct of a Tenderer or Contractor, or of an employee or a representative or an associate of a Tenderer or Contractor which constitutes corruption within the meaning of the Indian Penal Code (IPC) or Prevention of Corruption Act, 1988 or if the Owner has substantive suspicion in this regard, the Owner shall forthwith inform the same to any law enforcing agencies for further investigation without being obligated to first inform the Tenderer/Contractor of the same.

Article 4: Previous Transgression

- 1) Each Tenderer/Contractor shall declare and confirm that no previous transgressions have occurred in the last five (5) years with any other company in any country confirming to the anti-corruption approach or with the Central Government or any State Government or any other Central/State Public Sector Enterprises in India that could justify its exclusion from the process of Tender.
- 2) Upon any incorrect, false, misleading statement made or submitted by the Tenderer in terms of 4(1) above, shall render the Tenderer disqualified from the process of Tender or entitling the Owner to take any action for imposing a ban on any business dealings/holiday listing of the Tenderer/Contractor at the sole discretion of the Owner.
- 3) Upon a confirmation made by the Tenderer/Contractor, to the satisfaction of the Owner, proving that the damage caused has been resorted / recouped and a suitable corruption prevention system has been installed to the satisfaction of the Owner, the exclusion may be revoked prematurely by the Owner at its sole discretion.

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

- 1) The Tenderer(s)/Contractor(s) undertake(s) to demand from all sub-contractors a commitment in conformity with this Integrity Pact. The Tenderer/Contractor shall be responsible for any violation(s) of this Integrity Pact by any of its subcontractors/sub-vendors.
- 2) The Owner shall enter into such agreements or pacts on identical terms as this Integrity Pact with all Tenderers and Contractors.
- 3) The Owner shall disqualify Tenderers, who fail to submit duly executed Integrity Pact along with the Tender or violate any of the provisions at any stage of the Tender process.

Article 6- Duration of the Pact

This Pact shall become effective on the day the Owner and the Tenderer/Contractor have signed and executed the same. The Integrity Pact shall continue to remain in force for the Contractor till twelve (12) months after the completion of work under the contract or till the continuation of defect liability period, whichever is later. However, the Integrity Pact shall come to an end for unsuccessful tenderers upon award of the Contract to the successful tenderer. If any claim is made/lodged during the time, the same shall be binding and continue to remain valid despite the lapse of this Pact as specified above, unless such Tenderer is discharged by the Owner.

Article 7- Other Provisions

- 1) The Integrity Pact shall be governed by the applicable Indian laws and the place of performance and jurisdiction shall be the place of office of the Owner.
- 2) Any change, amendment, modification or supplement or addendum to the Integrity Pact can only be brought into effect by way of mutual written agreement between the parties to the Integrity Pact.
- 3) If the Contractor is a partnership or a consortium, this Pact shall be executed and signed by all the partners or by one or more partners holding power of attorney executed in favor of such partner or partners by the remaining partners. In case the contractor is a company, the Pact shall be executed and signed by a representative duly authorized by board resolution of such company.
- 4) In case any of the provisions of this Integrity Pact is rendered invalid by law or otherwise, the remaining provisions of the Integrity Pact shall continue to remain valid and binding on the Parties. In such a case, the Parties shall strive to come to an agreement to the original intension envisaged under the Integrity Pact.

- 5) The Parties agree that any dispute or difference arising between the Parties with respect to the terms of this Integrity Pact, any action taken by the Owner in accordance with this Integrity Pact or any 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 available to the Parties under law or contract and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. The Parties agree that this Integrity Pact shall have precedence over the Tender/Contact documents with regard to any of the provisions covered under this Integrity Pact.

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

.....

(For and on behalf of Owner)

.....

(For and on behalf of Tenderer/Contractor)

WITNESSES (Signature, name and address)

1

2

Place:

Dated:

FORM OF BANK GUARANTEE FOR EARNEST MONEY

WHEREAS, contractor..... (Name of contractor) ("Contractor") has submitted his tender dated..... (Date) for construction of..... (Name of work) ("Tender")

KNOW ALL PEOPLE by these presents that We, _____(name of bank) having our registered office at..... ("Bank") are bound unto **Director, IIMU** ("Owner") in the sum of Rs..... (Rs. in words) for which payment well and truly to be made to the Owner, the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank thisday of..... 20....

The present Bank Guarantee shall be governed by the following terms and conditions:

1. If after opening of the Tender, the Contractor withdraws the Tender during the period of validity of Tender (including extended validity of the Tender) as more specifically mentioned in the Notice Inviting Tender; or
2. If the Contractor having been notified of the acceptance of its Tender by the Owner:
 - a. fails or refuses to execute the Agreement in accordance with the instructions of the Owner; or
 - b. fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of the Notice Inviting Tender and instructions given to the Contractor; or
 - c. fails or refuses to start the work, in accordance with the provisions of the Notice Inviting Tender and instructions given to the Contractor; or
 - d. fails or refuses to submit fresh Bank Guarantee of an amount equivalent to this Bank Guarantee against the Security Deposit after award of the Tender;

we undertake to pay to the Owner, without any protest or demur, an amount equal to the amount specified in this Bank Guarantee upon receipt of the first written demand received from the Owner, without the Owner having to substantiate such demand, provided that in such demand the Owner shall clearly indicate such condition or conditions entitling the Owner to claim the amount under the present Bank Guarantee.

This Guarantee shall remain in force up to and including the date_____ (validity period of **120 days** from the last date of receipt of the Tender) after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by the Owner, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE:

SIGNATURE OF THE BANK:

SEAL:

WITNESS:

(SIGNATURE, NAME AND ADDRESS)

DEVELOPMENT OF PERMANENT CAMPUS OF IIM UDAIPUR

(To be executed by and between the Owner and the successful tenderer)

FORMAT OF AGREEMENT

This agreement is executed at _____ (place of execution) on the _____ day of _____, 20__

BETWEEN

_____, which expression shall mean and include its successors and assigns (name and address of the Owner) (“Owner”) of the FIRST PART
AND

(name and address of the successful tenderer) (“Contractor”) of the SECOND PART

The Owner and the Contractor shall be individually referred to as the “Party” and collectively referred to as the “Parties”

Whereas the Owner is desirous of **Horticulture and landscaping work at the Permanent Campus of IIM Udaipur, Balicha, Udaipur, Rajasthan** (“Tender”) for selection of a contractor for constructing the said campus. The Contractor has submitted its bid pursuant to the issuing of the Tender by the Owner. WHEREAS the details of the work proposed to be executed by the Contractor is more particularly specified in the Tender for **Horticulture and landscaping work at the Permanent Campus of IIM Udaipur, Balicha, Udaipur, Rajasthan** (“Works”) and the Owner has accepted the Tender submitted by the Contractor for the execution and completion of the Works and the remedying of any defects therein, at a _____ contract _____ price _____ of Rs.
..... (Rupees _____ (in words))

WHEREAS the Owner has now desirous of laying down the terms and conditions governing the execution of the Works and has therefore, requested the Contractor to execute the present Agreement.

NOW THIS AGREEMENT WITNESSETH as:

DEVELOPMENT OF PERMANENT CAMPUS OF IIM UDAIPUR

1. In this Agreement, words and expressions shall carry the same meanings as are ascribed to them in the Conditions of Contract as more particularly mentioned in the Tender. The Parties agree that the Tender shall form an integral part of this Agreement and shall be read and construed accordingly.

2. In consideration of the payments to be made by the Owner to the Contractor as the consideration for execution of the Works ("Consideration"), the Contractor hereby covenants with the Owner to execute and complete the Works and remedy the defects therein in conformity in all aspects with the provisions of the Tender and this Agreement.

3. The Owner hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and in the remedying the defects wherein the Contract Price or such other sum as may become payable under the provisions of the Tender and this Agreement at the times and in the manner prescribed under the Tender.

4. The following documents shall be deemed to form and be read and construed as part of this Agreement:

- i) Letter of Acceptance;
- ii) Notice to proceed with the Works;
- iii) Contractor's Tender;
- iv) Contract Data;
- v) Conditions of Contract (including Special Conditions of Contract);
- vi) Specifications;
- vii) Drawings;
- viii) Bill of Quantities; and
- ix) Any other documents listed in the Contract Data as forming part of the Contract.

In witness whereof the Parties have caused this Agreement to be executed on the day and year first written above.

The _____ Common _____ Seal _____ of _____

was hereunto affixed in the presence of:

Signed _____ Sealed _____ and _____ Delivered _____ by _____ the _____ said _____

DEVELOPMENT OF PERMANENT CAMPUS OF IIM UDAIPUR

Binding Signature of Owner

Binding Signature of Contractor

in the presence of

Item Rate Tender & Contract for Works

(A) Tender for the work of: - Horticulture and landscaping work at the Permanent Campus of IIM Udaipur, Balicha, Udaipur, Rajasthan.

(i) To be submitted by the tenderers in hard copy in the project office of IIMU, Permanent Campus, Balicha, Rajasthan, Udaipur-313001, Rajasthan up to 03:30 PM on 30/08/2018.

(ii) To be opened in presence of tenderers who may be present at 03:30 PM on 31/08/2018 at the project office of IIMU, Permanent Campus, Balicha, Rajasthan, Udaipur-313001, Rajasthan.

I/We have read and examined the notice inviting tender, bill of quantity, Specifications, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender to execute the work of IIMU as mentioned above and detailed in the schedule of quantities within the time frame specified in the tender documents, and in accordance with the specifications, designs, drawing and instructions/orders of the engineer in charge meeting all the Conditions of Contract with such materials as are provided for In the drawings, technical specifications or the schedule of quantities.

I/We agree to keep the tender open and valid for 60(Sixty) days from the due date of opening of Technical tender and shall not make any modifications in its terms and conditions.

A sum of Rs. 6.57 Lacs is hereby forwarded in the form of a demand draft of a Nationalized Bank and a bank guarantee issued by a Nationalized Bank as earnest money. If I/We, fail to furnish the prescribed performance guarantee within prescribed period and form, I/We agree that IIMU shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that IIMU shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by Owner towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause Deviations/Variations Extent and Pricing of the tender form. Further, I/We agree that in case of forfeiture of Earnest Money & Performance Guarantee as aforesaid. I/We shall be debarred from participating in the re-tendering process of the work.

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back-to-back basis. Further that, if such a violation comes to

DEVELOPMENT OF PERMANENT CAMPUS OF IIM UDAIPUR

the notice of Owner, then I/we shall be liable to legal and penal action as deemed appropriate by the Owner. Also, if such a violation comes to the notice of the Owner before the date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/ Performance Guarantee.

I/We hereby declare that I/we shall treat the Tender Documents, drawings and other records connected with the Work as confidential documents and shall not communicate nor use any information derived there from to any persons other than a person to whom I/we am/are authorized to communicate the same or use the information in any manner prejudicial to the interest of IIMU.

Dated

Signature of Contractor

Witness

Name

Name

.....

Address

Address

.....

Occupation

Telephone

.....

ACCEPTANCE

The above offer is hereby accepted by me on behalf of The Indian Institute of Management Udaipur, Rajasthan. For a sum of Rs. ----- (Rupees -----)

Dated

For & on behalf of IIMU

Signature

Form of Performance Security (Guarantee) Bank Guarantee Bond

In consideration of the IIMU having offered to accept the terms and conditions of the proposed agreement between.....and(hereinafter called "the said Contractor(s)") for the work..... (herein after called "the said agreement") having agreed to production of an irrevocable Bank Guarantee for Rs.(Rupees only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

1. We, (herein after referred to as "the Bank") hereby undertake to pay to the Owner an amount not exceeding Rs. (Rupees..... Only) 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 the Owner stating that the amount claimed as 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 this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rupeesonly)

3. We, the said bank further undertake to pay to the Owner 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 thereunder 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 herein 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 the Owner under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in-Charge on behalf of the Owner certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.

5. We, (indicate the name of the Bank) further agree with the Owner shall have the fullest liberty without our consent and without affecting in any manner our obligation 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 the Owner against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of

any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act of omission on the part of the Owner or any indulgence by the Owner to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of the 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 the Owner in writing.

8. This guarantee shall be valid up tounless extended on demand by the Owner.

Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs.

..... (Rupees) 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 theday offor.....(indicate the name of the Bank)

Brief Particulars of the Work

Indian institute of Management Udaipur, one of the youngest IIMs, aims to set the highest standards not only with quality education but also with its approach in sustainability. The proposed campus of IIMU is planned to be developed on a hilly terrain. Unlike the hilly terrains of the northeast part of the country, IIMU site is located in the arid region where availability of water is scarce and orientation of buildings is of prime importance.

The site is located along the Ahmedabad Udaipur National Highway (NH) 8 and is well connected with the city. The whole campus is planned to be constructed in two phases. The first phase will be of approximately 88500 Sqm of Built up area. The construction is planned to be a combination of Load Bearing Stone Masonry and Framed RCC/Steel structure. The whole campus is divided in Admin and Academic facility, Faculty and Staff housing and hostels with Internal and External Infrastructures and allied services. The Present tender is for **Horticulture and landscaping work at the Permanent Campus of IIM Udaipur, Balicha, Udaipur, Rajasthan.** . For Horticulture and landscaping work includes work for Academic Block Courtyards, main plaza and immediate surroundings of Permanent Campus of IIM Udaipur.

GENERAL GUIDELINES FOR TENDERERS

1. GENERAL:

- 1.1. Letter of transmittal and forms, terms and conditions for deciding eligibility are given in this tender document.
- 1.2. All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. In case no information is to be provided in a particular column, "nil" or "no such case" or "not available" entry should be made in that column. If any particulars/query is not applicable in case of a tenderer, "not applicable" shall be mentioned against such particular/query. The tenderers are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the tender being summarily disqualified and rejected entitling the Owner to forfeit the EMD and Tender Processing Fee without any further notice to the tenderer. Tenders made by telegram or telex and including those received late shall not be entertained and returned unaccepted.
- 1.3. References, information and certificates from the respective owners certifying suitability, technical knowledge or capability of the tenderer should be attested by the first class judicial magistrate or equivalent or Group A Gazetted officer of Central or any State Government.
- 1.4. The tender should be type written. The bidder should sign each page of application.
- 1.5. Over-righting should be avoided. Corrections, if any, should be made by neatly crossing out, initiating, dating and rewriting. Pages of eligibility criteria are numbered. Additional sheets, if any added by the bidder, should also be numbered by him. They should be submitted as a package with signed letter of transmittal.
- 1.6. The tenderer may furnish any additional information, which it thinks is necessary to establish its capabilities to successfully complete the envisaged Work. Tenderers are, however, advised not to furnish any superfluous information. No information shall be entertained after uploading of eligibility criteria document unless it is called for by the Engineer-in-Charge.

It is desirable that the tenderer is not contesting or defending any legal proceeding before a court of law or tribunal or quasi-judicial or administrative authority ("Legal Proceedings"). The tenderer must submit information of all on-going Legal Proceedings and for the past seven (7) years. In the event the tenderer has not been subject to any such Legal Proceedings either in process or in the past seven (7) years, an affidavit to this effect, duly notarized shall be submitted in original.

- 1.7. Any information furnished by the tenderer found to be incorrect either immediately or at a later date, shall render such tenderer liable to be debarred from tendering/taking up of the Work.
- 1.8. The tenderer shall not have been black listed by any State/Central Government Department or Public Sector Undertaking or any autonomous body. The tenderer shall submit a duly notarized affidavit, stating on oath that the tenderer has not been black-listed. Applications received without such affidavit in original shall stand automatically rejected. IIMU shall be entitled to forfeit the EMD and Tender Processing Fee on account of any such rejection

2. DEFINITIONS:

In this document the following words and expressions shall carry the meaning hereby assigned to them:

- 2.1. "Owner/IIMU" shall mean and refer to the Indian Institute of Management;
- 2.2. "Director" shall mean and refer to the Director of IIMU;
- 2.3. "Project Manager" shall mean and refer to the person nominated as Project Manager by IIMU;
- 2.4. "Project Manager" shall mean and refer to the person/Project Management Consultants (PMC) nominated as Project Manager by IIMU and shall report to Engineer in Charge.
- 2.5. "Design Consultants" shall mean and refer to the Consultants appointed by IIMU as Design Consultant.
- 2.6. "Engineer in Charge" shall mean and refer to an authorized representative appointed by IIMU;
- 2.7. "Tenderer" shall mean and refer to an individual, proprietary firm, firm in partnership, limited company (private or public) or corporation but shall not include a joint venture and special purpose vehicle.
- 2.8. "Year" means financial year unless stated otherwise.

- 2.9. "Market Rate" shall be the rate as decided by the Engineer-in-Charge on the basis of the prevailing cost of materials and labour at the site (where the work is being executed) involved in executing that item plus the percentage mentioned in Schedule 'F' to cover, all overheads and profits, provided that no extra overheads and profits shall be payable on the part(s) of work assigned to other agency(s) by the contractor as per terms of contract.

3. METHOD OF APPLICATION:

- 3.1. If the tenderer is an individual, the application for submitting tender shall be signed by such individual above the full type written name and current address.
- 3.2. If the tenderer is a proprietary concern, the application for submitting tender shall be signed by the proprietor above full type written name and the full name of the proprietor firm with its current address.
- 3.3. If the tenderer is a partnership firm, the application for submitting tender shall be signed by all the partners of the partnership firm above their full typewritten names and current address, or, alternatively, by one or more partners holding power of attorney for the firm and/or other partners. A notarized copy of such power of attorney shall be submitted along with the application and it must be disclosed that the firm is duly registered under the **INDIAN PARTNERSHIP ACT 1932**. The application shall also be accompanied with a notarized copy of the partnership deed.
- 3.4. If the tenderer is a limited company or a corporation, the application for submitting tender shall be signed by a duly authorized person holding power of attorney for signing the application accompanied by a copy of the power of attorney. The tenderer shall also furnish a notarized copy of the Memorandum and Articles of Association of the company.

4. FINAL DECISION MAKING AUTHORITY

The **IIMU** reserves the right to accept or reject any tender and to annul the process and reject all tenders at any time without assigning any reason thereof or incurring any liability to the tenderers. Particulars of the work given in Brief are to be considered Provisional. They are liable to change and must be considered only as advance information to assist the Bidders.

5. Deleted

6. SITE VISIT

The tenderer shall visit the Site of Work, at its own cost, and examine the Site and its surroundings to satisfy itself and collect all information that may be considered necessary for proper assessment of the scope of Work enumerated in the this tender document.

7. CRITERIA FOR ELIGIBILITY (TECHNICAL TENDER)

7.1. The eligibility criteria applicable for the tenderers for the present tender in terms of the scope of Work shall be :

7.1.1. The tenderer should have satisfactorily completed **Three similar** works each costing not less than **Rs. 131.35 Lacs (Rupees One hundred thirty one lacs Thirty five thousand only)** or completed **two similar works** each costing not less than **Rs. 197.00 Lacs (Rupees One hundred ninety seven lacs only)** or completed **one similar work** costing not less than **Rs. 262.70 Lacs (Rupees Two hundred sixty two lacs Seventy thousand only)** during the last seven (7) years ending previous day of the last day of submission of Tender; and

For the purpose of this clause, "similar work" shall **"Horticulture and landscaping work in any type of single project with a spread of minimum 50 acres of site area done in India"**.

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to previous day of the last day of submission of the Tender.

7.2. The tenderer should have had **average annual financial turnover** (gross) of **Rs. 164.19 Lacs (Rupees One hundred sixty four lacs Nineteen thousand only)** of similar works during the immediate last five consecutive financial years balance sheets, ending **31st March 2018**, duly audited by Chartered Accountant. Year in which no turnover is shown would also be considered for working out the average.

7.3. The tenderer **should not have incurred any loss** (Profit after tax should be positive) in more than **two (2) years** during available last five consecutive financial years balance sheets, ending **31st March 2018**, duly certified and audited by the Chartered Accountant.

7.4. The tenderer shall furnish a **solvency certificate of value not less than Rs. 131.35 Lacs (Rupees One hundred thirty one lacs Thirty five thousand only)**

certified by his bankers. Such certificate shall not be of a date, which is more than six months prior to the date of submission of tender.

7.5. The tenderer shall have sufficient number of technical and administrative employees for proper execution of the Contract. The tenderer **shall have to** submit a list of these employees stating clearly how these would be involved in this work within **15 days of award of work**.

7.6. A certificate attested by first class judicial magistrate or equivalent or a Group A gazetted officer of Central or any State Government certifying the performance for each work completed by the tenderer in the last seven (7) years and in hand.

7.7. The tenderer shall own construction equipment as per the list required for proper and timely execution of the Work. In case the tenderer does not own such construction equipment's, the tenderer shall submit a letter attested by itself that it shall be able to manage the construction equipment's by hiring and shall also submit the list of firms from whom it proposes to hire. The list shall clearly specify the names of the firms from whom the equipment's would be hired and shall not be an indicative list of firms.

8. Evaluation Criteria for Eligibility (Technical Tender)

8.1. The documents for ascertaining the eligibility submitted by the tenderers shall be evaluated in the following manner:

8.1.1. The criteria for eligibility prescribed in para 7.1 to 7.7 above in respect of experience of similar class of works completed, Tendering Capacity and financial turnover etc. shall be first scrutinized and the tenderer's eligibility for the work shall be determined. Only such tenderers which meet the eligibility criteria specified in para 7.1 to 7.7 above shall be eligible to qualify for evaluation under this section and all other applications shall automatically stand disqualified.

8.1.2. Physical inspection of completed projects of tenderers found eligible in terms of Clause 8.1.1 shall be conducted by an evaluation committee appointed by **IIMU** for evaluating the quality of work. The evaluation committee may visit the site where works have been executed by the tenderers in the past i.e., works pertaining to civil works, plumbing, electrical, firefighting, works. The exact number of the works to be visited shall be decided by **IIMU**.

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- 8.1.3. A committee of experts constituted by IIMU shall undertake further evaluation. The Committee may, at its discretion, call for information from owners of similar works carried out or in progress by tenderers and evaluate the previous completed projects regarding all submission including litigations. The tenderers qualifying the eligibility criteria as set out in Para 7.1 to 7.7 above shall be evaluated for following criteria on the basis of details furnished by such tenderers:

(A)	Financial strength (Form "A" and "B") A Turnover B Solvency	Maximum marks 16 4	20
(B)	Experience in eligible similar nature of Work during last seven years. (Form "C")	Maximum marks	20
(C)	Performance on Works (time Over run) (Form "D")	Maximum marks	20
(D)	Performance on quality of eligible similar works executed (Form "D")	Maximum marks	40
Total			100 Marks

- 8.1.4. The tenderer shall submit a self-certified self-evaluation calculation sheet for evaluation parameters mentioned in Form J.
- 8.1.5. To become eligible for short-listing, the tenderer shall secure at least 50% marks in each criteria A, B, C, & D and 60% marks in aggregate as is mentioned hereunder:
- 8.2. Notwithstanding the fact of having been qualified under Clause 8.1, a tenderer shall be liable to be disqualified in case such tenderer :
- Makes misleading, incorrect or false representation or deliberately suppresses the information in the forms, statements and enclosures required to be submitted as a part of the eligibility criteria document.
 - Has a record of poor performance such as abandoning work, not properly completing the contract, or financial failures / weaknesses etc.

9.FINANCIAL INFORMATION

The bidder shall furnish the Annual Financial Statements for the last five (5) years ending **31st March 2018** in “Form A” and Solvency Certificate in “Form B”.

10. DISCLOSURE OF EXPERIENCE IN SIMILAR WORKS

10.1. The tenderer shall furnish the following:

- a. List of all works of similar nature successfully completed during the preceding seven years in Form C.
- b. List of the projects under execution or awarded in Form D.

10.2. Particulars of completed works and performance of the tenderer duly attested by first class judicial magistrate or equivalent or Group A gazette officer of Central or any State Government shall be furnished separately for each work completed or in progress in Form E.

10.3. Information in Form D shall be complete in all respects and no work shall remain unreported.

11. ORGANISATION INFORMATION

The tenderer shall be required to submit the information in respect of its organization in Forms F & G.

12. LETTER OF TRANSMITTAL

The tenderer shall submit the Letter of Transmittal in the format as prescribed in this document.

13. OPENING OF THE FINANCIAL TENDER

After evaluation of the eligibility documents, a list of short listed tenderers qualified in eligibility criterion shall be prepared. Thereafter, the financial tenders of only the qualified and technically acceptable tenderers shall be opened at the notified time, date and place in the presence of the qualified tenderers or their representatives. The validity of the tenders shall be **60 (Sixty) days** and shall be reckoned from the date of opening of the Technical Tender.

14. AWARD CRITERIA

14.1. The Owner reserves the right, without being liable for any damages or any obligation to inform the tenderer, to:

14.1.1. Amend the scope and value of Work to the tenderer.

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- 14.1.2. Reject any or all of the applications without assigning any reason.
- 14.2. Any effort on the part of the tenderer or his agent to exercise any influence or to pressurize the Owner shall result in rejection of its tender. The Owner clarifies that any kind of canvassing or any act of similar nature is expressly prohibited.

INFORMATION REGARDING ELIGIBILITY CRITERION

LETTER OF TRANSMITTAL

From:

To

The Director

Indian Institute of Management, Udaipur.

Village Balicha, District Udaipur,

Rajasthan

Dear Sir,

Subject: Tender for Horticulture and landscaping work at the Permanent Campus of IIM Udaipur, Balicha, Udaipur, Rajasthan.

Having examined the details given in Press –Notice and Technical Tender document for the above work in the subject hereinabove, I/we hereby submit the relevant information as hereunder:

- a. I/We hereby certify that all the statement made and information supplied in the enclosed Forms A to K and accompanying statement are true and correct in all respects and no information has been concealed and misrepresented.
- b. I/We have furnished all information and details necessary for certifying the eligibility and that no further pertinent information required to be shared remains undisclosed.
- c. I/We hereby submit the requisite certified solvency certificate and authorize the Director, IIMU to approach the bank issuing the solvency certificate to confirm the correctness and veracity thereof. I/We also authorize Director, IIMU to approach individuals, owners, firms and corporations to verify my/our competence and reputation.
- d. I/We submit the following certificates in support of my/our suitability, technical knowledge and capability for having successfully completed the following works:

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Sr.No.	Name of Work	Certificate from

Enclosures:

Seal of tenderer

Date of submission

SIGNATURE(S) OF TENDERER(S)

FORM A**FINANCIAL INFORMATION**

Financial Analysis-Details to be furnished duly supported by figures in balance sheet/profit & loss account for the last **five (5)** years duly certified by the Statutory Auditors/ a chartered accountant (in case the appointment of a statutory auditor is not applicable), as submitted by the tenderer to the Income Tax Department (copies of all the documents to be attached).

S. No.	Description	Years				
		2013-2014	2014-2015	2015-2016	2016-2017	2017-2018
i)	Gross Annual turnover					
ii)	Turnover on Similar works					
iii)	Profit/Loss					

I. Financial arrangements for carrying out the proposed work.

II. Solvency Certificate from Bankers of tenderer in the prescribed Form B

SIGNATURE OF TENDERER(S)

Signature of Chartered Accountant with Seal

FORM B

(FORM OF BANKER'S SOLVENCY CERTIFICATE FROM A SCHEDULED BANK)

SOLVENCY CERTIFICATE

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

Rs.....(Rupees.....
.....).

This certificate has been issued at the specific request for limited purpose of submitting the same to the Indian Institute of Management, Udaipur (Rajasthan) and shall not be used for any other purpose whatsoever.

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

(Signature)

For the Bank

GENERAL INSTURCTIONS:

- (1) Banker's Solvency Certificate must be on the letterhead of the bank issuing such certificate, sealed in a cover addressed to the **Director, IIMU.**
- (2) In case the Solvency Certificate is issued at the request of a partnership firm, such certificate must include names of all partners as recorded with the Bank.
- (3) The Solvency Certificate shall not be more than 6 months old.

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FORM C

DETAILS OF ALL WORKS OF SIMILAR NATURE COMPLETED & PROJECT SPECIFIC WORK DURING THE LAST SEVEN YEARS ENDING **MARCH 31 2018**

A	B	C	D	E	F	G	H	I	J
Sr.No	Name of work/project and location	Owner or sponsoring organization	Cost of work in Crores	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation / arbitration cases pending/in progress with details*	Name and address / telephone number of officer to whom reference may be made	Remarks
1									
2									
3									

Certified that the above list of works is complete and no work has been left undisclosed and that the information furnished above is true, correct and not misleading to my/our knowledge and belief.

SIGNATURE OF TENDERER(S)

DEVELOPMENT OF PERMANENT CAMPUS OF IIM UDAIPUR**FORM "D"****PROJECTS UNDER EXECUTION OR AWARDED**

	A	B	C	D	E	F	G	H	I
Sr.No	Name of work/ project and location	Owner or sponsoring organization	Cost of work	Date of commencement as per contract	Stipulated date of completion	Up to date percentage progress of work	Slow progress if any, and reasons thereof	Name and address/ telephone number of officer	Remarks
1									
2									

Certified that the above list of works is complete and no work has been left undisclosed and that the information furnished above is true, correct and not misleading to my/our knowledge and belief.

SIGNATURE OF TENDERER(S)

DEVELOPMENT OF PERMANENT CAMPUS OF IIM UDAIPUR

FORM E (On respective owner's letterhead)

PERFORMANCE REPORT OF WORKS REFERRED TO IN FORMS C & D

1	Name of work/ Project & Location		
2	Agreement No.		
3	Estimated Cost		
4	Tendered Cost		
5	Date of Start		
6	Date of completion		
	i)	Stipulated Date of Completion	
	ii)	Actual Date of Completion	
7	Amount of compensation levied for Delayed completion, if any.		
8	Amount of reduced rate items, if any.		
9	Performance Report		
	1) Quality of Work		Very Good/Good/Fair/Poor
	2) Financial Soundness		Very Good/Good/Fair/Poor
	3) Technical Proficiency		Very Good/Good/Fair/Poor
	4) Resourcefulness		Very Good/Good/Fair/Poor
	5) Company / Personal establishment during work.		Very Good/Good/Fair/Poor
	6) General Behavior		Very Good/Good/Fair/Poor

Certified that the above information is complete and that the information furnished above is true, correct and not misleading to my/our knowledge and belief.

Dated:

Stamp:

Signed by Ex. Engineer or equivalent and attested by first class judicial magistrate or equivalent or Group A Gazette officer of Central or any State Government or equivalent.

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FORM F

STRUCTURE & ORGANIZATION

1	Name & Address of the tenderer		
2	Telephone No./Telex No./Fax No./e-mail address		
3	Legal status of the tenderer (attach copies of original document defining the legal status).		
	a)	A proprietary firm	
	b)	A firm in partnership	
	c)	A limited company or Corporation	
4	Particulars of registration with various Government bodies (attach attested photocopy).		

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	ORGANIZATION/PLACE OF REGISTRATION NO.	REGISTRATION
	1	
	2	
5	Names and Titles of Directors & Officers with designation to be deputed for the Works	
6	Designation of individuals authorized to act for the organization.	
7	Was the tenderer ever required to suspend construction for a period of more than six months continuously after commencement of construction? If so, give the name of the project and reasons of suspension of work.	
8	Has the tenderer or any constituent partner in case of partnership firm, ever abandoned the awarded work before its completion? If so, give name of the project(s) and reasons for abandonment.	

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9	Has the tenderer or any constituent partner in case of partnership firm, ever been debarred/ black listed for tendering by any organization at any time? If so, give details.	
10	Has the tenderer or any constituent partner in case of partnership firm, ever been convicted by a court of law? If so, give details.	
11	Field of specialization and interest of the tenderer in the Civil Engineering Construction	
12	Any other information considered necessary but not included above.	

Certified that the information mentioned above is complete and no information has been left undisclosed and that the information furnished above is true, correct and not misleading to my/our knowledge and belief.

SIGNATURE OF TENDERER(S)

DEVELOPMENT OF PERMANENT CAMPUS OF IIM UDAIPUR**FORM G****DETAILS OF TECHNICAL & ADMINISTRATIVE PERSONNEL TO BE EMPLOYED FOR THE WORK**

Sl. No.	Designation	Total number	Number available for this work	Name	Qualifications	Professional/ experience and details of work carried out	How these would be involved in this work	Remarks
A	B	C	D	E	F	G	H	J
1								
2								

Certified that the information mentioned above is complete and no information has been left undisclosed and that the information furnished above is true, correct and not misleading to my/our knowledge and belief.

SIGNATURE OF TENDERER(S)

DEVELOPMENT OF PERMANENT CAMPUS OF IIM UDAIPUR

FORM H

DETAILS OF CONSTRUCTION EQUIPMENT PROPOSED TO BE USED IN EXECUTION OF THE WORKS

Sl. No.	Name of Equipment	Nos.	Capacity or Type	Age	Condition	Ownership status			Current location	Remarks
						Presently Owned	Leased	To be Purchased		
A	B	C	D	E	F	G	H	I	J	K
1	Mechanical Tool Box									
2	DG set									
3	Any other machinery required for completion of the work as per decision of Engineer-in-charge.									

I/We, the undersigned, do hereby undertake that we shall deploy all plants, equipment's and machineries required for implementation of the project as per technical specifications. I/We also undertake to either own or have assured access through hire or lease the key items of the equipment's as specified in this form.

DEVELOPMENT OF PERMANENT CAMPUS OF IIM UDAIPUR

Certified that the information mentioned above is complete and no information has been left undisclosed and that the information furnished above is true, correct and not misleading to my/our knowledge and belief.

.....

Signed by an Authorized Officer of the tenderer

FORM I

GENERAL INSTRUCTIONS FOR THE AFFIDAVIT:

1. *The affidavit shall be executed on appropriate non-judicial **stamp paper** of minimum value as applicable in the State of Rajasthan and notarized by a Notary Public;*

AFFIDAVIT

I, _____, aged ____ years, son/daughter of _____, presently residing at _____ and authorized by _____ (name of tenderer) ("Tenderer") to solemn this affidavit on behalf of the Tenderer, solemnly affirm on oath as hereunder:

1. The Tenderer confirms that eligible similar works(s) have not been got executed through another contractor on back to back basis.
2. The Tenderer confirms and agrees that, if any such violation comes to the notice of Indian Institute of Management, Udaipur ("Owner"), then the Owner shall be at liberty to initiate appropriate penal and legal action against the Tenderer.
3. The Tenderer confirms and agrees that if such a violation comes to the notice of the Owner at any time before the date of start of Work, the engineer-in-charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

DEPONENT

VERIFICATION

I, _____, aged ____ years, son/daughter of _____, presently residing at _____ and authorized by Tenderer verify that the information mentioned above is true and correct to the best of my knowledge and belief.

DEPONENT

FORM J

CRITERIA FOR ELIGIBILITY CRITERION EVALUATION OF CONTRACTORS

	Attributes	Max. Marks	Marks Obtained By the Bidder on Self-Assessment	Evaluation Criteria *1				Remarks
A	Financial strength	20		<i>(i) 60% marks for minimum eligibility criteria</i>				
1	Average annual turnover	16		<i>(ii) 100% marks for twice the minimum eligibility criteria or more</i>				
2	Solvency Certificate	4		<i>In between (i) & (ii) – on pro-rata basis</i>				
B	Experience of Work during last seven years.	20		<i>(i) 60% marks for minimum eligibility criteria (ii) 100% marks for twice the minimum eligibility criteria or more In between (i) & (ii) – on pro-rata basis</i>				
C	Performance on works (time over run)	20						
	Parameter -			SCORE				
	Calculation for Points		If TOR =	1	2.0	3.0	>3.5	Maximum Marks (20)
1	Without levy of compensation			20	15	10	10	
2	With levy of compensation			NA	5	0	-5	
3	Levy of compensation			NA	10	0	0	

	n decided							
	TOR (Time Over Run) = AT/ST, where AT=Actual Time; ST=Stipulated Time.							
D	Performanc e of works (Quality)	4 0		<i>Outstanding Quality 40 Marks Very Good Quality 30 Marks Good Quality 20 Marks Poor Quality 0 Marks The evaluation will be done by the expert committee/jury nominated by the University for the purpose based on documents submitted and/or other means as decided by the committee/jury who may include visit of the site of project referred to by the bidder or any other project deemed fit by Engineer In Charge. The bidder must submit precise certificate given by the Owner/owner signed by an officer not below the rank of Executive Engineer or equivalent Preferably with photographic evidence to support evaluation for this category, in case of absence of such document Zero (0) marks shall be awarded for the specific category of evaluation.</i>				
To become eligible for short listing the bidder must secure at least 50% marks in each section A, B, C, and D and sixty percent marks in aggregate. The Institute reserves the right to restrict the list of qualified contractors to any number deemed suitable by it.								
*1- Precise certificate given by the Owner signed by an officer not below the rank of Executive Engineer or equivalent shall be furnished along with photographic evidence to support evaluation for this category, in case of absence of such document Zero (0) marks shall be awarded for the specific category of evaluation.								
*1 – In place of a copy of bill/final bill, The Bidder can also submit a certificate by the Owner or his authorized representative, stating the quantity of works executed for each Work Specific items mentioned in qualifying criteria above, in support of his claim regarding his having executed the work specific items.								

FORM L

GENERAL INSTRUCTIONS FOR THE AFFIDAVIT:

1. The affidavit shall be executed on appropriate non-judicial **stamp paper** of minimum value as applicable in the State of Rajasthan and notarized by a Notary Public;

AFFIDAVIT FOR SITE VISIT

I, _____, aged ____ years, son/daughter of _____, presently residing at _____ and authorized by _____ (name of tenderer) ("Tenderer") to solemn this affidavit on behalf of the Tenderer, solemnly affirm on oath as hereunder:

1. The Tenderer confirms that the Tenderer has duly undertaken the visit of the proposed project site of Indian Institute of Management, Udaipur located at Village Balicha, Udaipur, Rajasthan.
2. The Tenderer has inspected and examined its surroundings and has satisfied itself about the site conditions and site logistics. The Tenderer confirms that it is aware of the ground conditions and nature of the site, means of access to the site and the accommodation area required for establishing the labour camp. The Tenderer agrees and confirms it shall be solely responsible for arranging and maintaining the aforementioned at its own cost including 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.
3. The Tenderer confirms and agrees that the submission of the tender implies that the requisite site visit has already been undertaken and that the Tenderer has acquainted itself with the local conditions and other factors having a bearing on the execution of the Work.

DEPONENT

VERIFICATION

I, _____, aged ____ years, son/daughter of _____, presently residing at _____ and authorized by Tenderer verify that the information mentioned above is true and correct to the best of my knowledge and belief.

DEPONENT

Requirement of technical Staff

Technical Staff

The tenderer shall deploy sufficient number of technical and administrative employees for smooth execution of the Work. The tenderer shall submit a list of employees stating clearly the responsibility to be assigned to each of such employees. Further, the tenderer shall have the capability and resources to arrange at least 10±10% numbers of skilled and 10±10% numbers of unskilled Laborers per day continuously for whole contract period for various stages of the Work. The tenderer shall have to demonstrate the capability to arrange such workers and additional numbers as per the requirement assessed by the Engineer-in-Charge for timely completion of various stages of the Work. The capability as claimed by the tenderer shall be supported by the past performance and an undertaking.

Technical Staff	Requirement of Technical staff		Minimum experience of Execution work (Years)
	Qualification	Number	
Horticulturist	• Project Leader Graduate	1	15
	• Gardener	3	15
	• Graduate Engineer	1	5
	• Site Engineers Graduate Engineer	1	2
	Or Diploma Engineer	1	5
Civil Engineer			

SECTION 2

PROFORMA OF SCHEDULES: A TO F

SCHEDULE A
SCHEDULE OF QUANTITIES

SCHEDULE B

Schedule of materials to be issued to the Contractor

Sr. No.	Descripti on of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of issue
1	2	3	4	5
	NIL	NIL	NIL	NIL

SCHEDULE C

Tools and plants to be made available to the Contractor:

Sr. No.	Description of item	Quantity
1	2	3
	NIL	NIL

SCHEDULE D

Extra schedule for specific requirements / documents for the work if any.

The tenderer may give additional information other than sought for in the preceding paragraph.

SCHEDULE E

Reference to General Conditions of Contract.

Name of Work: Tender for Horticulture and Landscaping work at the permanent campus of IIM Udaipur, Balicha, Udaipur, Rajasthan.

Estimated cost of work: Rs. 328.38 Lacs

Earnest Money : Rs 6.57 Lacs

(ii) Performance Guarantee: 5% (Five Percent) of tendered value

(iii) Security Deposit : 2.5% (Two and half Percent Percent) of tendered value

SCHEDULE F (GENERAL RULES & DIRECTIONS)

- (1) Authority Inviting Tender - **Director, Indian Institute of Management.**
- (2) Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses "Deviation, Extra items and pricing & Deviation submitted items and pricing" Please refer below

Definitions:

Sr. No	DESCRIPTION	DETAILS
1	Owner	Director, Indian Institute of Management Udaipur (IIMU)
2	Project Manager	Nominated Person by IIMU
3	Design Consultant	Consultants, appointed by IIMU as Design Consultant.
4	Engineer In charge	Authorized representative appointed by Indian Institute of Management UDAIPUR
5	Accepting Authority	Director, Indian Institute of Management Udaipur (IIMU)
6	Percentage on cost of materials and Labour to cover all overheads and profits	15%
7	Rates considered for Estimate	DSR 2016 & Market Rates as applicable. (with correction slips issued up to the previous day of the last date of submission of tenders),

CLAUSE 4.2: Performance Guarantee

1	Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance	10 (Ten) Days
2	Maximum allowable extension beyond the period provided in 1 above	5 (Five) Days with late fee @ 0.1% per day of the Performance Guarantee amount.

CLAUSE 4.4: Compensation for Delay and Incentive for early completion

1	Authority for fixing compensation under its clause	Indian Institute of Management Udaipur
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CLAUSE 4.8: Time and Extension for Delay

1	Number of days from the date of issue of letter of acceptance for reckoning date of start.	15 (Fifteen) days.
---	--	--------------------

Milestone(s) as per table given below:-

Though the overall time of completion is **18 months** the contractor shall complete all the Flooring and Dado work covered under this tender, such that they are ready for occupation in all respects, strictly conforming to the time limit specified for such items. Any delay in achieving specified timeline given in the Milestones (as mentioned below) of these shall invite withholding of payments as indicated against each and every Milestone:

Project Milestone Schedule:(Please see also milestone sketch in drawing folder)			
Sr. No.	Description of Milestone (Physical)	Time allowed in Months (from date of start)	Amount to be with-held in case of non-achievement of milestone
Milestone of Time Duration (18 Months)			

1	Establishment of plant nursery complete with beds and agronet cover from all sides to hold at least 30,000 well developed plants for plantation.	15 Days	0.5% of tendered amount.
2	Academic building and its surroundings Student housing (occupied buildings) and its surroundings Faculty housing (occupied 16 units) and its surroundings Visiting faculty housing and its surroundings Staff housing and its surroundings Road from entry to Academic building	4 Months	1% of tendered amount
3	All remaining roads Complete west campus plantation	6 Months	1% of tendered amount
4	All geogrid installation and associated planting works Faculty & Staff housing (remaining units)	12 Months	1% of tendered amount
5	Central Valley Plantation Plantation around Water Body 4 Handing over the site	18 Months	1% of tendered amount

Note: Withheld amount shall be released if and when subsequent milestone is achieved within respective time specified.

1	Total Time allowed for execution of work	18 Months.
2	Authority to decide Extension of Time	Director, Indian Institute of Management Udaipur (IIMU)
3	Rescheduling of Milestones	Engineer In Charge, and the Rescheduling is to be approved by Director, Indian Institute of Management Udaipur (IIMU)

CLAUSE 4.11: Payment on Intermediate Certificate to be regarded as Advances

1	Gross work to be done together with net payment / adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment.	Duration between two Running Account Bills is minimum 30 days (this limit will not apply to the first running bill and last running bill preceding the final bill)
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List of Testing Equipment's.

1	List of Testing equipment to be provided by the contractor at site Laboratory.	As per (Table-1) of Annexure-1 attached.
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CLAUSE 4.17 & 4.18: Mobilization Advance or Secured Advance.

1	Mobilization Advance or Secured advance on Non-perishable materials.	Applicable as per detailed clause.
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CLAUSE 4.19: Payment due to increase/decrease in Prices/ Wages (excluding materials covered under clause after Receipt of Tender for Works):

1	Payment due to increase/decrease in Prices/ Wages (excluding materials covered under clause after Receipt of Tender for Works)	Applicable as per detail clause
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CLAUSE 4.21: Work to be executed in accordance with Specifications, Drawings, and Orders etc.

1	Specifications	Detailed Specifications and related IS codes.
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CLAUSE 4.22: Deviations/Variations/ Extent and Pricing

1	Deviation limit beyond clause 4.22 shall apply for all work (Above plinth level).	30 % (Thirty Percent).
2	Deviation Limit beyond clauses 4.22 for work up to plinth level	100% (One Hundred percent)

CLAUSE 4.26: Action in case work not done as per Specifications

1	Competent Authority for deciding reduced rates.	Engineer in Charge
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CLAUSE 4.28: Contractors to Supply Tools & Plants etc.

1	List of machinery, tools & plants to be deployed by the contractor at site	Appendix-I but not limited to.
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CLAUSE 4.37: Settlement of Disputes

1	Settlement of Disputes	Committee appointed by IIMU
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Clause 5

Schedule of handing over of site

Part	Portion of site	Description	Time Period for handing over reckoned from date of issue of letter of intent.
1	Horticulture and Landscaping work	All Areas	Within 10 Days

Schedule of issue of Designs

Part	Portion of Design	Description	Time Period for issue of design reckoned from date of receipt of tenders
Part A	Portion already included in NIT	Tender Drawings	Included in Tender Set
Part B	Portions of Designs to be issued	Working Drawings	As per Contractors Time and Progress Chart

Clause 5.4

Schedule of rate of recovery for delay in submission of the modified program in terms of delay days

I.	More than 1 Crore but Less than 5 Crore.	Rs. 1000
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Employment of Technical Staff and employees

Requirement of Technical Representative(s) in progressive manner in satisfaction of Project Manager & Engineer-In-Charge with its recovery Rate.

S. No.	Minimum Qualification of Technical Representative	Discipline	Minimum Experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause Figures	
1.	Project Leader Graduate	Horticulturist	fifteen Years	One	Rs. 50,000/p.m.	
2.	Gardener/ Technical Representative •	Horticulturist	Fifteen Years	Three	Rs. 15,000/p.m.	
3.	Graduate Engineer or Diploma Engineer	Civil	Five Years	One	Rs. 30,000/p.m.	.
4.	Graduate Engineer or Diploma Engineer	Civil	Two Years Five Years	One	Rs. 15,000/p.m. Rs. 15,000/- p.m.	

ANNEXURE-1

(TABLE-1)

Equipment for Testing of Materials & Concrete at Site Laboratory

All necessary equipment for conducting all necessary tests shall be provided at the site Laboratory by the Contractor at its own cost. The following minimum Laboratory equipment shall be set up at the Site office Laboratory:

Sl. No.	Equipment	Numbers (Minimum)
1.	Necessary Machines and Equipment's for Execution	List to be provided by bidder.
2.	Any other equipment for site tests as outlined in BIS and as directed by the Engineer-in-charge.	

Note: The above list is only indicative and not exhaustive.

SECTION 3

GENERAL RULES & DIRECTIONS

The Tender shall state the work to be carried out, the date for submitting and opening tenders and the time allowed for executing the Work, the amount of earnest money to be deposited with the tender, the amount of the security deposit and performance guarantee to be deposited by the successful tenderer and the percentage if any, to be deducted from the security deposit. Copies of the specifications, designs and drawings and any other documents required in connection with the Work signed for the purpose of identification by the officer inviting tender shall also be open for inspection by the tenderer at the office of IIMU during office hours.

In the event of the tender being submitted by a 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 behalf of such partner by a person holding a valid power of attorney from such absentee partner specifically for the purposes of the tender. Such power of attorney shall be produced along with the tender. Any firm submitting its bid pursuant to the tender shall be duly registered under the Indian Partnership Act, 1932.

Receipts for payment made on account of completed 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.

1. Any person who submits a tender shall fill up the rates in the Schedule of quantities. Tenders, which propose any alteration in the Work specified in the Schedule of Quantities or in the time allowed for executing the Work or which contain any other conditions of any nature, including conditional rebates, shall be liable to be summarily rejected.
2. Being an Item Rate Tender, only rates quoted shall be considered. 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) shall be considered to be zero and Work shall be required to be executed accordingly.

3. All rates shall be quoted on the tender form. The amount for each item shall be worked out and requisite totals given specifically. Special care should be taken to write the rates in figures as well as in words and the amount in figures only, in such a way that interpolation is not possible. The total amount should be written both in figures and in words. 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 2.15 P' and in case of words, the word, 'Rupees' should precede and the word 'Paisa' should be written at the end. Unless the rate is in whole rupees and followed by the word 'only' it should invariably be up to two decimal places. While quoting the rate in Schedule of Quantities, the word 'only' should be written closely following the amount and it should not be written in the next line.
4. If the Tender of the successful Tenderer is seriously unbalanced in relation to estimate of the cost of Work to be performed under the tender, the Owner may require the Tenderer to produce detailed price analyses for any or all items of the of Quantities, to demonstrate the internal consistency of those prices with the implementation/construction methods and the schedule proposed.
5. The IIMU 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 there upon be given to the contractor who shall thereupon for the purpose of identification sign copies of the specifications and other documents mentioned above. In the event of a tender being rejected, the earnest money shall thereupon be returned to the respective tenderers without any interest on such earnest money.
6. The IIMU shall have the right of rejecting all or any of the tenders and shall not be bound to accept the lowest or any other tender.
7. In the case of any tender where unit rate of any item/items appear unrealistic, such tender shall be considered as unbalanced and in case the tenderer is unable to provide satisfactory explanation, such a tender shall be liable to be disqualified and rejected.
8. The receipt of an accountant or clerk for any money paid by the tenderer shall not be considered as an acknowledgment for payment to the IIMU and the tenderer shall be responsible for ensuring that a receipt signed by the IIMU or a duly authorized cashier is obtained for monies paid.

The tenderers shall sign a declaration under the Officials Secret Act, 1923, for maintaining secrecy of the tender documents, drawings or other records connected

with the Work awarded to the tenderer. The unsuccessful tenderers shall return all the drawings shared during the course of the tender process.

9. Use of correcting fluid, anywhere in tender document shall not be permitted. Such tender shall be liable to be rejected .
 - i. The Contractor whose tender is accepted, shall be required to furnish **performance guarantee of 5% (five percent) of** the tendered amount within the period specified herein. Such performance guarantee shall be in the form of Banker's cheque of any nationalized bank/demand draft of any nationalized bank/ fixed deposit receipts or guarantee bonds of any nationalized bank in accordance with the prescribed form.
 - ii. The tenderer whose tender is accepted shall be required to furnish by way of **Security Deposit for the fulfillment of the Contract, an amount equal to 2.5% (Two and half Percent)** of the tendered value of the work. The Security Deposit shall be collected by deductions from the running bills of the Contractor at the rates mentioned above and the earnest money deposited at the time of tenders, shall be treated as a part of the Security Deposit. The Security Deposit shall also be furnished in form of bank guarantee.
10. Upon acceptance of the tender, the name of the accredited representative(s) of the tenderer, responsible for taking instructions from the Engineer-in-Charge, shall be communicated in writing to the Engineer-in-Charge/Design Consultant with a copy to the Owner.
11. GST or any other tax applicable in respect of inputs procured by the contractor for this contract shall be payable by the contractor and IIMU will not entertain any claim whatsoever in respect of the same. However, component of GST at time of supply of service (as provided in CGST Act 2017) provided by the contract shall be varied if different from that applicable on the last day of receipt of tender including extension if any and the same shall be paid by the Contractor to the concerned department on demand and it shall be reimbursed by the IIMU on recommendation of Engineer-in-Charge upon satisfaction that the requisite tax has been actually and genuinely paid by the Contractor. The applicable and eligible tax shall be reimbursed preferably within 7 days but not later than 30 days of submission of documentary proof of payment provided same are in order.
12. The Tender for the Work shall not be witnessed by a tenderer (s) who are participating in the tender for the same Work. Failure to comply with this condition

shall render the tenders of both the rendering as well as the the tenderer witnessing liable to be summarily rejected.

13. The ESI and EPF contribution on the part of employer in respect of this contract shall be paid by the contractor. These contributions on the part of the employer paid by the contractor shall be reimbursed by the Engineer-in-Charge to the contractor on actual basis. The applicable and eligible amount of EPF & ESI shall be reimbursed preferably within 7 days but not later than 30 days of submission of documentary proof of payment provided same are in order.
14. The Contractor shall comply with the provisions of the Apprentices Act, 1961, and the rules and orders issued there under from time to time. Any failure to so shall amount to a breach of the Contract and the Owner may in its discretion, without prejudice to any other right or remedy available in law, cancel the Contract. The Contractor shall also be liable for any pecuniary liability arising on account of any violation under the provisions of the Apprentices Act, 1961.

General instructions for filling of Tender:

The tender shall be written in English language. All other information such as documents and drawings supplied by the tenderer shall also be in English language only. Drawings and design shall be dimensioned according to the metric system of measurements. Tender shall be forwarded under cover or a letter typewritten on the tenderer's letterhead and duly signed by the tenderer. Signature must be in long hand, executed in ink by a duly authorized principal/representative of the tenderer. No oral, telegraphic or telephonic tenders or subsequent modifications there to shall be entertained. If a tender is submitted on behalf of the firm, then all the partners shall sign the Tender or the Tender may be signed by one of the partners in whose favor all the remaining partners have given such signing partner a valid General Power of Attorney. In case of tender submitted by a company, the person who has been authorized by the Board of Directors through a resolution shall sign the tender. Copy of power of attorney/resolution as the case may be, and the authority letter in favor of the person signing must accompany the tender.

The Tenderer shall quote the rate both in words and in figures, with reference to each item for all the items shown in the attached Schedule of Quantities. Incomplete offer under the tender shall be liable for rejection. Quantities shown in the Schedule of Quantities are approximate and can increase or decrease (i.e. the rates are firm and are independent of quantity). No claim shall be entertained for any item of work due to variation in the quantities.

The tender shall be typed or written in indelible ink and shall be signed by the tenderer or a person(s) duly authorized to sign under a valid Power of Attorney/Board Resolution on behalf of the Tenderer. The person or persons signing the tender shall initial at all pages of

the tender document and an initial shall be affixed at all such places where any insertions, corrections or amendments are made by hand.

The tenderer shall sign at the bottom right hand corner of every page of the tender documents in token of acceptance of tender conditions and for the purpose of identification.

General instructions:

The offer shall remain valid for acceptance for a period of **60 (Sixty) days** from the date of opening of the Technical Tender.

The Contractor shall give his address for communication along with telephone/e-mail address and all communication made by **IIMU** to the said address by registered post acknowledgement due, speed post, courier or any other mode of service shall be deemed to have been effected provided that communication made by mobile, telephone or e-mail shall be followed by a written communication through courier/post. All correspondence addressed to **IIMU** shall be in the name of **Director, IIMU at the Permanent Campus of IIM Udaipur, Rajasthan.**

Submission of a tender by a tenderer implies that it has read all the terms and conditions contained in this document and all other contract documents and has acquainted itself of the nature, scope and specifications of the Works to be executed. The Contractor shall also be deemed to have acquainted itself of the local conditions and other factors, which might have a bearing on the execution of the Works. **IIMU** shall in no event be held liable for any loss/damage/harm for costs or otherwise caused to the Contractor due to such non-acquaintance.

Against the loss/damage/harm caused, **IIMU** shall not be liable for any act or omission of the act of the Contractor in so far as any violation of any of the aforementioned act.

Tenderers have to compulsorily submit the entire tender Contract Documents. Every Tenderer shall submit all documents issued to him for the purpose of this tender after duly filling the same in all respects. Tender Contracts, which are found to be vague, irrelevant and incomplete shall be summarily rejected.

Unless otherwise stated, the contract shall be for the whole Work as described in the "Schedule of items of Works" and under the drawings. The Contractor shall be bound to complete the whole Work within such stipulated time as set out in the schedule of items of Works and the drawings, including such additional items as may be necessary, if any, as per drawings and instructions. The issuance of certificate of completion as issued by the Engineer-in-Charge and Design Consultant shall be mandatory for indicating the successful completion of work and such certificate of completion will be conclusive proof of completion of Work.

The work to be carried out under the Contract shall, except as otherwise provided in these conditions shall include all Labour, materials, tools, plants, equipment, transport and royalties which may be required in preparation of the full and entire execution and completion of the Works. The descriptions given in the Schedule of Quantities shall, unless otherwise stated be held to include wastage of materials, carrying and all other Labour necessary for the full and entire execution and completion of the Work as aforesaid in accordance with the specifications, good practice and recognized principles.

The Contractor shall be deemed to have satisfied itself before submission of the tender as to the correctness and sufficiency of the tender for the Works and of the rates and prices quoted in the Schedule of Quantities, 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. Under no circumstances shall the Contractor withdraw from the Contract once the tender is accepted. In an event of withdrawal or default by the Contractor, the deposit of earnest money made by the Contractor shall stand forfeited.

No cost payable for preparing tender: The tenderer shall not be entitled to claim any costs, charges, expenses in connection with preparation and submission and subsequent clarification of its tender in the event of withdrawal of the invitation of tenders by IIMU.

The Contractor shall comply with the provisions of the Apprentices Act, 1961, Minimum Wages Act, 1948, Workmen's Compensation Act, 1923, Contract Labour (Regulation and Abolition) Act, 1970, Payment of Wages Act, 1936, Owner's Liability Act, 1938, Maternity Benefits Act, 1961, and the Industrial Disputes Act, 1947 as may be applicable and the rules and regulations issued there under from time to time. The list of the statutes mentioned above is an indicative list and all enactments applicable for workmen shall be complied with by the tender. Any failure to comply with such statutes shall amount to breach of the Contract and the Engineer-in-Charge may, at his discretion, terminate the Contract without any prior notice being furnished to the Contractor. The Contractor shall also be liable for any pecuniary liability arising on account of violation of any of the said statutes and shall indemnify and keep the IIMU indemnified for any loss or damage arising on account of the same.

The provisions in the Tender documents shall prevail over the contents of the above paragraphs if there is any contradiction or variation in the conditions mentioned hereinabove and those contained in the Contract Documents.

SECTION 4
GENERAL CONDITIONS OF CONTRACT

Definitions

The Contract means the documents forming the tender and acceptance thereof and the formal 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 IIMU/ Engineer-in- Charge / Design Consultant and all these documents taken together, shall be deemed to form one contract and shall be complementary to one another.

In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-

Work:

The expression work or works shall, mean unless there be something either in the subject or context repugnant to such construction the context otherwise requires be construed and taken to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional.

Site:

The Site shall mean the land, adjacent land, path, street or other places, the exclusive right and/or the ownership of which vests with IIMU through which work is to be executed under the contract and which may be allotted or used for the purpose of carrying out the work(s) under the contract.

Contractor:

The Contractor 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.

Owner/ Owner:

Owner shall mean IIMU. IIMU means Indian Institute of Management Udaipur.

Project Manager:

Means nominated person appointed by IIMU.

Design Consultants:

Design Consultants shall mean specialist architects, associate architects and their authorized consultants and Engineers appointed by the IIMU to design and monitoring the Architectural, Structural, Electrical, Plumbing, Acoustic, HVAC, Landscape and Infrastructure works and also to check quality, project scheduling, cost control, installation of systems and equipments in the Works and ensure that the same is done as per the drawings approved.

Engineer-in-Charge:

Engineer-in-Charge (EIC) shall mean the authorized representative appointed by IIMU, who shall supervise and be in charge of the work. Engineer-in-Charge will administer the contract with the assistance of his authorized subordinate Engineers.

Accepting Authority:

Accepting Authority shall mean the authority mentioned in Schedule 'F'.

Excepted Risk:

Excepted Risk are risk 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 Owner damage 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 Accepting Authority (i.e. either the Owner or an Agency appointed by the Owner) or causes solely due to use or occupation by Owner of the part of the Work in respect of which a certificate of completion has been issued or a cause solely due to Owner's faulty design of works..

Market Rate:

Market rate shall be the rate as decided by the Engineer-in-Charge in consultation with Design Consultant 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 Schedule 'F' to cover all overheads and profits of the Contractor and approved by the IIMU, provided that no extra overheads and profits shall be payable on the part(s) of work assigned to other agency(s) by the contractor as per terms of contract.

Tendered value:

Tendered value / Contract value means the value of, the entire Work as stipulated in the letter of award.

Date of commencement of work:

The Date of commencement of work shall be the date when contract comes into existence i.e. the date the Letter of Acceptance by IIMU is awarded 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.

Nominated Sub-Contractor:

Nominated Sub-Contractor shall mean any person or agency appointed by IIMU for the execution of any particular Work or providing any services under the Contract.

Samples:

Samples are physical samples, which illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.

Shop drawings:

Shop drawings means those drawings or other documents which are specifically prepared by or on behalf of the Contractor to illustrate details of construction for the purpose of fabrication or installation or any other construction related works mentioned in the Tender which required by the Design Consultant and are submitted to the Engineer In charge for the approval/suggestion/verification from Design Consultant as the Contractor's intended method of achieving the end result required by the Contract Drawings and Specifications.

Submittals:

Submittals includes progress schedules, setting out drawings, shop drawings, testing and inspection reports, and other information required by the Contract Documents to be submitted by the Contractor for information or approval by the Engineer in Charge.

Virtual Completion:

Virtual Completion shall mean completion of the Works as per drawings and specifications to the entire satisfaction of Engineer in Charge/ Design Consultant/ IIMU whose decision shall be final and binding on the parties in this regard and particularly the act of securing by the Contractor to get the virtual completion certificate from the Engineer in charge and submission of the same to the IIMU to start the Defect liability period of the contract.

Final Completion:

Final Completion shall mean the completion of the Works and any necessary rectification directed to be carried out during the Defects Liability Period and any extension thereof by the Contractor and securing of such final completion certificate from the Engineer in Charge/ Design Consultant/ IIMU, and also obtaining the final handing over of the Works to the IIMU, and the acceptance of the same.

Works to be carried out

The Work to be carried out under the Contract shall, except as otherwise provided in these conditions shall include all Labour, materials, tools and plants, equipment and transport to be provided at the cost and expense of the Contractor 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 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 Works as aforesaid in accordance with good practice and recognized principles.

Sufficiency of Tender:

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 rates and prices quoted in the Schedule of Quantities and Tender Documents, which rates and prices shall, except as otherwise provided, cover all its obligations under the contract and all matters and things necessary for the proper completion and maintenance of the works.

Discrepancies and Adjustment of Errors:

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.

In the case of discrepancy between the schedule of Quantities, the Specifications and / or the Drawings, the following order of preference shall be observed:-

- I) Description of Schedule of Quantities.
- ii) Particular Specification and Special Condition, if any.
- iii) Drawings.
- iv) Specifications.
- v) Indian Standard Specifications of B.I.S.

If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document and his decision shall be final and binding on the contractor.

Any error in description, quantity or rate in Schedule of Quantities or any Omission there from 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.

CLAUSES OF CONTRACT

CLAUSE.4.1.

EARNEST MONEY

The earnest money is paid by each tenderer to enable the IIMU to ensure that a tenderer does not back out of his tender before its acceptance, or refuse to execute the work after it has been awarded to him.

Deposit of earnest money

Earnest Money can be paid in the form of Demand Draft or Pay order or Banker's Cheque drawn in favor of Indian Institute of Management Udaipur along with Bank Guarantee of any Nationalized Bank wherever applicable. The EMD instrument should be deposited in office of IIMU.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, Rs - 6.57 Lacs of earnest money will have to be deposited in the form of Demand Draft or Pay order or Banker's Cheque drawn in favor of Indian Institute of Management, Udaipur, and balance in the form of Bank Guarantee of any Nationalized bank, which is to be submitted to the University Office before last date of tender submission.

The intending tenderer has to fill all the details such as Banker's name, Demand Draft/Pay Order/ Banker's Cheque/Bank Guarantee number, amount and date.

The amount of EMD can be paid by multiple Demand Draft / Pay Order / Banker's Cheque / along with multiple Bank Guarantee of any Nationalized Bank.

The Earnest Money will be returned to the unsuccessful tenderers within a week from the date of award of tender. Entry of Demand Draft received as earnest money with the tenders may be kept in the Tender Opening Register, and these need not be deposited in the bank except for the successful tenderer. The Earnest Money deposited by successful tenderer will be converted to security deposit. The successful tenderer shall furnish the required Performance Guarantee and attend the office of the IIMU for execution of the contract documents and duly enters into the contract within such time as per Schedule-F .

Forfeiture of earnest money

If any tenderer withdraws his tender before the expiry of the validity period, or before the issue of letter of acceptance, whichever is earlier, or makes any modification in the terms and conditions of the tender which are not acceptable to the IIMU, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the retendering process of the work.

If contractor fails to furnish the prescribed performance guarantee within the prescribed period, the earnest money is absolutely forfeited automatically without any notice.

In case the tenderer fails to commence the work specified in Schedule-F or such time period as mentioned in letter of award, after the date on which the Engineer-in-charge issues written orders to commence the work, or from the date of handing over of the site, whichever is later, the IIMU shall, without prejudice to any other right or remedy, be at liberty to forfeit whole of the earnest money absolutely.

If only a part of the work as shown in the tender is awarded, and the contractor does not commence the work, the amount of the earnest money to be forfeited should be worked out with reference to the estimated cost of the work so awarded.

In case of forfeiture of earnest money as prescribed in above, the tenderer shall not be allowed to participate in the retendering process of the work.

CLAUSE.4.2. Performance Guarantee

(I)The contractor whose tender is accepted will be required to furnish performance guarantee of 5% (Five Percent) of the tendered amount within the period specified in Schedule F. This guarantee shall be in the form of Guarantee Bonds of any Nationalized Bank in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F' including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.

(II)The Performance Guarantee shall be initially valid up to the stipulated date of completion plus 60 days beyond that. In case the time for completion of work gets extended, the contractor shall get the validity of Performance Guarantee extended to cover such extended time for completion of work. After recording of the completion certificate for the work by the Engineer In charge, the performance guarantee shall be returned to the contractor, without any interest.

iii)The Engineer-in-Charge shall not make a claim under the performance guarantee except for amounts to which the IIMU is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:

(a) Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer-in-Charge may claim the full amount of the Performance Guarantee.

(b) Failure by the contractor to pay IIMU 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.

(iv) In the event of the contract being determined or rescinded under provision of any of the Clause/Condition of the agreement, the performance guarantee shall stand forfeited in full and shall be absolutely at the disposal of the IIMU.

CLAUSE.4.3. Security Deposit

The person/persons whose tender(s) may be accepted (hereinafter called the contractor) shall permit IIMU, at the time of making any payment to him for work done under the contract to deduct a sum at the rate 2.5% (Two and Half percent) of the gross amount of each running till the sum along with the sum already deposited as earnest money, will amount to security deposit of 2.5% (Two and Half percent) of the tendered value of the work. Earnest money shall be adjusted first in the security deposit and further recovery of security deposit shall commence only when the up-to-date amount of security deposit starts exceeding the earnest money. Such deductions will be made and held by IIMU by way of Security Deposit unless he/they has/have deposited the amount of Security at the rate mentioned above in the form of Government Securities. In case a fixed deposit receipt of any Bank is furnished by the contractor to the IIMU as part of the security deposit and the Bank is unable to make payment against the said fixed deposit receipt, the loss caused thereby shall fall on the contractor and the contractor shall forthwith on demand furnish additional security to the IIMU to make good the deficit.

All compensations or the other sums of money payable by the contractor under the terms of this contract may be deducted from, or paid by the sale of a sufficient part of his security deposit or from the interest arising there from, or from any sums which may be due to or may be come due to the contract or by Owner on any account whatsoever and in the event of his Security Deposit being reduced by reason of any such deductions or sale as aforesaid, the contract or shall within 10 days make good in fixed deposit receipt tendered by the State Bank of India or by Scheduled Banks or Government Securities (if deposited for more than 12 months) endorsed in favor of the IIMU, any sum or sums which may have been deducted from, or raised by sale of his security deposit or any part thereof. The security deposit shall be collected from the running s of the contractor at the rates mentioned above and the Earnest money deposited at the time of tenders will be treated as part of the Security Deposit.

The security deposit as deducted above can be released against bank guarantee issued by a scheduled bank, on its accumulations to a minimum of Rs.5 lac subject to the condition that amount of such bank guarantee, except last one, shall not be less than Rs.5 lac. Provided further that the validity of bank guarantee including the on given against

the earnest money shall be in conformity with provisions contained in clause which shall be extended from time to time depending upon extension of contract granted under provisions of clause (Compensation for delay) and clause (Time and Extension for delay).

Security deposit shall be released as follows:

Security deposit shall be released after the completion of the Defects Liability period

CLAUSE.4.4. Compensation for Delay

If the contractor fails to maintain the required progress in terms of clause (Time and Extension for delay) or to complete the work and clear the site on or before the contract or justified extended date of completion as per clause 5 (Time and Extension for delay) (excluding any extension under 5.5) as well as any extension granted under clauses 12 (Deviations/Variations/ Extent and Pricing) and 15 (Suspension of Work), he shall, without prejudice to any other right or remedy available under the law to the Owner on account of such breach, pay as agreed compensation the amount calculated at the rates stipulated below as the authority specified in schedule 'F' (whose decision in writing shall be final and binding) may decide on the amount of tendered value of the work for every completed day/month (as determined) that the progress remains below that specified in Clause (Time and Extension for delay) or that the work remains incomplete.

This will also apply to items or group of items for which a separate period of completion has been specified.

Compensation for delay of work to @ 1.0 % per month of delay be computed on per day basis

Provided always that the total amount of compensation for delay to be paid under this Condition shall not exceed 10% (Ten Percent) of the Tendered Value of work or of the Tendered Value of the item or group of items of work for which a separate period of completion is originally given.

In case no compensation has been decided by the authority in Schedule 'F' during the progress of work, this shall be no waiver of right to levy compensation by the said authority if the work remains incomplete on final justified extended date of completion. If the Engineer In Charge decides to give further extension of time allowing performance of work beyond the justified extended date, the contractor shall be liable to pay compensation for such extended period. If any variation in amount of contract takes place during such extender period beyond justified extended date and the contractor becomes entitled to additional time under clause 12 (Deviations/Variations/ Extent and Pricing), the net period for such variation shall be accounted for while deciding the period for levy of compensation. However, during such further extended period beyond the justified extender period, if any

delay occurs by events under sub clause 5.2 (Time and Extension for delay), the contractor shall be liable to pay compensation for such delay.

Provided that compensation during the progress of work before the justified extended date of completion for delay under this clause shall be for non-achievement of sectional completion or part handing over of work on stipulated/justified extended date for such part work or if delay affects any other works/ services. This is without prejudice to right of action by the Engineer in Charge under clause 3 (when Contract can be determined) for delay in performance and claim for compensation under that clause.

In case action under clause 2 has not been finalized and the work has been determined under clause 3 (when Contract can be determined), the right of action under this clause shall remain post determination of contract but levy of compensation shall be for days the progress is behind the schedule on date of determination, as assessed by the authority in Schedule 'F', after due consideration of justified extension. The compensation for delay, if not decided before the determination of contract, shall be decided after determination of contract.

The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the IIMU. In case, the contractor does not achieve a particular milestone mentioned in schedule F, or the re-scheduled milestone(s) in terms of Clause (Time and Extension for delay), the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied as above. With-holding of this amount on failure to achieve a milestone, shall be automatic without any notice to the contractor. However, if the contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released. In case the contractor fails to make up for the delay in subsequent milestone(s), amount mentioned against each milestone missed subsequently also shall be withheld. However, no interest, whatsoever, shall be payable on such withheld amount.

In the event of any default of non-payment of such compensation by the Contractor, the Owner shall be fully authorized and entitled to recover such amount of compensation from the bill amounts due payable by the Owner to the Contractor.

The completion period of the entire work shall be as stipulated in the scheduled. The time limit specified above and as approved in writing by IIMU, shall be strictly adhered to and followed. Liquidated Damages will be applicable, item wise and against item wise time schedules. Accordingly the Damages will be based on the value of the Item for which delay has occurred. In case of delay

The penalty shall be recoverable from the Security Deposit provided by the Contractor and if the Security Deposit is not sufficient, then from the Performance Bank Guarantee or any sum payable to the Contractor under this Contract with the IIMU.

CLAUSE.4.5.**When Contract can be Determined**

Subject to other provisions contained in this clause, the **IIMU** may without prejudice to any other rights or remedy contained in this Agreement against the Contractor in respect of any delay, inferior workmanship or any claims for damages and/or any other provisions of this contract or otherwise, whether or not the date of completion has or has not elapsed, may determine the contract by notice in writing absolutely 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 unworkmanlike 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 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 date or justified extender 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 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.
- (vi) If the contractor shall enter into a contract with Owner 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 shall obtain a contract with Owner as a result of wrong tendering or other non-bonfire methods of competitive tendering or commits breach of integrity pact.
- (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 for winding-up, 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 / Design Consultant on behalf of the IIMU 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, the Earnest Money Deposit, Security Deposit already recovered and Performance Guarantee under the contract shall be liable to be forfeited and shall be absolutely at the disposal of the Owner.
- (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.

In the event of anyone or more of the above course(s) of action(s) being adopted by the Engineer-in-Charge the Contractor shall have no right to claim compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any engagement or made any advances on account or with a view to the execution of the Work or the performance of the contract. In the event action is taken under any of the provisions aforesaid, the Contractor shall neither be entitled to recover nor be paid any sum for any work thereof 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 the Contractor shall only be entitled to be paid the value so certified.

CLAUSE.4.6. Work cannot be Started Due to Reasons not Within the Control of the Contractor.

In case, the work cannot be started due to reasons not within the control of the contractor within 1/8th of the stipulated time for completion of work or one month whichever is higher, either party may close the contract by giving notice to the other party stating the reasons. In such eventuality, the Performance Guarantee of the contractor shall be refunded within 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.

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CLAUSE.4.7. Contractor Liable to Pay Compensation even if Action not taken as

Clause-4.5 (When Contract can be determined)

In any case in which any of the powers conferred upon the Engineer-in-Charge by Clause-(when contract can be determined) 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.4.8. Time and Extension for Delay

The time allowed for execution of the Works as specified in Schedule F 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 Schedule F or from the date of handing over of the site, **notified by the Engineer-in-Charge**, whichever is later. **However, the handing over of site by the Engineer in Charge, in full or in part (if so provided in contract), shall be completed within two months for issue of acceptance letter.** If the Contractor commits default in commencing the execution of the work as aforesaid, **the performance guarantee shall be forfeited by the Engineer In charge and shall be absolutely at disposal of the Owner** without prejudice to any other right or remedy available in law.

The contractor shall submit within twenty one days of award of work as in consideration of

- a) Schedule of handing over of site as specified in the Schedule 'F'
 - b) Schedule of issue of designs as specified in the schedule 'F'
- (i) The contractor shall submit a programme Chart (Time and Progress) for each mile stone. The Engineer in Charge may within 30 days thereafter, if required modify, and communicate the program approved to the contractor failing which the program submitted by the contractor shall be deemed to be approved by the Engineer-in-Charge. The work programme shall include all details of balance drawings and decisions required to complete the contract with specific dates by which these details are required by the contractor without causing any delay in execution of the work. 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 Owner 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 one month (save for special jobs for which a separate program has been agreed upon) complete the work as per mile stones given in Schedule F.

- (ii) 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.
- (iii) 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 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 Rs. 5000/- shall be made on per week or part basis in case of delay in submission of the monthly progress report.

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 like above which, in the **reasoned opinion** 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 **Engineer In Charge for entry in the hindrance register (physical or web-based as prescribed in Schedule (F))** but shall nevertheless use constantly his best endeavors to prevent the delay in overall completion of the work or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the works. **The contractor shall have no claim of damages for extension of time granted or rescheduling of milestone/s for events listed.**

In case the work is hindered by any reason, in the opinion of the contractor, by the owner or for someone for whose action the owner is responsible, the contractor may immediately give notice thereof in writing to the Engineer in Charge in the same manner as prescribed seeking extension of time or reschedule of milestone/s. The authority as indicated in schedule 'F' shall, if justified, give a fair and reasonable extension of time and reschedule the milestones for completion of work after due consideration of the

same within 30 days of receipt of such request. 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 programmed, a fair and reasonable extension within a reasonable period of occurrence of the event. 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 lay; provided further that for concurrent delays under this sub clause and sub clause 5.2 to the extent the delay is covered under this clause the contractor shall be entitled to only extension of time and no damages.

Request for rescheduling of Mile stones or extension of time, to be eligible for consideration, shall be made by the Contractor(As per Appendix XVI) in writing with supporting documents within fourteen days of the happening of the event causing delay on the prescribed form i.e Form of application by the contractor for seeking reschedule of milestones (Appendix-XVI) or form of application by the contractor for seeking extension of time (Appendix- XVII) respectively to the authority as indicated in Schedule-F. 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 program by more than 10% of the stipulated period of completion of contract, the contractor shall produce a revised program 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. A recovery as specified in Schedule 'F' shall be made on per day basis in case of delay in submission of the revised program.

In any such case the authority as indicated in Schedule 'F' may give a fair and reasonable extension of time for completion of work or reschedule the mile stones. Such extension or rescheduling of the milestones shall be communicated to the Contractor by the authority as indicated in Schedule 'F' in writing, within 30 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 E-in-C after affording opportunity to the contractor, may give, supported with a program (as specified under 5.4 (Time and Extension for Delay)) fair and reasonable extension within a reasonable period of occurrence of the event.

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 above and beyond the justified extended date; without prejudice to right to take action under Clause 3 (When Contract can be determined), 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.4.9.

Measurement of Work Done

Engineer-in-Charge shall, except as otherwise provided, ascertain and determine by measurement the value of Work done.

All measurement of all items having financial value shall be entered in Measurement Book and/or level field-books complete record is obtained of all works performed under the contract.

All measurements and levels shall be taken jointly by the Engineer-in-Charge or his authorized representative and by the Contractor or his authorized representative from time to time during the progress of the Work and such measurements shall be signed and dated by the Engineer-in-Charge or their authorized representative and the Contractor or their authorized representatives in taken of their acceptance. If the Contractor objects to any of the measurements recorded, a note shall be made to that effect along with reasons and signed by both the parties.

If for any reason whatsoever, the Contractor or his authorized representative is not available and the Work of recording measurements is suspended by the Engineer-in-Charge or his authorized representative, the Owner shall not entertain any claim from the Contractor for any loss or damages on this account. If the Contractor or his authorized representative does not remain present at the time of such measurements after the Contractor or his authorized representative has been given a notice in writing three (3) days in advance or fails to countersign or to record objection within a week from the date of the measurement, then such measurements recorded in his absence by the Engineer-in-Charge or his representative shall be deemed to be accepted by the Contractor.

The Contractor shall, without any extra charge, provide all assistance with every appliance, Labour and other things necessary for measurements and recording levels.

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 notice of not less than seven days in writing to the Engineer-in-Charge or his subordinate in-charge of the Work before covering up or otherwise placing beyond the reach of measurement any Work in order that the same may be measured and correct dimensions thereof may be taken before the same is so covered up or placed beyond the reach or measurement and shall not cover up any Work without the consent in writing of the Engineer-in-Charge or his subordinate in charge of the Work and 'if any Work shall be covered up or be placed beyond the reach of measurement without such notice having been given or consent obtained, the same shall be uncovered at Contractor's

expense or in default thereof no payment or allowance shall be made for such Work or of the material with which the same was executed.

Engineer-in-Charge or his authorized representative may cause either themselves or through another officer of the Authority to check the measurements recorded jointly or otherwise as aforesaid 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 recording of measurements of any item of Work in the measurement book and/or its payment in the interim, on account or 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.4.10. Computerized Measurement Book

Engineer-in-Charge 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 suggested by the Engineer in charge 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 Engineer-in-Charge or his authorized representative as per interval or program fixed in consultation with Engineer-in-Charge or his authorized representative. After the necessary corrections made by the Engineer-in-Charge, the measurement sheets shall be returned to the contractor for incorporating the corrections and for resubmission to the Engineer-in- Charge for the dated signatures by the Engineer-in- Charge 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 Engineer-in-Charge and/or his authorized representative. 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 Engineer in Charge computerized measurement book, duly bound, and with its pages machine numbered. The Engineer-in- Charge and/or his authorized representative 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, after getting the earlier MB cancelled by the Engineer in charge.

The contractor shall also submit to the Engineer in charge separately his computerized Abstract of Cost and the bill based on these measurements, duly bound, and its pages machine numbered along with two spare copies of the "bill. Thereafter, this bill will be processed by the Engineer in Charge and allotted a number as per the computerized record in the same way as done for the measurement book meant for measurements.

The contractor shall, without extra charge, provide all assistance with every appliance, Labour and other things necessary for checking of measurements/levels by the Engineer-in- Charge or his representative.

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 Engineer-in-Charge or his authorized representative 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 Engineer-in-Charge or his authorized representative 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 the Engineer-in-Charge's 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 or his authorized representative may cause either themselves or through another officer of the Authority 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.4.11. Payment on intermediate Certificate to be regarded as Advances

The interim or running account bills shall be submitted by the contractor for the work executed on the basis of such recorded measurements on the format of the Engineer in charge in triplicate on or before the date of every month or as fixed for the same by the Owner. The contractor shall not be entitled to be paid any such interim payment if the gross work done together with net payment/ adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in schedule F, in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved. Engineer-in-Charge shall arrange to have the bill verified by taking or causing to be taken, where necessary, the requisite measurements of the work. In the event of the failure of the contractor to submit the bills, Engineer-in-Charge shall prepare or cause to be prepared such bills in which event no claims whatsoever due to delays on payment including that of interest shall be payable to the contractor. 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 the Engineer-in-Charge. The amount admissible shall be paid by 10th working day after the day of presentation of the bill by the Contractor to the Engineer-in-Charge with the account of the material issued by the Owner, or dismantled materials, if any. In the case of works outside the headquarters of the Engineer-in-Charge, the period of ten working days will be extended to fifteen working days.

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 Owner 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.

The Owner in his sole discretion on the basis of a certificate from the Engineer in Charge to the effect that the work has been completed up to the level in question make interim

advance payments without detailed measurements against work done up to 75% of the assessed value. The advance payments so allowed shall be adjusted in the subsequent interim bill by checking the detailed measurement sheets to be submitted by the contractor within 10 days of the interim payment. In case of delay in submission of bill by the contractor a simple interest @ 10% per annum shall be paid to the Government from the date of expiry of prescribed time limit which will be compounded on yearly basis.

Each bill shall be accompanied by the following documents.

Measurements and quantities of items of Work done since last bill.

Physical Progress Report along with relevant Photographs.

Copies of quality control tests in specified format covering the Work done since last bill.

Copies of instructions recorded in the site instruction book containing the instructions and compliance made thereof, covering the Work done since last bill.

CLAUSE.4.12. 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 shall inspect the work 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.4.13. Contractor to keep site clean

When any repair or maintenance of works are carried out, the splashes and droppings from white washing, color washing, painting etc., on walls, floor, windows, etc shall be removed and the surface cleaned simultaneously with the completion of these items of work in the individual rooms, quarters or premises etc. where the work is done: without waiting for the actual completion of all the other items of work in the contract. In case the contractor fails to comply with the requirements of this clause, the Engineer-in-Charge shall have the right to get this work done at the cost of the contractor or through any other agency. Before taking such action, the Engineer-in-Charge shall give ten days' notice in writing to the contractor.

CLAUSE.4.14. 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. Payments of those items of the bill in respect of which there is no dispute and of items in dispute, for quantities and rates as approved by Engineer-in-Charge, will, as far as possible be made within the period of 3 months, the period being reckoned from the date of receipt of the bill by the Engineer-in-Charge, complete with account of materials issued by the Owner and the dismantled materials.

The final bill shall be accompanied by:

All-technical documents on the basis of which the Work was carried out.

1. As-built drawings. Three sets of construction and installation drawings for all Works, including but not limited to, electrical, HVAC, Plumbing, Fire Systems and Site development, showing therein modifications, corrections and additions signed and confirmed by the Engineer-in-Charge to be "as built" drawings. The entire documentation shall be submitted in Compact Discs (CD), using latest version of AUTOCAD software.
2. Completion certificates for embedded and covered-up Works issued by the Engineer-in-Charge.
3. Certificates for tests carried out for various items of Work.
4. Manufacture's operating and maintenance manuals as well as guarantee/warranty papers, commissioning and handing over reports for whatever equipment/Materials installed.
5. Security Deposit of 2.5% (Two and half Percent) of the Contract Value in the form of bank guarantee valid for a Defect liability period from the date of certificate

CLAUSE.4.15. Materials supplied by Owner

No material is planned to be procured by the Owner for supply to the contractor however in case of any subsequent mutual understanding entered into between the Owner and the Contractor, it is decided that certain materials are to be supplied by the Owner to the Contractor in to the best interest of the Project, the modalities for such Owner supplied material shall be as per mutual understanding between the Owner and the Contractor.

CLAUSE.4.16. Materials to be provided by Contractor

The contractor shall, at his own expense, provide all materials, required for the works other than those which are stipulated to be supplied by the Owner.

The contractor shall, at his own expense and without delay, submit to the Engineer-in-Charge samples of materials to be used on the work and shall get these approved in advance from Design consultants. 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 Engineer-in-Charge shall within ten days of submission 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 Engineer-in-Charge 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 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. 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 Engineer-in-Charge 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 Engineer-in-Charge 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 shall be empowered to order 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 shall also have full powers to require other proper materials to be substituted thereof and in case of default, the Engineer-in-Charge 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.

CLAUSE.4.17. Secured Advance on Non-perishable Materials

(I)The contractor, on signing an indenture in the form to be specified by the Engineer-in-Charge, shall be entitled to be paid during the progress of the execution of the work up to 75% (Seventy Five Percent) of the assessed value of any materials which are in the opinion of the Engineer in- Charge 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.

(ii)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.

CLAUSE.4.18. Mobilization Advance

No Mobilization Advance shall be paid.

CLAUSE.4.19. Payment due to Variation in Prices of Materials after receipt of tender

Deleted

CLAUSE.4.20. Dismantled Material Owner's Property

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

CLAUSE.4.21. Work to be executed in Accordance with Specifications, Drawings, and Orders etc.

The contractor shall execute the whole and every part of the work in the most substantial and workmanlike manner both as regards materials and otherwise in every respect in strict accordance with the specifications. The contractor shall also conform exactly, fully and faithfully to the design, drawings and instructions in writing given by Engineer-In-Charge 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.

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.

The contractor shall have to produce and take an approval of the required shop drawings to execute the work. The Design Consultant as per requirements will give the conceptual drawing in AutoCAD format to the contractor to produce the detailed shop drawings. Contractor has to plan a schedule in advance for the necessary Shop Drawing and has to submit to the Engineer-In-Charge to get approval from Design Consultant if required for an approval of execution at-least fifteen days before the actual execution day.

CLAUSE.4.22. Deviations / Variations Extent and Pricing

The Owner/Engineer in charge/Design Consultant shall have power

(I) To make alteration in, omissions from, additions to or substitutions for the original specifications, drawings, designs and instructions during the progress of the Work at any time as thought fit by the Owner either prior to execution, or on execution or after execution of the Contract Documents, and

(II) To omit a part of the Work(s) for any reasons as the Owner may think fit, and Contractor shall be bound to carry out the Works in accordance with any instructions given to him in writing by the Engineer-in-Charge and such alterations omissions, additions or substitutions shall form an integral part of the contract as if the same has been 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.

The time for completion of the Works shall in the event of any deviations resulting in additional cost over the Tendered Value of the sum being ordered, be extended/enhanced, 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.

Rates for such altered, additional or substituted Work shall be determined as follows:-

- (a) If the rate for altered, additional or substituted item of Work is specified in the schedule of quantities, the Contractor shall carry out the altered, additional or substituted items at the same rate.
- (b) If the rate for any altered, additional, or substituted item of Work is not specified in the schedule of quantities, the rate for that item shall be derived from the rate of the nearest similar item specified therein.

Deviation, Extra items and Pricing

In the case of extra items (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 engineer-in-charge shall within one month 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 will send for the final approval to the Owner.. The contractor shall be paid in accordance with the rates approved by the Owner.

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.

Deviation, Substituted items, Pricing

- (a) 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).
- (b) 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).

Deviation, Deviated Quantities, Pricing

In the case of contract items, substituted items, contract cum substituted items, which exceed the limits laid down in Schedule-F, 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 Engineer-in-Charge shall within one month 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 and approved as above..

The provisions of the preceding paragraph shall also apply to the decrease in the rates of items for the work in excess of the limits laid down in Schedule-F, and the Engineer in-Charge shall after giving notice to the contractor within one month of occurrence of the excess and after taking into consideration any reply received from him within fifteen days of the receipt of the notice, revise the rates for the work in question within one month of the expiry of the said period of fifteen days having regard to the market rates.

The contractor shall send to the Engineer-in-Charge once every three months, an up to date account giving complete details of all claims for additional payments to which the contractor may consider himself entitled and of all additional work ordered by the Engineer-in-Charge which he has executed during the preceding quarter failing which the contractor shall be deemed to have waived his right. However, the Owner may authorize consideration of such claims on merits.

For the purpose of operation of Schedule-F the following works shall be treated as works relating to work up to plinth level.

- (a) For buildings and basements: All works up to respective plinth level or up to floor 1 level.
- (b) For abutments, piers and well staining: all works up to 1.2 m above the bed level:

- (c) For retaining wall, wing walls, compound walls, chimneys, overhead reservoirs/ tanks and
Other elevated structures: All works up to 1.2 meter above the formation ground level
- (d) For reservoirs/ tanks (other than overhead reservoirs/ tanks): All works up to 1.2 meters above the formation ground level:

Any operation incidental to 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, has to be in contemplation of the tenderer while filing the tender. Such operations 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.4.23. Foreclosure of Contract due to Abandonment or Reduction in Scope of Work(s).

If at any time after acceptance of the **tenderor during the progress of work, the purpose or object for which the work is being done changes due to any supervening cause and as a result of which the work has to be abandoned or reduced in scope**, the Engineer in-Charge shall give notice in writing to that effect to the Contractor **stating the decision as well as the cause for such decision** 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 for the full amount for Work(s) 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 foreclosures:

- i) The Owner 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) provided, however, the Owner shall be bound to take over the materials or such portions thereof as the Contractor does not desire to retain. For materials taken over or to be taken over by the Owner, the 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.

- ii) If any materials supplied by Owner are rendered surplus, the same except normal wastage shall be returned by the contractor to Owner at rates not exceeding those at which these were originally issued, less allowance for any deterioration or damage which may have been caused whilst the materials were in the custody of the contractor. In addition, cost of transporting such materials from site to Owner stores, if so required by Owner, shall be paid.

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 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 Government 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 Government from the contractor under the terms of the contract.

In the event of action being taken under Clause 13 (Foreclosure of Contract due to Abandonment or Reduction in Scope of Work) to reduce the scope of work, the contractor may furnish fresh Performance Guarantee on the same conditions, in the same manner and at the same rate for the balance tendered amount and initially valid up to the extended date of completion or stipulated date of completion if no extension has been granted plus 60 days beyond that. Wherever such a fresh Performance Guarantee is furnished by the contractor the Engineer-in-Charge may return the previous Performance Guarantee.

CLAUSE.4.24. Carrying out part work at risk & cost of contractor.

If Contractor

- i. At any time makes default in processing the Work(s) or any part of the Work with the due diligence and continues to do so after a notice in writing of 7 days from the Owner/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 after a notice in writing is given to him in that behalf by the Owner/Engineer-in-Charge; or
- iii. Fails to complete the Work(s) or items of Work, with individual dates of completion, on or before the date(s) of completion assigned to them, and does not complete them within the period specified in a notice given in writing in that behalf by the Engineer-in-Charge.

The Engineer-in-Charge without invoking action under clause (when Contract can be determined Clause no. 4.5) may, without prejudice to any other right or remedy against the contractor which have either accrued or accrue thereafter to Owner, 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 Owner because of action under this clause shall not exceed 10% (Ten Percent) of the tendered value of the work.

In determining the amount, credit shall be given to the contractor with the value of work done in all respect in the same manner and at the same rate as if it had been carried out by the original contractor under the terms of his contract, the value of contractor's materials taken over and incorporated in the work and use of plant and machinery belonging to the contractor. The certificate of the Engineer-in-Charge as to the value of work done shall be final and conclusive against the contractor provided always that action under this clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the Authority 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 Owner in completing the part work/ part incomplete work of any item(s) or the excess loss of damages suffered or may be suffered by Owner as aforesaid after allowing such credit shall without prejudice to any other right or legal remedy available to Owner as per 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.

Where the Contract is rescinded, the security deposit shall be forfeited and the Performance Guarantee shall be encashed and balance work shall be got done independently without risk and cost of the failed contractor. The failed contractor shall be debarred from participating in the tender for executing balance work and any other work for IIMU.

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.4.25. Suspension of Work

(i) The Contractor shall, on receipt of the order in writing of the Owner/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, harm or injury to the Work already completed or endanger the safety thereof for any of the following reason:

- 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 Work(s) 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 as per Clauses in 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(s) 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(s) for- which a separate period of completion is specified in the contract exceeds thirty days, the Contractor shall, in addition to the compensation payable under the Contract 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 by adding thereto 2% to such compensation payable 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 Work(s) 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 as per Clause 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 intended to treat the suspension, where it affects only a part of the Works as an omission of such part by the Owner or where it affects whole of the Works, as an abandonment of the Works by the Owner, 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 the Owner, 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 Work in full, but which he could not derive in consequence of the abandonment. The Contractor shall, however, be entitled to such compensation, as the Engineer-in-charge may consider reasonable in respect of salaries and or wages paid to his employees and labour at site remaining idle in consequence by adding 2% to the total thereof to cover indirect expenses of the Contractor

provided the Contractor submits his claim supported by details to the Engineer-in-Charge within 15 days of the expiry of the period of 3 months.

Provided, further, that the Contractor shall not be entitled to claim any compensation from IIMU for the loss suffered by him on account of delay by IIMU in the supply of materials where such delay is covered by difficulties relating to the supply of wagons, force majeure including non-allotment of such materials by controlling authorities, acts of God, acts of enemies of the state/country or any reasonable cause beyond the control of the Owner.

Action in case work not done as per Specifications

All Works under or in course of execution or executed in pursuance of the Contract shall at all times be open and accessible to the inspection and supervision of the Engineer-in-charge, their authorized subordinates in charge of the Work and the Contractor shall at all times during the usual working hours and at all other times prior to a 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 Contractors 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 their authorized subordinates in charge of the Work(s), that any Work(s) has been executed with unsound, imperfect, or unskillful workmanship, or with materials or articles of inferior quality, to those contracted, the Contractor shall on demand in writing, which shall be made within six months of the completion of the Work by the Engineer-in-Charge, remove and reconstruct 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 Contractor and suitable materials or articles at his own charge and cost. In the event of 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 of the Contract (for non-completion of the work in time) for such 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 Engineer-in-Charge 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 remove and re-executed at the risk and cost of the same will be final and binding on the contractor.

CLAUSE.4.26. Contractor Liable for Damages/ Defects during defects liability period

In the event 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 curb, fence, enclosure, water pipe, cables, drains, electric or wires, trees, grass or grassland, or cultivated ground contiguous to the premises on which the Work any part is being executed, or if any damage shall happen to the Work while in progress, from any cause whatsoever, or if any defect, shrinkage or other faults appear in the Work within twelve months after a certificate final or otherwise of its completion has 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 by the Engineer-in-Charge make the same good at his own expense. In default of the Contractor to make such payments, the Engineer-in Charge shall cause the same to be made good by other workmen and deduct the expense incurred from any sums that may be due and payable to the Contractor either from the bills due and payable to the Contractor or from his security deposit. The security deposit of the contractor shall not be refunded before the expiry of twelve months after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later.

Provided that in the case of road work, if in the opinion of the Engineer-in-Charge, half of the security deposit is sufficient, to meet all liabilities of the contractor under this contract, half of the security deposit will be refundable after six months and the remaining half after twelve months of the issue of the said certificate of completion or till the final bill has been prepared and passed whichever is later.

In case of Maintenance and Operation works of E&M services, the security deposit deducted from contractors shall be refunded within one month from the date of final payment or within one month from the date of completion of the maintenance contract whichever is earlier.

CLAUSE.4.27. Contractor to provide tools & plants etc.

The contractor shall provide at his own cost all materials (except such special materials, if any, as may in accordance with the contract be supplied from the Owner), machinery, tools & plants as specified in Schedule-F. 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.4.28. 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, Owner is obliged to pay compensation to workman employed by the contractor, in execution of the works, Owner will recover from the contractor, the amount of the compensation so paid; and, without prejudice to the rights of the Owner under sub-section (2) of Section 12, of the said Act, Owner 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 Owner to the contractor whether under this contract or otherwise. Owner 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 Owner full security for all costs for which Owner might become liable in consequence of contesting such claim.

CLAUSE.4.29. 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, Owner 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, Owner 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 Owner under sub-section(2) of Section 20, and sub-section (4) of Section 21, of the Contract Labour (Regulation and Abolition) Act, 1970, Owner 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 Owner to the contractor whether under this contract or otherwise Owner 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 Owner full security for all costs for which Owner might become liable in contesting such claim.

CLAUSE.4.30. Labour Laws to be complied with, by the 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 attend to 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.

The contractor shall make provision for crèche for children of Labours working at site. Sufficient no of toys and play facilities along with required no of attended shall be made available.

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

Child Labour:

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

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 defined in the Contractor's Labour Regulations or as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) 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 Central Public Works Authority contractor's Labour Regulations made by Government from time to time in regard to payment of wages, wage period, deductions from wages recovery of wages not paid and deductions unauthorized made, maintenance of wage books or wage slips, publication of scale of wages and other terms of employment, inspection and submission of periodical returns and all other matters of the like nature or

as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970, and the Contract Labour (Regulation and Abolition) 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-fulfillment 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.

(v) The contractor shall comply with all the Central, State Laws & other statutory and regulatory provisions and Rules including but not limited to the provisions of the Payment of Wages Act, 1936, Minimum Wages Act 1948, Minimum Wages (Central) Rules, 1950, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, Child Labour (Prohibition and Regulation) Act, 1986 and the Contractor's Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and the rules made there under from time to time.

(vi) The contractor shall indemnify and keep indemnified Owner against payments to be made under and for the observance of the laws aforesaid.

(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 (head of the labour Gang) 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.

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.200/- for each default and in addition, the Engineer-in- Charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor.

The contractor shall submit 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:-

The number of Labourers employed by him on the work,

Their working hours,

The wages paid to them,

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

The number of female workers who have been allowed maternity benefit according to Clause and the amount paid to them.

Failing which the contractor shall be liable to pay to Owner, a sum not exceeding Rs.200/- 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 is binding on the contractor.

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 Owner from time to time for the protection of health and sanitary arrangements for workers employed by the contractors.

In the event of the contractor(s) committing a default or breach of any of the provisions of the Central Public Works Authority, 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 Owner a sum not exceeding Rs.200/- for every default, breach or furnishing, making, submitting, filing such materially incorrect statements and in the event of the contractor(s) defaulting continuously in this respect, the penalty may be enhanced to Rs.200/- per day for each day of default subject to a maximum of 5 per cent of the estimated cost of the work put to tender. The decision of the Engineer-in-Charge shall be final and binding on the parties.

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

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 sqm. (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 kutchra 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 package type STP plant of required capacity approved by engineer in charge for treating the sewage water and supply to the Owner free of cost for the use of gardening. The contractor will carry out maintenance of STP at his own cost. Contractor will 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.

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. Engineer in charge will display a list of contractors working in the colony/Blocks on the notice board in the colony and also at the service center, to apprise the residents about the same.

Occupation of Buildings by Unauthorized persons

It shall be the responsibility of the contractor to see that the building under construction is not occupied by anybody unauthorized 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 up to 5% of tendered value of work may be imposed by the Engineer in charge whose decision shall be final both with regard to the justification and quantum and be binding on the contractor. However, the Engineer in charge through a notice may require the contractor to remove the illegal occupation any time on or before construction and delivery.

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 Training Institute/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, it's 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.

CLAUSE.4.31. 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 there under and other labour laws affecting contract labour that may be brought into force from time to time.

CLAUSE.4.32. Work not to be sublet

The contract shall not be assigned or sublet without the written approval of the IIMU. 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 officer or person in the employ of Owner or any of its formally appointed consultants in any way relating to their 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 IIMU shall have power to adopt the course specified in Clause (when contract can be determined) hereof in the interest of Owner and in the event of such course being adopted, the consequences specified in the said Clause shall ensue.

CLAUSE.4.33. Compensation

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 Owner without reference to the actual loss or damage sustained and whether or not any damage shall have been sustained.

CLAUSE.4.34. Changes in firm's Constitution to be intimated

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

CLAUSE.4.35. Works to be executed under the Contract

All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the Engineer-in-Charge who shall be entitled to direct at what point or points and in what manner they are to be commenced, and from time to time carried on.

CLAUSE.4.36. Settlement of disputes & Arbitration

Except where otherwise provided in the contract, all questions and disputes relating to the meaning of the specifications, design, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the Work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or in relation to the contract, design, drawings, specification, estimates, instructions, orders or these conditions or otherwise concerning the Work or the execution or failure to execute the same whether arising during the progress of the Work or after the cancellation, termination, completion or abandonment thereof shall be dealt with as mentioned hereinafter

- (a) If the Contractor considers any Work demanded of him to be outside the requirements of the Contract, or disputes any drawings, record or decision given in writing by the Engineer-in-Charge or **if the Engineer in Charge considers any act or decision of the contract** on any matter in connection with or arising out of the contract or carrying out of the Work to be unacceptable he shall promptly within 15 days request the Owner in writing for written instruction or decision on such matters. Thereupon, the Owner shall give his written instructions or decisions within a period of one month from the receipt of the Contractor's letter.

If the Owner fails to give his instructions or decision in writing within the aforesaid period or if the Contractor is dissatisfied with the instructions or decision of the Owner, the Contractor may, within 15 days of the receipt of the Owner's decision, give notice to the Owner to appoint an Arbitrator failing which the said decision shall be final, binding and conclusive and not referable to adjudication by the Arbitrator. It is a term of contract that each party invoking arbitration must exhaust the aforesaid mechanism of settlement of claims/disputes prior to invoking arbitration.

- (b) **Disputes or difference shall be referred for adjudication through arbitration by a Tribunal having sole arbitrator where Tendered amount is Rs. 100 Crore or less. Where Tendered Value is more than Rs. 100 Crore, Tribunal shall consist of three Arbitrators as above. The requirements of the Arbitration and Conciliation Act, 1996 (26 of 1996) and any further statutory modifications or re-enactment thereof and the rules made there under and for the time being in force shall be applicable.**

It is a term of this Contract that the party invoking Arbitration shall give a list of disputes with amounts claimed there under in respect of each such dispute along with the notice for appointment of Arbitrator and giving reference to the rejection by the Owner of the appeal.

It is also a term of this contract that any member of the Arbitration Tribunal shall be a Graduate Engineer with experience in handling public works engineering contracts at a level not lower than Chief Engineer (Joint Secretary level of Government of India). This shall be treated as a mandatory qualification to be appointed as arbitrator.

Parties, before or at the time of appointment of Arbitral Tribunal may agree in writing for fast track arbitration as per the Arbitration and Conciliation Act, 1996 (26 of 1996) as amended in 2015.

Subject to provision in the Arbitration and Conciliation Act, 1996 (26 of 1996) as amended in 2015 whereby the counter claims if any can be directly filed before the arbitrator without any requirement of reference by the appointing authority, the arbitrator shall adjudicate on only such disputes as are referred to him by the appointing authority and give separate award against each dispute and claim referred to him and in all cases where the total amount of the claims by any party exceeds Rs. 1,00,000/-, the arbitrator shall give reasons for the award.

It is also a term of the contract that if any fees and other expenses are payable to the Arbitrator, these shall be paid as per the act.

The place of arbitration shall be as mentioned in Schedule F. In case there is no mention of place of arbitration, the arbitral tribunal shall determine the place of arbitration. The venue of the arbitration shall be such place as may be fixed by the Arbitral Tribunal in consultation with both the parties. Failing any such agreement, then the Arbitral Tribunal shall decide the venue.

CLAUSE.4.37. Contractor to indemnify Owner against Patent Rights

The contractor shall fully indemnify and keep indemnified the Owner 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 Owner 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 there from, provided that the contractor shall not be liable to indemnify the Owner 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.4.38. 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, 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.4.39. Withholding and lien in respect of sum due from contractor

(i) 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 may suggest Owner 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 may suggest Owner to withhold the security deposit, if any, furnished as the case may be and also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the contractor, the Owner 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 Owner 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 Owner will be kept withheld or retained as such by the Owner till the claim arising out of or under the contract is determined by the arbitrator or 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.

(ii) Owner 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 Owner 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 Owner to the contractor, without any interest thereon whatsoever.

Provided that the Owner 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 Engineer in Charge on the one hand and the contractor on the other under any term of the contract permitting payment for work after assessment by the Engineer in Charge.

CLAUSE.4.40. 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 Owner through Engineer-in-Charge against any claim of the Owner 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 Owner.

It is an agreed term of the contract that the sum of money so withheld or retained under this clause by the Owner will be kept withheld or retained as such by the Owner 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.4.41. Unfiltered Water Supply

Contractor shall make his/their own arrangements for water supply and storage at site(s)/ location(s) required for all purposes i.e. for construction, curing, drinking, washing, domestic requirement for workers etc. at no cost to owner. This will be subject to the following conditions.

That the water used by the contractor(s) shall be fit for construction purposes to the satisfaction of the Engineer-in-Charge.

The Engineer-in-Charge shall make alternative arrangements for supply of water at the risk and cost of contractor(s) if the arrangements made by the contractor(s) for procurement of water are in the opinion of the Engineer-in- Charge, unsatisfactory.

The Contractor shall permit all Sub-Contractors to use his water storage and distribution facilities for their respective Work. Any additional or special arrangements needed by Sub-Contractors shall be made by them at their own cost.

Upon completion of the Works, the Contractor shall remove temporary storage tanks, piping network built or installed on the site so as to restore the site back to its original condition.

Insufficiency or non-availability of water shall not be cited by the Contractor as an excuse for delays, or deficiencies in the Work or a reason for claiming extra payments.

The Contractor shall, in all eventualities incorporate in his costing for making arrangements with necessary approval from relevant authority if any for the water requirements to be used for construction at his own cost at the time of tendering.

CLAUSE.4.42. Electricity

The Owner shall not provide electrical power. Contractor has to arrange with necessary permission from relevant authority if any at his own cost electrical power for construction or for general lighting and other usage

The Contractor shall, at his own cost, provide approved temporary electrical connections, cables, distribution boards and related equipment for construction, as required by the Engineer-in-Charge.

The Contractor shall permit and enable all sub-Contractors to use his power & distribution facilities. The Sub-Contractor shall pay such amount for the use of power & distribution facilities as may be determined between the Contractors.

The Contractor shall, at his own cost and in order to prevent interruption of the Work(s) due to power failures, provide for stand-by diesel generators of sufficient capacity as per the requirements to supply adequate electricity for the Works and for other uses.

Disruptions in power supply, whether due to power failures, load shedding, generator breakdowns, non-availability of Electric Supply or any other reason, shall not be accepted as a valid reason for delays and deficiencies in the Work or for claims for additional payments.

The Contractor shall, at his own cost supply the required electrical power supplies to the Site offices of the Owner as directed by the Engineer-In-Charge.

CLAUSE.4.43. Return of Surplus materials

Notwithstanding anything contained to the contrary in this contract, where any materials for the execution of the contract are procured with the assistance of Owner either purchase made under orders or permits or licenses issued by Owner, the contractor shall hold the said materials economically and solely for the purpose of the contract and not dispose of them without the written permission of the Owner and return, if required by the Engineer-in-Charge, all surplus or unserviceable materials that may be left with him after the completion of the contract or at its termination for any reason whatsoever on being paid or credited such price as the Engineer-in-Charge shall determine having due regard to the condition of the materials. The price allowed to the contractor however shall not exceed the amount charged to him excluding the element of storage charges. The decision of the Engineer-in-Charge in this regard shall be final and conclusive. In the event of breach of the aforesaid condition, the contractor shall in addition to throwing himself open to action for contravention of the terms of the license or permit and/or for criminal breach of trust, be

liable to Owner for all moneys, advantages or profits resulting or which in the usual course would have resulted to him by reason of such breach.

CLAUSE.4.44. Employment of technical Staff and employees

Contractors Superintendence, Supervision, Technical Staff & Employees

(i) 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. Minimum requirement of such technical representative(s) and their qualifications and experience shall not be lower than specified in Schedule 'F'. The Engineer-in-Charge shall within 3 days of receipt of such communication intimate in writing his approval or otherwise of such a representative(s) to the contractor. Any such approval may at any time be withdrawn and in case of such withdrawal, the contractor shall appoint another such representative(s) according to the provisions of this clause. Decision of the Engineer-in-Charge shall be final and binding on the contractor in this respect. Such a principal technical representative and other technical representative(s) shall be appointed by the contractor soon after receipt of the approval from Engineer-in-charge and shall be available at site before start of work.

All the provisions applicable to the principal technical representative under the Clause will also be applicable to other technical representative(s) The principal technical representative and other technical representative(s) shall be present at the site of work for supervision at all times when any construction activity is in progress and also present himself/themselves, as required, to the Engineer-in-Charge and or his designated representative to take instructions. Instructions given to the principal technical representative or other technical representative(s) shall be deemed to have the same force as if these have been given to the contractor. The principal technical representative and other technical representative(s) shall be actually available and the decision of the Engineer-in-Charge as recorded in the site order book and measurement-recorded checked/test checked in Measurement Books shall be final and binding on the contractor. Further if the contractor fails to appoint suitable technical Principal technical representative and/or other technical representative(s) and if such appointed persons are not effectively present or are absent by more than two days without duly approved substitute or do not discharge their responsibilities satisfactorily, the Engineer-in-Charge shall have full powers to suspend the execution of the work until such date as suitable other technical representative(s) is/are appointed and the contractor

shall be held responsible for the delay so caused to the work. The contractor shall submit a certificate of employment of the technical representative(s) along with every on account bill/final bill and shall produce evidence if at any time so required by the Engineer-in-Charge at site fully during all stages of execution of work, during recording/checking/test checking of measurements of works and whenever so required by the Engineer-in-Charge and shall also note down instructions conveyed by the Engineer-in-Charge or his designated representative(s) in the site order book and shall affix his/their signature in token of noting down the instructions and in token of acceptance of measurements/checked measurements/test checked measurements. The representative(s) shall not look after any other work other than this project. Substitutes, duly approved by Engineer-in-Charge of the work in similar manner as aforesaid shall be provided in event of absence of any of the representative(s) by more than two days.

If the Engineer-in-Charge, whose decision in this respect is final and binding on the contractor, is convinced that no such technical representative(s) is/are effectively appointed or is/are effectively attending or fulfilling the provision of this clause, a recovery (non-refundable) shall be effected from the contractor as specified in Schedule 'F' and decision of the Engineer-in-Charge as recorded in the site order book and measurement recorded checked/test checked in Measurement Books shall be final and binding on the contractor.

(ii) 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 contractor shall provide and employ skilled, semiskilled and unskilled labour as is necessary for proper and timely execution of 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.4.45. Levy/Taxes payable by Contractor

(i) All statutory taxes, duties, Cess or any other payment or deduction due to be paid to any of the central, state or local authority including but not limited to GST, Building and other Construction Workers Welfare Cess or any other tax, levy or Cess in respect of input for or output by this contract shall be payable by the contractor and Owner shall not entertain any claim whatsoever in this respect except as provided under Clause 38.

(ii) The contractor shall deposit royalty and obtain necessary permit for supply of the of the red bajri, stone, kankar etc. required for the project from local authorities.

If pursuant to or under any law, notification or order any royalty, cess or the like becomes payable by the Government of India 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 Owner 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.4.46. Conditions for Reimbursement of levy/taxes if levied after receipt of tenders.

a) All tendered rates under the contract shall be inclusive of any tax, levy or cess application on last stipulated date of receipt of tender including extension if any. No adjustment i.e. increase or decrease shall be made of any variation in the rate of GST, Building or other Construction workers Welfare cess or any tax, levy or cess applicable on Inputs. However, effect of variation in rates of GST of Building and Other construction Workers Welfare Cess or imposition or repeal of any other tax, levy or cess applicable on output of the works contract shall be adjusted on either side, increase or decrease. Provided for Buildings 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. Provided further that such adjustment including GST shall not be made in the extended period of contract for which the contractor alone is responsible for delay as determined by authority for extension of time under Clause 5 of Schedule F.

b) The Contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and required, and shall allow inspection of the same by a duly authorized representative of the Owner and/or Engineer-in-Charge and shall also furnish such other information/document as the Engineer-in-Charge may require from time to time.

c) The Contractor shall, within a period of 30 days of the imposition of any such further 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.4.47. 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 Owner shall have the option of terminating the

contract without compensation to the contractor if there is no legal heir or successor of the contractor capable of completing the remaining work. The decision of the Engineer In charge in this regard shall be final and binding.

CLAUSE.4.48. Compensation during warlike situations

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 up to 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 by the Engineer in Charge. 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 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.4.49. 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 Engineer-in-Charge 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.4.50. Release of Security Deposit after labour clearance

Release of Security Deposit of the work shall not be refunded till the contractor produces a clearance deposit after labour certificate from the Labour Officer. 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. The Engineer-in-Charge, on receipt of the said communication, shall write to the Labour Officer to intimate if any complaint is pending against the contractor in respect of the work. If no complaint is pending, on record till after 3 months after completion of the work and/or no communication is received from the Labour Officer to this effect till six months after the date of completion, it will be deemed to have received the clearance certificate and the Security Deposit will be released if otherwise due.

SECTION 5
SPECIAL CONDITIONS OF CONTRACT

CLAUSE.5.1. Sub-Contractors

Where and when the appointment of specialist Sub-Contractors is indicated, such Sub-Contractors shall be appointed only with the prior written approval of the Owner upon recommendation of Engineer-in-Charge/Design Consultant on the following conditions:-

- (A) The Contractor shall enter into written agreements with Sub-Contractors and ensure that the Sub-Contractors perform their Work in accordance with and subject to the terms and conditions of these Contract Documents. A copy of each such Agreement shall be furnished to the Engineer-in-Charge and the Owner.
- (B) The Contractor shall remain fully responsible to the Owner for the performance and workmanship and all actions of all sub-Contractors and persons directly or indirectly employed by them.
- (C) The Contractor shall supply and permit all Sub-Contractors to avail of site facilities and services to enable them to complete their Work safely and without hindrance or delay and conducive to produce the highest quality of Work required.
- (D) The Contractor shall upon receipt of instruction from the Engineer-in-Charge, terminate and remove from site forthwith such Sub-Contractor or their person who's Work may be considered unsatisfactory.
- (E) The Contractor shall make regular and prompt payment to each Sub-Contractor not later than one week after receipt of payment from Owner for their measured Works certified by the Engineer-in-Charge. If the Contractor fails to make payments to Sub-Contractors as aforesaid, the Owner may, without any obligation or prejudice to its rights and with prior intimation to the Contractor may make direct payments to Sub-Contractors for and on behalf and from the account of the Contractor and recover such sums from the account of the Contractor out of the amounts due and payable under the bills raised by the Contractor. Such direct payments to Sub-Contractors shall be on behalf of the Contractor and shall in no way relieve the Contractor of his responsibilities or create a contractual relationship between the Owner and Sub-Contractor.
- (F) Any Subcontractor that has been approved by the Owner shall neither be removed nor replaced without the prior written consent of the Owner.

CLAUSE.5.2. Nominated Sub-Contractors

The Owner shall be entitled to nominate to the Contractor selected Sub-Contractors for carrying out certain sections of the Work or to replace terminated Sub-Contractors. Such nominated Sub-Contractors shall receive the same assistance and co-operation from the Contractor as other Sub-Contractors appointed by the Contractor, and the Contractor shall be equally responsible and liable for their Work as is liable for the Works of the other Sub-Contractors. Nominated Sub-Contractors shall enter into direct agreements with the Owner and shall receive direct payments from the Owner. For the site facilities and services made available by the Contractor at his cost to the nominated Sub-Contractors including free water, electricity, insurance, staging, scaffolding, etc. the Contractor shall be entitled to receive 3% on the cost of the nominated Sub-Contractors' Work.

Nothing shall absolve the Contractor, including the approval/ termination/ nomination of Sub-Contractors by the Owner of his overall responsibility under the Contract to closely supervise the Work of the Sub-Contractor whether on or off the site and to ensure adherence to the Specifications and Schedules.

CLAUSE.5.3. Site office

The Contractor shall at his cost provide a watertight, air-conditioned, lockable site office with necessary communication facilities at a suitable location as approved by the Engineer-in-charge for the purpose and use by the Owner, Design Consultant, Project Management Consultant and/or their authorized representative(s). The site-office shall be reasonably well furnished and to the preference and tastes of the Owner along with electricity and a telephone connection, Internet Connections at no extra cost payable to the Contractor by the Owner in this regard.

CLAUSE.5.4. Fossils:

All fossils, coins, articles of value or antiquity and structures and other remains or things of geological or archaeological interest discovered on the Site shall, as between the Owner and the Contractor, be deemed to be the absolute property of the Owner. The Contractor shall take reasonable precautions to prevent his workmen or any other persons from removing or damaging any such article or thing and shall, immediately upon discovery thereof and before removal, acquaint the Engineer of such discovery and carry out the Engineer's instructions for dealing with the same. If, by reason of such instructions, the Contractor suffers delay and/or incurs costs then the Engineer shall, after due consultation with the Owner and the Contractor, determine:

CLAUSE.5.5. Insurance

The Contractor shall at his own expense arrange for all insurance policies, including workmen compensation policy and Contractor's All Risk policy (CAR Policy) in the amount of the Contract effective from the date of commencement of Work(s) and until final completion of the Work(s) also taking into consideration the defects liability period, against all of the following risks.

- (A) *Injuries and damage of persons, property, machinery, equipment, vehicles, animals or things, within or outside the site, arising out of his operations or of any sub-Contractors, nominated or otherwise, or out of any actions of his employees, agents or representatives, limited to Rs. 20,00,000 (Rupees Twenty Lakhs) per accident*
- (B) *Injuries to his or any Sub-Contractor's employees.*
- (C) *Damage to or loss of the property, equipment, and materials at site, of the Owner, Contractor and all Sub-Contractors, as a result of natural causes such as lightning, storm, flood, rain, fire, earthquake, explosion, landslide, etc.*
- (D) *Damage and injuries to persons, property and materials arising out of riot and civil commotion, theft, sabotage malicious acts, terrorist activities, flood, water logging etc.*

The insurance policy or policies to cover risks of every nature shall be in the joint names of the Owner and Contractor, and the original of such policy/ policies shall be lodged with the Engineer-in-Charge. The Contractor shall also lodge the premium receipts with the Engineer-in-Charge, such standing jointly in the names of the Owner and the Contractor.

If the Contractor fails to arrange the requisite insurance or fails to renew the policies, the Owner shall arrange for obtaining the requisite insurance policies and or renew them and recover the cost of all premiums from the Contractor and/or subsequently deduct such amount from the payments due and payable by the Owner to the Contractor from the bills raised by the Contractor in respect of the Work(s) executed.

No certificate of payment shall be issued by the Engineer-in-Charge whether for an interim or of the final bill raised by the Contractor if the Contractor fails to arrange for total insurance cover.

The Contractor shall reinstate in a manner approved by the Engineer-in-Charge all damage of every sort caused entirely at his cost so as to deliver up to the Owner the whole of the Work(s) complete and perfect in all respects, and so certified by the Engineer-in-Charge and also make good or otherwise satisfy all claims for damage to property of third parties.

The Contractor shall be responsible for anything within his control and for all risks and consequences, which are not included in the purview of the insurance policies.

The insurance cover shall stand extended until final completion of the Works and the contract and shall also cover the defects liability period.

The Contractor undertakes not to cancel any insurance policy nor reduce its scope without the written consent of the Engineer-in-Charge.

The Contractor undertakes to file necessary insurance claims jointly with the Owner and also to join the Owner in filing any claim the Owner chooses to.

Payments against all insurance claims shall be received in the name of the Owner and commensurate adjustments shall be made in accounts with the Contractor.

The aforesaid insurance policy/policies shall not be cancelled till the Engineer-in-Charge has agreed to their cancellation.

The Contractor shall prove to the Engineer-in-Charge from time to time that it has taken out all insurance policies referred to above and has paid the necessary premium for keeping the policies alive till the end of the defects liability period.

The Contractor shall ensure that similar insurance policies are taken out by his Sub-Contractor (if any) and shall be responsible for any claims of losses to the Owner resulting from their failure to obtain adequate insurance protections in connection thereof. The Contractor shall also obtain the originals of the policies and the premium receipts from the Sub-Contractor and shall lodge the same with the Engineer-in-Charge.

CLAUSE.5.6. Protection of Persons, Works and Property Accident or Injury to Workmen

The Owner shall not be liable for or in respect of any damages or compensation payable to any workman or other person in the employment of the Contractor or any Subcontractor, other than death or injury resulting from any act or default of the Owner, his agents or servants.

Accident Prevention:

(A)General:

In performing this contract, the Contractor shall provide for protecting the lives and health of employees and other persons preventing damage to or theft or loss of property, materials, supplies, and equipment; and avoiding Work interruptions. For these purposes, the Contractor shall- Provide appropriate safety barricades, signs, and signal lights.

Comply with the standards issued by any statutory bodies having jurisdiction over occupational health and safety and Ensure that any additional measures as required by the Engineer-in-Charge for this purpose.

(B) Records.

The Contractor shall maintain an accurate record of exposure data on all accidents taken place incidental to performance of Work(s) under this contract resulting in death, traumatic injury, occupational disease, or damage to or theft / loss of property, materials, supplies, or equipment. The Contractor shall report this data in the manner prescribed by the Engineer-in-Charge.

(C) Sub-Contractors:

The Sub-Contractors shall be bound to comply with the clause in the same manner as complied with by the Contractor. In the event of non-compliance by the Sub-Contractor of such clause, the Contractor shall be responsible for compliance of the Sub-Contractor.

(D) Written program:

Before commencing the Work, the Contractor shall submit to the Engineer-in-Charge a written proposal for implementing this clause,

Hazardous Material Identification.

(A) Notification:

The Contractor shall notify the Engineer-in-Charge in writing of all hazardous material 5 days before delivery of the material. This obligation applies to all materials delivered under this contract, which will involve exposure to hazardous materials or items containing these materials.

(B) Responsibility of Contractor:

Neither the requirement of this clause nor any act or failure to act by the Owner shall relieve the Contractor of any responsibility or liability for the safety of Owner, Contractor, or Sub-Contractor's personnel or property.

(C) Compliance with laws:

The Contractor shall comply with applicable laws, including the Public Liability Insurance Act 1991, Fatal Accident Act 1855, codes, ordinances, and regulations (Including the obtaining of licenses and permits) in connection with hazardous materials. Contractor shall pay fees and other expenses for obtaining such permission or licenses.

(D) Sub-Contractors:

The Contractor shall insert these above clauses, relating to hazardous material, with appropriate changes on entering into contracts or agreements with Sub-Contractors and the sub-contractors shall be bound and be liable to comply with the same, and in

the event of non-compliance of the same, the Contractor shall be held liable for damages or otherwise on the acts of the Sub-Contractor in this regard.

Protection of Property

1. Vegetation, structures and equipment:

The Contractor shall preserve and protect all structures, equipment, and vegetation on or adjacent to the Work site, and which do not unreasonably interfere with the Work required under this contract and shall not be removed by the Contractor. The Contractor shall only remove trees when specifically authorized to do so, and shall avoid damaging vegetation that will remain in place.

2. Utilities and improvements:

The Contractor shall protect from damage and have all existing improvements and utilities at or near the Work site and on adjacent property of a third party, the locations of which are made known to or should be known by the Contractor. The Contractor shall be liable to repair any damage caused to those facilities, including those that are the property of a third party, resulting from failure to comply with the requirements of this contract or failure to exercise reasonable care in performing the Work. If the Contractor fails or refuses to repair the damage promptly, the Engineer-in-Charge may have the necessary Work performed and charge the cost to the Contractor or reduce such amounts from the bills of the Contractor due and payable by the Owner.

3. Contractor shall be required to work within specified areas and they shall be allowed to use only those areas around the works under their scope, for storage of their materials, construction of site offices, erection of batching plant etc. at predetermined locations as shown on the plans. The area so demarcated, shall be barricaded in such a way that the construction activities or the moving vehicular traffic involved in carriage of construction materials/ construction waste etc. do not create interference with any other areas within the premises or activities of the Institute or the activities of other contractor/s working within the premises.

4. The contractor shall provide suitable barricading approximately 2.0 m high, with suitably painted with three rows of G.I. Sheets about 2'-6" to 3'-0" wide (75 cms to 90 cms.) nailed or bolted with wooden poles spaced 2 to 3 meter apart and each pole 1.6 m to 2 m long 8 cm. to 10 cm. dia. The poles will be embedded in mobile iron pedestal rings suitably framed for giving stable support as per direction of the Engineer-in-charge. All management (including watch and ward) of barricades shall be the full responsibility of the contractor. The barricades shall be removed only after completion of the work or part of the work. The contractor's rate shall include all above items of work and nothing extra shall be paid to the contractor over and above his quoted rates.

5. The positioning of barricading will be reviewed from time to time and necessary shifting barricading as directed by Engineer - in - charges shall be done forthwith by the contractor. Payment of initial erection of barricading and the shifting thereof at a later date as per requirement shall be made under relevant tender items
6. Contractor will make his own arrangements for making temporary roads and approaches to various locations of work under their scope and up to disposal sites marked on the drawing. These internal approaches and temporary roads shall be made in such a way that they do not affect construction activities of permanent roads within the premises at any time.

Watchmen and Security

The Contractor shall provide sufficient personnel and materials to provide adequate protection to the property and personnel at the site, in transit and stored goods/materials including but not limited to measures specifically required by and under the Contract Documents and any security requirements under this contract.

Corrective Action

(A) Authority to Stop Work:

The Engineer-in-Charge shall notify the Contractor of any non-compliance with the safety and property protection measures as required under this contract of which the Engineer-in-Charge becomes aware and of the corrective action required. This notice, when delivered to the Contractor or the Contractor's authorized representative at the site of the Work shall be deemed sufficient notice of non-compliance and corrective action required. After receiving the notice, the Contractor shall immediately take necessary steps to correct the action. If the Contractor fails or refuses to take corrective action promptly, the Engineer-in-Charge shall at his discretion after due consultation with the Owner may issue an order stopping all or part of the Work(s) until satisfactory corrective action has been taken. The Contractor shall not base any claim or request for equitable adjustment for additional time or money on any stop Work order issued under these circumstances.

(B) Rectification:

The Contractor shall be solely responsible to make good at his cost any damage to the Works, property of the Owner and/or any adjacent property, to the satisfaction of the Engineer-in-Charge. In case the contractor fails to do so within a reasonable time the Engineer-in-Charge shall get the same executed at the risk & cost of the contractor & deduct the same from his due payments.

CLAUSE.5.7. Site Security:

The Contractor shall be deemed to be in possession of the Works site and shall be responsible for its total security, and shall ensure that all materials, sheds, equipment, plant, tools, etc; whether his own or belonging to any Sub-Contractor, are well protected.

(A) The Contractor shall at his own cost install and maintain sufficient security fences and gates and employ full time round-the-clock security personnel to prevent the Works site from and against the intrusion of the public or any other unauthorized persons or vehicles.

(B) Total security of the site, property, and materials shall be the sole responsibility of the Contractor. The presence of his consultants representatives, or the IIMU's security personnel shall in no way relieve or absolve the Contractor of his responsibilities in ensuring the security and protection of the site and everything stored or lying thereon

CLAUSE.5.8. Warranty/Guarantee

The Contractor shall be responsible for the proper performance of the Work(s), including installations and systems, as specified under the Contract Documents.

Subject to Clause the Contractor shall, at his own cost and in the shortest possible time, repair and remove any defect or deficiency in the Works, which may appear prior to or during the defect liability period, to the satisfaction of the Engineer-in-Charge.

A guarantee will be given by the Contractor for the complete installation of the Works including its functioning, replacement of parts etc. as specified under the Contract Documents.

All the Guarantees referred above shall commence from the date of Completion Certificate.

CLAUSE.5.9. Contractor's Responsibilities and Work Control

The Contractor shall have complete control of the Works and shall effectively and diligently control, direct and supervise his employees, supervisors, subordinates and Sub-Contractor(s) so as to ensure timely completion of the Works in order and in conformity with the Contract Documents. It shall be the sole responsibility of the Contractor for construction means, methods, techniques, sequences and procedures, and for coordinating the various parts of the Work, whether carried out by the Contractor or any Sub-Contractor.

The Contractor shall provide adequate, qualified and experienced personnel for the proper superintendence and execution of the Works until completion. The category and strength of such personnel shall be determined by the Engineer-in-Charge, and such approved site organization strength shall be maintained by the Contractor at all times until completion

of Work(s), and also during defects liability period and as may be decided by the Engineer-in-Charge.

The Contractor shall be responsible for the design, erection, operation, maintenance and removal of temporary structures and other facilities at his own cost during completion of the Works. Any approval sought, given or implied, regarding sufficiency, stability and safety of temporary staging and facilities, shall in any way not relieve the Contractor of his responsibility.

(A) The Contractor shall study all Contract Documents and promptly report to the Engineer-in-Charge any non-conformity, discrepancy, inconsistency or omission he may discover in the same. In the event of such discovery, the Contractor shall not proceed with the affected Works until he has received due corrections and clearances from the Engineer-in-Charge.

(B) The Contractor shall be deemed to have thoroughly studied and satisfied himself regarding Contract Documents and particularly all drawings before commencement of the Work(s). Should any discrepancy or error be discovered during execution of parts of the Work(s) necessitating demolition, repairs or reconstruction, all such remedial measures shall be carried out only with the approval of the Engineer-in-Charge and entirely at the cost of the Contractor. In such an event the Contractor shall neither claim any extra payment nor any extension of time for any delay caused by virtue of such demolition, repairs and reconstruction.

Any instructions given to the Contractor's supervisory staff by the Engineer-in-Charge shall be deemed to have been given to the Contractor. Instructions that involve any variations in design or specifications and which may have a bearing on time and cost shall be through a written Change Order by the Engineer-in-Charge and at rates agreed in writing prior to implementation

The Contractor shall at his own cost, obtain any permits or authorizations necessary for the execution of the Work and obtaining any permits or approvals for the works executed by him, from all concerned statutory and Owner Authorities/ Authority's, including but not limited to Municipal bodies, Electrical Authority, Fire Service Authorities etc,

The Contractor shall not be entitled to claim additional sums on account of having to work overtime in order to complete an operation that cannot be interrupted, for working in extended shifts / night shifts / holidays.

In the event the Contractor chooses to work overtime, in extended night shifts as and by way of overtime either by working extended/night shifts or morning or holidays in order to complete the Work(s) within the specified period or on holidays, he shall do so by obtaining prior written approval from the Engineer-in-Charge at least twenty-four hours in advance. The Contractor moreover shall ensure that in any of

the above circumstances he maintains the full-agreed strength of his supervisory staff.

The Contractor shall take all necessary precautions to protect the site and Works, materials, plant and equipment, whether his own or belonging to the Owner or any Sub-Contractors, against hazards of fire, rains, floods, landslides, underground water, accidents, etc.

The Contractor shall not be permitted to replace nor remove his Project Manager/Project Engineer / Site Engineer etc. from the site without the prior written approval of the Engineer-in-Charge.

Submittals

- (C) "Shop drawings" means those drawings or other documents, which are specifically prepared by or on behalf of the Contractor to illustrate details of construction for the purpose of fabrication or installation and are submitted to the Owner to indicate the Contractor's intended method of achieving the end result required by the Contract Drawings and Specifications.
- (D) "Project data" includes standard drawings, diagrams, layouts, schematics, descriptive literature, illustrations, schedules, performance and test data, and similar materials furnished by the Contractor to explain in detail specific portions of the Work required by the Contract.
- (E) "Samples" are physical examples, which illustrate materials, equipment or workmanship and establish standards by which the Work will be judged.
- (F) "Other submittals" includes progress schedules, setting drawings, testing and inspection reports, and other information required by the Contract Documents to be submitted by the Contractor for information or approval by the Owner.

Schedules of Submittals

Promptly after contract award the Contractor shall submit to the Engineer-in-Charge the submittal schedule showing when shop drawings, product data, samples and other submittals required by and under the Tender Documents would be submitted for the approval of the Engineer-in-Charge.

Review and approval of submittals by Contractor

The Contractor shall co-ordinate and compile all submittals required by and under the Contract Documents, and thoroughly check them for accuracy, completeness, and compliance in accordance with contract requirements and shall indicate his approval thereon in the form required by the Contract Documents as evidence of such co-ordination and checking. Submittals to the Engineer-in-Charge without the approval of the Contractor shall be returned by the Engineer-in-Charge for resubmission. Submission of shop drawings, product data or samples shall constitute a representation that the Contractor has

agreed to, asserted and guaranteed that the assemblies, products or materials indicated therein will be available in a timely manner and in the quantities required for the project as set out under the Contract Documents.

Submission

All submittals shall be in English language, and any system of dimensions (i.e.; English or metric) shown shall be consistent with that used in the Contract Documents. The Contractor shall submit all Submittals in the form and number required by the Contract Documents within required time limits and sufficiently in advance of construction requirements to permit adequate review by the Owner for correction, approval and resubmission if required. No extension of time shall be allowed on account of any delay by the Owner in approving such submittals, if the Contractor has failed to act promptly and responsively in making his submissions. Each submittal shall be identified as required by the Contract Documents.

Action on Submittals

The Engineer-in-Charge will indicate an approval or disapproval of the Submittals for and on behalf of the Owner requiring approval by the Owner and if not approved as submitted shall indicate the Owner's reasons thereof. Approval by the Engineer-in-Charge shall not relieve the Contractor from responsibility for any errors or omissions in his submittals, nor from responsibility for complying with the requirements of this contract, except with respect to variations described by the Contractor and approved in accordance with "Variations in Submittals" Clause. The approval of the Engineer-in-Charge on the submittals will be for general compliance with the intent of the Contract Documents and with the information given therein, and shall not be construed

- (A) As permitting any departure from the contract requirements
- (B) As relieving the Contractor of responsibilities for any error including details, dimensions, materials, etc and
- (C) As approving departures from details appearing on Contract 'Drawings and Specifications.

Where approval of Submittals is required, the Contractor shall perform the Work in accordance with such approved Submittals. Any Work performed by the Contractor prior to such approval by the Engineer-in-Charge shall be at the sole risk and liability of the Contractor.

Variation in Submittals

If Submittals contain any variations from the contract requirements, other than those requested on previous submittals, the Contractor shall specifically describe such variations in writing and the reasons thereof to the Engineer-in-Charge. If the approval of any such

variation affects the Contract Price or the Completion time of the Contract, the Engineer-in-Charge shall issue an appropriate Contract modification. Otherwise, the variation may be approved by the Engineer-in-Charge, only by specific reference thereto in writing. The Contractor shall not be entitled to rely on general approval of a submittal as an approval of variations of requirements of the Contractor. If the Contractor fails to describe such variations and shall not be relieved from the responsibilities of executing the Work in accordance with the contract, notwithstanding a general approval of such submittals. Nothing contained herein shall relieve the Contractor of the responsibility of notifying the Engineer-in-Charge of any part of the Contract Drawings or Specifications, which the Contractor knows or reasonably should have known which could result in defects under construction.

Use of submittals

The Owner may duplicate, use, and disclose in any manner and for any purpose shop drawings, product data and other submittals delivered under this contract.

Placement of Orders

The Contractor shall place orders for items requiring a sample or product data submittal promptly after receiving the written approval of the submittal by the Engineer-in-Charge. No such materials or products shall be ordered or used in the Work until such written approval by the Engineer-in-Charge has been given. In the event such materials or products pre ordered or used in the Works without the written approval of the Engineer-in-Charge, the same shall be at the risks, consequences, liability and costs of the Contractor.

Use and testing of samples

(A) Use:

Approved samples not destroyed in testing will be sent to Engineer-in-Charge. Those samples, which are in good condition, will be marked for identification and may be used in the Works. Materials and equipment incorporated in the Work shall match the approved samples within any specified tolerances. Other samples not destroyed in testing nor approved will be returned to the Contractor at the expense of the Contractor if so requested at the time of submission.

(B) Failure of samples to pass specified tests:

Failure of any material to pass the specified tests will be sufficient cause for refusal to consider, under this contract, any further samples of the same brand or make of that material or equipment which previously has proved unsatisfactory in service.

(C) Taking and testing of samples:

Samples of various materials or equipment delivered on the site or in place may be taken by the Engineer-in-Charge for additional testing by the Owner outside of those found not to have met contract requirements, unless the Engineer-in-Charge determines it to be in the Owner's interest to accept the non-conforming materials or equipment with an appropriate adjustment of the Contract Price/Value as determined by the Engineer-in-Charge.

(D) Cost of additional testing:

Unless otherwise specified, when additional tests are made, only one test of each set of sample proposed for use will be made at the expense of the Contractor. Samples, which do not meet contract requirements, will be rejected. Further testing of additional samples, if required, will be made at the expense and costs of the Contractor.

CLAUSE.5.10. Co-operation with other contractors/specialized agencies/sub-contractors

5.10.1 The Contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupants of the adjacent properties and to the public in general. The Contractor shall take all care, as not to damage any other adjacent property or other services running adjacent to the plot. If any damage is done, the same shall be made good by the Contractor at his own cost and to the entire satisfaction of the Engineer-in-Charge. The Contractor shall use such methodology and equipment for execution of the work, so as to cause minimum environmental pollution of any kind during construction, to have minimum construction time and minimum inconvenience to road users and to the occupants of the buildings on the adjacent plot and public in general, etc. He shall make good at his own cost and to the entire satisfaction of the Engineer in Charge any damage to roads, paths, cross drainage works or public or private property whatsoever caused, due to the execution of the work or by traffic brought thereon, by the Contractor. Further, the Contractor shall take all precautions to attend by the environmental related restrictions imposed by Govt. of Rajasthan as well as prevent any pollution of streams, ravines, river bed and waterways. All waste or superfluous materials shall be transported by the Contractor, entirely to the satisfaction of the Engineer-in-Charge. Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the occupants / users of adjoining buildings. No claim what so ever on account of site constraints mentioned above or any other site constraints, inadequate availability of skilled, semi-skilled or unskilled workers in the near vicinity, non-availability of construction machinery spare parts and any other constraints not specifically stated here, shall be entertained from the Contractor. **Therefore, the Tenderers are advised to visit site and get first-hand information of site constraints.** Accordingly, they should quote their tenders. Nothing extra shall be payable on this account.

5.10.2 The Contractor shall cooperate with and provide the facilities to the sub-Contractors and other agencies working at site for smooth execution of the work. The contractor shall indemnify the Owner against any claim(s) arising out of such disputes. The Contractor shall:

- (i) Allow use of scaffolding, toilets, sheds etc.
- (ii) Properly co-ordinate their work with the work of other Contractors.
- (iii) Provide control lines and benchmarks to his Sub-Contractors and the other Contractors.
- (iv) Provide electricity and water at mutually agreed rates.
- (v) Provide hoist and crane facilities for lifting material at mutually agreed rates.
- (vi) Co-ordinate with other Contractors for leaving inserts, making chases, alignment of services etc. at site.
- (vii) Adjust work schedule and site activities in consultation with the Engineer-in-Charge and other Contractors to suit the overall schedule completion.
- (viii) Resolve the disputes with other Contractors/ sub-contractors amicably and the Engineer-in-Charge shall not be made intermediary or arbitrator.

5.10.3 The work should be planned in a systematic manner so as to ensure proper co-ordination of various disciplines viz. sanitary & water supply, drainage, rain water harvesting, electrical, and firefighting, information technology, communication & electronics and any other services.

5.10.4 Other agencies will also simultaneously execute and install the works of sub-station / generating sets, air-conditioning, lifts, etc. for the work and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings trenches etc. as may be required for such related works (for which inserts, sleeves, brackets, conduits, base plates, clamps etc. shall be supplied free of cost by the Owner unless otherwise specifically mentioned) and the contractor shall fix the same at time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.

5.10.5 The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-In-Charge and shall as far as possible arrange his work and shall place and dispose of the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and in a proper co-ordination manner and shall perform it in proper sequence to the complete satisfaction of others.

CLAUSE.5.11. RATES

- 5.11.1** The rates quoted by the Contractor are deemed to be inclusive of site clearance, setting out work, profile, setting lay out on ground, establishment of reference bench mark(s), installing various signage, taking spot levels, survey with total station, construction of all safety and protection devices, compulsory use of helmet and safety shoes, and other appropriate safety gadgets by workers, imparting continuous training for all the workers, barriers, preparatory works, construction of clean, hygienic and well ventilated workers housings in sufficient numbers as per drawing supplied by Engineer in charge, working during monsoon or odd season, working beyond normal hours, working at all depths, height, lead, lift, levels and location etc. and any other unforeseen but essential incidental works required to complete this work. Nothing extra shall be payable on this account and no extension of time for completion of work shall be granted on these accounts.
- 5.11.2** The rates quoted by the tenderer, shall be firm and inclusive of all taxes and levies as applicable (including works contract tax and GST).
- 5.11.3** No foreign exchange shall be made available by the Owner for importing (purchase) of equipment, plants, machinery, materials of any kind or any other items required to be carried out during execution of the work. No delay and no claim of any kind shall be entertained from the Contractor, on account of variation in the foreign exchange rate.
- 5.11.4** All ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, temporary ramp required to be made for working at the basement level, temporary structure for plants and machineries, water storage tanks, installation and consumption charges of temporary electricity, telephone, water etc. required for execution of the work, liaison and pursuing for obtaining various No Objection Certificates, completion certificates from local bodies etc., protection works, testing facilities / Laboratory at site of work, facilities for all field tests and for taking samples etc. during execution or any other activity which is necessary (for execution of work and as directed by Engineer-in-Charge), shall be deemed to be included in rates quoted by the Contractor, for various items in the schedule of quantities. Nothing extra shall be payable on these accounts. Before start of the work, the Contractor shall submit to the Engineer-in-Charge, a site / construction yard layout, specifying areas for construction, site office, positioning of machinery, material yard, cement and other storage, steel fabrication yard, site Laboratory, water tank, etc.
- 5.11.5** For completing the work in time, the Contractor might be required to work in two or more shifts (including night shifts). No claim whatsoever shall be entertained on this account, not with-standing the fact that the Contractor may have to pay extra amounts for any reason, to the Labourers and other staff engaged directly or

indirectly on the work according to the provisions of the labour and other statutory bodies regulations and the agreement entered upon by the Contractor with them.

5.11.6 All material shall only be brought at site as per program finalized with the Engineer-in-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.

5.11.7 Rate shall including of Liaison work required, if any, in this regard with the local bodies. Nothing extra shall be payable on this account. Statutory charges, fees etc. required to be paid to the local bodies in this connection shall only be payable by the Owner or shall be reimbursable to the contractor on production of proof of actual payment made by him.

5.11.8 It is clarified that the contractor shall be responsible for obtaining all the no objection certificate (NOCs) and relevant licenses for services like lift installation, electrical installation, fire installation and like. Nothing extra shall be payable on this account.

CLAUSE.5.12. Inspection and rectification of Works

Access:

The Owner and their authorized agents and representatives shall at all times have access to the site and other locations where parts of the Work are under preparation.

Contractor tests:

The Contractor shall notify the Engineer-in-Charge well in advance, of tests and inspections to be carried out, and shall obtain his written approval wherever so stipulated before proceeding with the Works.

Inspections:

The Contractor shall maintain an adequate inspection system and perform such inspections from time to time as will ensure that the Work called for by this contract conforms to contract requirements and does not result in any deviation. The Contractor shall maintain complete inspection records and make them available to the Owner. All Work shall be conducted under the general direction of the Contractor and is subject to Owner's inspection and test at all places and at all reasonable times before final completion and acceptance with a view to ensure strict compliance with the terms and conditions of the contract.

Owner's inspections and tests:

Inspections and tests conducted by or on behalf of the Owner are for the sole benefit of the Owner and do not:-

(A) *Relieve the Contractor of responsibility for providing adequate quality control measures,*

- (B) *Relieve the Contractor of responsibility for damage to or loss of the material before final completion and acceptance of the Work;*
- (C) *Constitute or imply acceptance. Or.*
- (D) *Affect the continuing rights of the Owner after acceptance of completed Work.*

Owner inspectors:

The presence or absence of a Owner's inspector does not relieve the Contractor from any of the obligations under the contract nor is the inspector authorized to change any term or condition of the contract.

Performance of inspections and tests:

The Contractor shall promptly furnish, without an additional charge all facilities, labour, and material reasonably needed for performing such safe and convenient inspections and tests as may be required by the Engineer-in-Charge as per the terms of the Contract. The Owner may charge to the Contractor any additional cost of inspection or testing when work is not ready at the time specified by the Contractor for inspection or testing, when prior rejection makes re inspection or retesting necessary. The Owner shall perform all its inspections and tests in a manner that will not unnecessarily delay the work. Special, full size, and performance tests shall be performed as described in the Contract Documents.

The Contractor shall be solely responsible for the protection of all finished surfaces and Works so as to avoid any repairs and shall deliver to the Owner upon final completion the Works free of any blemish, defect or damage.

5.12.1 In addition to the provisions of relevant clauses of the contract, the work shall also be open to inspection by the other agency as and when required by IIMU in addition of the Engineer-in-charge and his authorized representative. The contractor shall at times during the usual working hours and at all times at which reasonable notices of the intention of the Engineer-in-charge to visit the works shall have been given to the contractor, either himself be present to receive the orders and instructions or have a responsible representative duly accredited in writing, to be present for that purpose.

5.12.2 Inspection of the work by Design consultants appointed by the IIMU.

- (i) The design consultant appointed by IIMU shall be inspecting the works frequently to ensure that the works are in general being executed according to the design, drawings and specifications laid down in the contract.

- (ii) The design consultant appointed by IIMU shall certify on completion of particular building that it has been constructed according to the approved drawings design and specifications.

CLAUSE.5.13. Rejected Work

The Design Consultant and/or Engineer-in-Charge/or Owner shall be authorized to reject any Work, which in their/his opinion is not in conformity to the specifications set out in the Contract Documents. The decision of the Design Consultant /Engineer-in-Charge in this regard shall be final and binding on the Contractor.

Defective Work whether caused due to poor workmanship, use of sub-standard materials, or on account of damage or for any other reason whatsoever, whether caused by the Contractor and/or the Sub-Contractor may be rejected by the Design Consultant/Engineer-in-Charge and shall be demolished by the Contractor and removed promptly from the site and replaced or re-executed expeditiously by the Contractor at his own cost. The Owner, Design Consultant and the Engineer-in-Charge shall in no event be responsible to bear any costs/liability arising on account of such defective workmanship.

If in the opinion of the Engineer-in-Charge/ Design Consultant, it is not expedient nor feasible to correct the defective Work, the Owner shall be entitled to deduct from monies due to the Contractor, the difference in value between the executed Work and that required under the Contract, such amount of which shall be determined by the Engineer-in-Charge in due consultation with the Owner.

CLAUSE.5.14. Limit of price Adjustment

Provided that, in determining all such price adjustment in accordance with the aforesaid sub-clauses:

- (A) No account will be taken of any amount by which any cost incurred by the contractor has been increased by default or negligence of the contractor.
- (B) If the contractor fails to complete the work within time for completion, increase or decrease of cost of specified materials shall be made using either the indices or prices relating to prescribed time for completion, or the current indices or prices, relating to prescribed time for completion, or the current indices or prices, whichever is more favorable to the Owner, provided that if an extension of time is granted, the above position shall apply to the adjustment made after expiry of such extension of time.
- (C) On completion of the works and before final payment the contractor shall give a certificate that he has made full and complete disclosure to the Engineer-in-Charge of every increase or decrease in price obtained by him on materials affected by this clause.

CLAUSE.5.15. Exemption from price Adjustment

The following items shall not be included in the price adjustment calculation:

- (A) *Liquidated damages:*
- (B) *Retention withheld and released:*
- (C) *Advance payments in the form of loans and their repayments:*
- (D) *The value of any additional or varied work valued at current prices:*

CLAUSE.5.16. SPECIFICATIONS

In the case of any class of work for which there is no such specifications as referred to in detailed specification, 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 C.P.W.D./District/ state P.W.D. / 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. Specifications for a type of work are not covered by the detailed specifications/State P.W.D. specifications/I.S.I specifications or particular specifications, the same shall be decided by the engineer-in-charge and shall be binding on the contractor.

The engineer-in-charge shall have the power to insist upon the contractor to purchase and use such materials of particular approved make which may in this opinion be necessary for proper and reasonable compliance with the specifications and execution of work.

In the event of any variation/discrepancy in the drawings, specification and tender documents, the decision of the Engineer In charge shall be final, binding and conclusive on the contractor.

(A) *As required by the Engineer-in-charge, the contractor shall provide all facilities at site or at manufactures work or an approved Laboratory for testing of materials and/or workmanship, all the expenditure in respect of this shall be borne by the contractor unless specified otherwise in the contract. The contractor shall when required to do so by the engineer-in-charge submit that the materials have been tested in accordance with requirements of the specifications.*

(B) *Neither the confirmation by the engineer-in-charge not to test the materials nor the production of manufacturer(s) certificate etc. as aforesaid shall affect the right of the engineer-in-charge to reject, after delivery; the materials found not in accordance with the specifications.*

CLAUSE.5.17. SETTING OUT

The Contractor shall carry out survey of the work area and it's surrounding with spot levels of the existing ground at every 2.0 mt interval before starting of any work on ground. Contractor has to submit a soft copy of the drawing in CAD format showing the spot levels and contour at every 0.5 mt interval with three set of Hard copy in the same scale of the issued drawing for setting out at his own cost. Contractor has to carry out setting out the layout of building in consultation with the Engineer-in-Charge & proceed further for the approval of design consultants. Any discrepancy between the architectural drawings and actual layout at site shall be brought to the notice of the Engineer-in-charge. It shall be responsibility of the Contractor to ensure correct setting out of alignment. Total station survey instruments etc. shall be used for layout, fixing boundaries, and center lines, etc. Nothing extra shall be payable on this account.

The Contractor shall establish, maintain and assume responsibility for grades, lines, levels and benchmarks. He shall report any errors or inconsistencies regarding grades, lines, levels, dimensions etc. to the Engineer-in-Charge before commencing work. Commencement of work shall be regarded as the Contractor's acceptance of such grades, lines, levels, and dimensions and no claim shall be entertained at a later date for any errors found.

If at any time, any error appears due to grades, lines, levels and benchmarks during the progress of the work, the Contractor shall, at his own expense rectify such error, if so required, to the satisfaction of the Engineer-in-Charge. Nothing extra shall be payable on this account.

Though the site levels are indicated in the drawings the Contractor shall ascertain and confirm the site levels with respect to benchmark from the concerned authorities. If required contractor has to make his own temporary/permanent benchmark to carry out further work at site. The Contractor shall protect and maintain temporary/permanent benchmarks at the site of work throughout the execution of work. The Engineer-in-Charge or his authorized representatives shall check these benchmarks. The work at different stages shall be checked with reference to bench marks maintained for the said purpose. Nothing extra shall be payable on this account.

The approval by the Engineer-in-Charge, of the setting out by the Contractor, shall not relieve the Contractor of any of his responsibilities and obligation to rectify the errors/defects, if any, which may be found at any stage during the progress of the work or after the completion of the work.

The Contractor shall be entirely and exclusively responsible for the horizontal, vertical and other alignments, the level and correctness of every part of the work and shall rectify effectively any errors or imperfections therein. Such rectifications shall be carried out by the Contractor at his own cost to the entire satisfaction of the Engineer-in-Charge.

The rates quoted by the Contractor are deemed to be inclusive of site clearance, setting out work (including marking of reference points, center lines of buildings), construction and maintenance of reference bench mark(s), taking spot levels, construction of all safety and protection devices, barriers, barricading, signage, labour safety, labour welfare and labour training measures, preparatory works, working during monsoon, working at all depths, height and location etc. and any other incidental works like making temporary approaches to the place of work required to complete this work. Nothing extra shall be payable on this account.

CLAUSE.5.18. Contractor shall submit fabrication/ shop drawings for obtaining approval

The contractor shall submit fabrication drawing based on GA drawings and design parameters given by the Design Consultants, in triplicate for obtaining preliminary approval of the Engineer-in-Charge for all design drawing of structural steel element already issued to him. One copy of this drawing duly corrected and signed wherever necessary by Design Consultants will be returned to the contractor for preparing and resubmitting drawing after incorporating the said corrections again in triplicate for final approval. Along with the completion and approval of each fabrication drawing the contractor shall also submit the materials list for checking and approval to the Engineer-in-charge. No drawing shall be approved finally without material list. Once the drawing, if finally approved no request for any alternative section will be entertained. The contractor shall submit to Engineer in Charge 6 copies of all approved drawings out of which 3 copies will be issued back to the contractor for the execution of work. The contractor shall also submit copies of design calculations for the designs of joints. All joints shall be designed for full strength of members, unless otherwise specified. Approval of fabrication drawings however will not absolve the contractor of his responsibility for the safety and correctness of the fabrication.

CLAUSE.5.19. QUALITY ASSURANCE

5.19.1 The proposed project is a prestigious project and quality of work is of paramount importance. Contractor shall have to engage well-experienced skilled labour and deploy modern T&P and other equipment to execute the work. Many items like double slab structure with exposed finish form works, coarse rubble stone masonry specialized flooring work, Polysulphide sealant and backer rod fixing in expansion joints, factory made door- window shutters, proper slope maintaining in toilet units, sanitary- water supply installation, textured finishing, water proofing

treatment with APP, Extruded Polystyrene insulation boards, china mosaic on terrace and chemical treatment in toilet drops will specially require engagement of skilled workers having experience particularly in execution of such items.

- 5.19.2 The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material / work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-charge & contractor shall be bound to replace / remove such sub-standard / defective work immediately. If any material, even though approved by Engineer-In-Charge is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost.

In addition to the supervision of work by project management consultants, the design consultants appointed by the IIMU shall also be carrying out regular and periodic inspection of the ongoing activities in the work and deficiencies, shortcomings, inferior workmanship pointed out by them shall be communicated by engineer in charge to the contractor. Upon receipt of instructions from Engineer in Charge these are also to be made good by necessary improvement, rectification, replacement up to his complete satisfaction. Special attention shall be paid towards line and level of internal and external finishing, exposed smooth surface of RCC members by providing fresh shuttering plates, rubberized linings to all the shuttering joints, accurate joinery work in wooden doors and windows, thinnest joints in stone/ tiling / cladding work, non-hollowness in floor and dado tiles work, protection of scratches over flooring by impounding layer of plaster of Paris, water tight pipe linings, proper compaction of filled up earth etc to achieve an Institution of International standards and up keeping of quality assurance shall be of paramount importance, as such.

- 5.19.3 The Contractor shall submit, within 20 days after the date of award of work, a detailed and complete method statement for the execution, testing and Quality Assurance, of such items of works, as directed by the Engineer-in-Charge. All the materials to be used in the work, to give the finished work complete in all respects, shall comply with the requirements of the

Specifications and shall pass all the tests required as per specifications as applicable or such specifications / standards as directed by the Engineer-in-Charge. However, keeping the Quality Assurance in mind, the Contractor shall submit, on request from the Engineer-in- Charge, his own Quality Assurance procedures for basic materials and such items, to be followed during the execution of the work, for approval of the Engineer-in-Charge.

- 5.19.4 The Contractor shall procure and provide all the materials from the manufacturers / suppliers as per the list attached with the tender documents, as per the item description and particular specifications for the work. The equivalent brand for any item shall be permitted to be used in the work, only when the specified make is not available. This is, however, subject to documentary evidence produced by the contractor for non-availability of the brand specified and also subject to independent verification by the Engineer-in-Charge. In exceptional cases, where such approval is required, the decision of Engineer-in-Charge as regards equivalent make of the material shall be final and binding on the Contractor. No claim, whatsoever, of any kind shall be entertained from the Contractor on this account. Nothing extra shall be payable on this account. Also, the material shall be procured only after written approval of the Engineer-in-Charge. All materials shall be got checked by the Engineer-in-Charge or his authorized supervisory staff on receipt of the same at site before use.
- 5.19.5 The tests, as necessary, shall be conducted in the Laboratory approved by the Engineer-in- Charge. The samples shall be taken for carrying out all or any of the tests stipulated in the particular specifications and as directed by the Engineer-in-Charge or his authorized representative.
- 5.19.6 The Contractor shall at his own risk and cost make all arrangements and shall provide all such facilities including material and labour, the Engineer-in-Charge may require for collecting, preparing, forwarding the required number of samples for testing as per the frequency of test stipulated in the contract specifications or as considered necessary by the engineer-in-Charge, at such time and to such places, as directed by the Engineer-in- Charge. Nothing extra shall be payable for the above.
- 5.19.7 The Contractor or his authorized representative shall associate in collection, preparation, forwarding and testing of such samples. In case he or his authorized representative is not present or does not associate him, the result of such tests and consequences thereon shall be binding on the Contractor .The Contractor or his authorized representative shall remain in contact with the Engineer-in-Charge or his authorized representative associated for all such operations. No claim of payment or claim of any other kind, whatsoever, shall be entertained from the Contractor.

5.19.8 All the hidden items such as water supply lines, drainage pipes, conduits, sewers etc. are to be properly tested as per the design conditions before covering and their measurements in computerized measurement book duly test checked shall be deposited with Engineer in charge or his authorized representative, prior to hiding these items.

5.17.9 The contractor shall give performance test of the entire installation(s) as per the standing specifications before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test.

5.19.10 The Contractor shall maintain all the work in good condition till the completion of entire work. The Contractor shall be responsible for and shall make good, all damages and repairs, rendered necessary due to fire, rain, traffic, floods or any other causes. The Engineer-in- Charge shall not be responsible for any claims for injuries to person/workmen or for structural damage to property happening from any neglect, default, want of proper care or misconduct on the part of the Contractor or of any other of his representatives, in his employment during the execution of the work. The compensation, if any, shall be paid directly to the Department / authority / persons concerned, by the Contractor at his own cost.

5.19.11 **Defects Liability Period:**

Defects liability period shall be taken as **24 months** from the date of completion of the Project as a whole (as defined in the contract agreement) wherein all the defects shall be rectified by the contractor at his own cost. For specialized works such as water proofing etc., the defect liability period shall be for a minimum period of 10 years.

The Contractor shall provide a certificate of adherence to all plant sourcing specifications for each batch of plants imported into the site or developed in the site nursery. All plants shall also be covered under defect liability and contractor shall be liable for replacement in all cases of plant mortality except nature based force-majeure. Any plants deemed dead, dying, exhibiting disease or stunted growth shall be replaced by Contractor at own cost.

CLAUSE.5.20. Special Conditions -

1. Scope of Work

Scope of work of the contract shall include, but not limited to, the following items:

1.1. Earthwork – embankments, artistic land forms, slope stabilization, geotextile

stabilized mounds

1.2. Planting areas - mass plantation, filler plantation, display plantation, buffer
Plantation, feature plantation

1.3. Landscape services

- ☐ Plant nursery establishment and management
- ☐ Garden soil, mulch and manure preparation (vermicompost, cow dung manure)
- ☐ Storage and maintenance areas
- ☐ Lighting - flood lighting, street lighting, area lighting, focus lighting, building lighting, plant lighting, ambient lighting
- ☐ Rainwater harvesting system – site drains, swales (constructed, planted, gravel filled), saucer drains, percolation pits, rainwater channels
- ☐ Automated Irrigation system - pressurized mains, non-pressurized distribution system consisting of sprinklers, drip lines, soil and climate sensors, SCADA based automation and control
- ☐ Maintenance of complete landscape area including hardscapes and softscapes and entire variety of plantation (suited to Udaipur climate) for minimum five years, including preventive care as well as disease management, mortality replacement and tree transplantation

1.4. Podium gardens / Terrace Gardens

- ☐ Sub base creation using drain cells and geotextiles
- ☐ Usage of soil admixtures like perlite, vermiculite
- ☐ Lightweight filler material like siporex, autoclaved aerated concrete
- ☐ Plantation on podium including trees

2. Type of Contract

Contract shall be as per tender condition specified.

3. Site Information

Applicant shall be deemed to have complete understanding of the site and its conditions necessary for development of landscape, and shall satisfy himself by visiting the site, potential material sourcing areas, obtaining and analyzing necessary soil and water samples as well as climatic data for complete acquaintance with the site.

Acquaintance with site

Applicant shall be deemed to have complete understanding of the site and its conditions necessary for development of landscape, and shall satisfy himself by visiting the site,

potential material sourcing areas, obtaining and analysing necessary soil and water samples as well as climatic data for complete acquaintance with the site.

4. Design & Details

Contractor has to work as per the designs and lineout details provided by Landscape

Consultant/Architect. Difficulty on site in execution as per the plan/ design has to be brought to the notice of Engineer-in-charge immediately. Any discrepancies in the design subject to execution hurdles and alteration required should be reported to Engineer-in-charge and the same should be improvised by the Landscape consultant/ Architect or as per instruction of the Engineer-in-charge and contractor shall have to work only after due approval of the modification.

5. Personnel Required On-Site

Applicant or their specialist sub-contractor should have staff under full-time employment ready for deployment on project site as and when required as mentioned.

Civil Engineer (1 no) – BE Civil with minimum 10 years' of experience

Civil Engineer (1 no) – BE Civil with minimum 5 years' of experience in landscaping works of similar scale and nature in hilly sites

Horticulturist (1 no) – Master's degree or higher with minimum 15 years' of experience in landscaping works, nursery management and estate management of similar scale and nature in hilly sites with semi-arid climate.

Gardener (3nos) – minimum 15 years of experience in establishment, maintenance and disease management of landscaping works of similar scale and nature in hill sites with semi-arid climate.

6. Equipment required On-site

Applicant or their specialist sub-contractor shall own, or have assured access (through hire, lease, purchase agreement, other commercial means, or approved subcontracting) to key items of equipment, in full working order and ready for deployment on project site as follows:

6.1. Total Station based computerized survey equipment – 1 no.

6.2. Earth moving equipment –tractors / trucks / dumpsters – minimum 1 no. each

6.3. Hoisting and lifting equipment – 2 nos.

6.4. All necessary civil work equipment

6.5. Plant management equipment including but not limited to – lawn mower, garden shears, various containers for head-loading and local transit / storage, hoes, forks, spades, pickaxes, raking tools, grass shear, grass sword, pruning secateurs, shredders, chainsaws,

leaf blowers, aerators, garden rollers, sprays and pumps, staking equipment, guying equipment (numbers as required for scale of site works)

6.6. Landscape related soil testing equipment / mini lab capable of generating soil reports as specified in technical specifications document (1 no.)

6.7. Weather gauges for temperature, humidity, rainfall, wind (1 no.)

6.8. Miscellaneous tools and equipment for weighing, drying, screening, covering, etc (numbers as required for scale of site works)

6.9. Equipment required for establishment of permanent site nursery (numbers as required for scale of site works)

7. Landscape Site Preparation

The landscape site should be free of any construction debris or wild vegetation. It shall be responsibility of the contractor to ensure that the site is in working condition as per instruction of the Engineer-in-charge. The contractor shall also ensure proper grading of the landscape site in terms of aesthetics as well as drainage providing mounds and slopes with a gentle slope towards natural drainage direction. All rubble and debris if any shall be collected and disposed of in the suitable location possibly in low lying areas as identified by the contractor and approved by Engineer-in-charge. Contractor shall also provide adequate protection to area handed over to him including but not limited to garden-net or GI Sheet fencing along entire area for ensuring complete protection from nearby construction, stray animals, dust, excessive heat, etc. for preventing any disturbance or inclement weather to affect the handed over area.

8. Soil for planting & regular soil tests

The Soil to be used as Top Soil (Garden Soil/earth) for all plantation works shall be primarily imported fertile soil consisting of approved lake bed silt, tank silt or from agriculture fields. All sources must be in conformity with legal and environmental provisions governing the project and site. All soils to be used for intensive landscape plantation shall be tested to conform to the following criteria:

Sl. No	Parameter	Acceptance value
1.	PH Value	7.5
2.	Nitrogen Between	25-60 ppm
3.	Total Soluble Solids	0.01%
4.	Chloride	20 mg/kg
5.	Carbonates	between 1 & 60%
6.	Organic Matter	between 1 & 60%
7.	Phosphorous	Between 4 & 5 ppm

8.	Calcium Between	150 & 250 ppm
9.	Magnesium Between	11 & 20% / Between 7 and 10 ppm
10.	Salinity Between	420 & 12 Months0 ppm
11.	Sodium	Less than 5%
12.	Potassium	Between 90 & 125 ppm
13.	Sodium Adsorption Ratio (SAR) between	12% to 15 %
14.	Sulphure as Sulphate	between 7 & 12 ppm
15.	Iron	between 5 & 20 ppm
16.	Boron	between 0.5 & 1.0ppm
17.	Zinc	between 1.2 & 3.5 ppm
18.	Copper	between 0.3 & 1.0ppm

The contractor should prepare soil test report for each batch imported on site along with proposed measures, if required, for additives and soil conditioner to maintain PH value of the soil between 7.0 -7.5 before plantation works. Progressive tri-monthly soil test reports shall be maintained for random soil samples taken at rate of one for each hectare of planted area. In addition, the Engineer-in-charge or landscape consultant/architects may, at any point of time, direct the contractor to test soil sample from plantation area. Also contractor shall undertake treatment as per advice of the landscape consultant/architects for soil conditioning during the entire maintenance period.

9. Sub-contracting by Applicant

Applicant should separately provide complete information for all sub-contractors as required in application forms.

10. Defect Liability

The contractor shall provide a defect liability of two years for all equipment installed, construction undertaken and plantation developed.

The Contractor shall provide a certificate of adherence to all plant sourcing specifications for each batch of plants imported into the site or developed in the site nursery. All plants shall also be covered under defect liability and contractor shall be liable for replacement in all cases of plant mortality except nature based force-majeure. Any plants deemed dead, dying, exhibiting disease or stunted growth shall be replaced by Contractor at own cost.

11. Disposal of Waste-General Cleanliness of Landscape Site

The arrangement of transport for disposal of waste, shifting of plants, etc. has to be made by the contractor. The generated waste has to be disposed of within 48 hrs. of generation or as instructed. Failing which arrangement shall be made for disposal of the same by the

employer at risk and cost of the landscape contractor. It is the contractor's responsibility to keep the garden healthy and in proper condition all the time. Employer will provide place for disposal of garden waste within premises for Vermicomposting to be compulsorily adopted by the Contractor

12. Provision for Water

Water will be provided by contractor and should ensure adequate source of water at own cost. Maintenance of tankers or any appropriate system shall be integral responsibility of the Contractor to meet the watering requirements of the Trees, shrubs and lawns under any circumstances. Water quality should be ensured for irrigation requirement, and regular testing for water quality should be performed.

13. Reports

The Contractor shall submit daily report on the deployment details as well as work planned for the day to the Engineer-In-Charge in prescribed format. All instructions and activities shall be recorded as per the desired format. Any problem or hindrance shall be brought to notice in the daily report along with evidence in form of photographs.

Also the contractor shall be required to maintain Stock Register at all times for the planting material sourced to Employer's site and Supply for plantation in the Nursery maintained by the Contractor.

14. Shop Drawings

The Contractor shall submit, well in advance, shop-drawings for items like steel fabrication, fountains, irrigation system, signage, sculptures, children's play equipment, sports surfaces, street furniture – seats, bollards, railings, dustbins, tree guards, tree grating, retaining walls, temporary structures, nursery structures, etc. Contractor shall obtain approval before construction / installation from Landscape consultant / Design Consultant for all shop-drawings after due modifications, if any, as directed by Landscape consultant/ Design Consultant.

15. Mock-ups

Contractor is required to erect mock-ups of all individual and unique items in scope of work like individual paving patterns, street furniture - seats, bollards, railings, dustbins, tree guards, tree grating, signage, children's play equipment, sports surfaces, fountains, water bodies, etc. Contractor is required to obtain approval of each item separately before construction / installation, after due modifications as instructed by Landscape consultant/ Design Consultant.

16. Nursery Maintenance Office Set-up

The Contractor shall be required to set-up Office for its staff and Nursery with good micro-climate to store the supply of the plants. In case of propagation of the plants in the nursery, the same shall be used on site only.

17. Vermi-Composts

Contractor shall mandatorily have Vermi-Composting System developed at appropriate location where all the pruning wastes, organic wastes shall be dumped with weeds, weed seeds or bulbs, stones etc., mix it well in the soil in the ratio (6:1), level as per grade.(point of unloading 0-50m). The process shall be require approval of the Engineer-In-Charge and periodic maintenance of the activity. Approval of engineer in charge prior to dispatch of material for use on site is must.

18. Maintenance

The Landscape Contractor shall maintain the works for a period of five calendar years after completion of defect liability period.

The Employer reserves the right to terminate the maintenance period at any time, whereby no additional charges are to be made by the Landscape Contractor to the Employer. The Contractor shall adhere to the maintenance schedule. During the maintenance period of all the plants, contractor shall be responsible for any replacement towards mortality and the trees or the area of the plantation under shrubs/creepers/ground covers etc. should be in healthy condition during the inspection conducted by the Engineer-in-charge every month. Contractor shall maintain daily record of maintenance & operations on site and submit daily report for all the areas. Contractor shall take note of the observations of the engineer-in-Charge or his representative/Horticulturist and seek compliance of the same at the earliest before nearest schedule.

19. The extent of the landscape to be maintained by the Landscape Contractor shall be deemed to cover and include all soft scape landscape areas within the overall project boundaries as shown on the drawings including any existing soft landscape not affected by the Sub-Contract works and retained intact or nearly so through the end of the Sub-Contract period as well as all the landscape works covered in the Sub-Contract scope of works. No additional charges will be allowed unless specifically agreed to by the Engineer-in-charge/ Landscape consultant/ Architect in writing.

20. Daily Site Inspections

The Landscape Contractor's Horticulturist shall inspect the site every day and shall submit report to the employer on their actions and closure of the pending works .Also on weekly basis, the Contractor's Horticulturist shall prepare a brief schedule of operations planned for the week with target dates.

21. Daily Reports

The daily report and the weekly schedule shall be running record of proposed operations which would be checked at the maintenance inspections every month. If in the opinion of the Landscape consultant / Architect/Engineer-In-Charge, the maintenance works have not been satisfactorily carried out according to site conditions and the specifications, the

payment will be withheld until the works have been satisfactorily carried out besides the penalty as in the penalty clause.

22. Plant Maintenance

The Landscape Contractor shall take all necessary measures to ensure that all pot plants, trees and shrubs and other plants shall thrive and become established within this period. All landscape areas will be inspected and list of remedial works issued after each inspection. All items on the remedial lists are to be carried out by the time of the next inspection. The Landscape Contractor shall keep the landscape areas clean and tidy at all times and dispose of all waste materials arising from the cleaning.

23. If the Landscape Contractors works are found to be unsatisfactory, payment shall be withheld and the maintenance period extended for the period of time that the landscapes maintenance has not been satisfactory. All cost associated with the extension of time shall be borne by the contractor.

24. The Landscape Contractor shall water all trees, palms, shrubs, groundcover, herbaceous plants and other planting areas as often as necessary or as directed by Engineer- in- charge to keep the ground moist all around and to the full depth of the roots, but never to excessively water the areas.

25. Complete regular maintenance operations like irrigation, de-weeding, pruning, preventive care, protection of landscape areas, disease management, mortality replacement, regular soil testing, weather recording, nursery management, application of fertilizers and pesticides is included in contractor's scope of work for the entire period of maintenance.

No	Criteria	
1	The successful bidder would need to work in close co ordination with the other appointed contractors for ongoing work	
2	The bidder has visited the site, and clearly understood the local climate, soil, water, environment, etc necessary for landscape development work	
3	The bidder has clearly understood all parts of the tender document, read the complete document carefully with provided drawings and specifications, has visited the site and its surroundings	
4	The successful bidder shall provide all necessary items, processes, labour, etc mentioned in provision of site utilities, miscellaneous works and processes at no extra cost to the client	
5	The successful bidder to appoint a Site Supervisor with qualifications mentioned in this document	

SECTION 6
ADDITIONAL CONDITIONS FOR GREEN
BUILDING PRACTICES

6.1 The campus is proposed to be registered for obtaining GRIHA LD Rating from GRIHA Secretariat under MNRE scheme. The contractor is required to execute the work in a befitting manner to obtain the targeted GRIHA rating by Owner.

6.2 Special conditions for GRIHA rating:-

6.2.1 The contractor shall prepare scheme for the approval of Engineer-in-charge for obtaining GRIHA rating in the criteria relevant to the execution of work.

6.2.2 The contractor shall plan and execute the work in a manner to preserve and protect the landscape during construction and shall arrange the materials/equipment and follow the procedure as per criterion 2 of the GRIHA rating as applicable.

6.2.3 The contractor shall appoint/engage consultant/ consultancies to provide technical guidance and supervise the work, pertaining to the criterion related to the execution of work, so that it finally achieves the targeted GRIHA rating.

The contractor shall preserve the top soil layer for supporting vegetative growth as per the guidelines given in chapter 4, Section 1, Part 10, NBC 2005.

The contractor shall comply with NBC norms on construction safety, health and sanitation as per criterion.

The construction activity shall be done in a befitting manner and the contractor shall adopt measures to prevent air pollution at site in compliance with criterion 9 of GRIHA rating as applicable.

The contractor shall comply with all the instructions and schemes for execution of green building.

Nothing shall be paid extra for fulfilment of all these conditions except for the items existing in the schedule of quantities. For such items work done shall be paid on the basis of the agreement rates.

6.3 Pre- construction stage

Construction Vehicles, Equipment and Machinery

All vehicles, equipment and machinery to be procured for construction shall conform to the relevant Bureau of India Standard (BIS) norms.

Emission from the vehicles must conform to environmental norms.

Dust produced from the vehicular movement and other site activities is to be mitigated by sprinkling of water. Noise limits for construction equipment shall not exceed 75 dB(A),

measured at one meter from the edge of the equipment in free area, as specified in the Environment Protection Act, 1986, schedule VI part E, as amended on 9th May, 1993. The maximum noise levels near the construction site should be limited to 65 dB (A) Leq (5 min) in project area. Contractor has to make a confined boundary to restrict construction activities within it. Contractor to prepare the Construction waste management plan for segregation, storage and safe disposal of construction waste for the approval of engineer in charge.

6.4 Construction Stage

6.4.1 Construction Wastes Disposal

The pre-identified dump locations will be a part of solid waste management plan OR construction waste management plan or safe handling, storage and recycling of construction waste to be prepared by the Contractor in consultation with Engineer-in-charge. Contractor needs to designate the area for construction waste storage. Inert and hazardous waste should be collected and stored separately on site.

The other construction waste should be either reused on site or safely dispose them off to designed agencies for recycling. The procedure of waste disposal either on-site reuse or selling for recycling purpose should be documented by photographs / log books / receipt copies and evidences needs to be submitted to the Engineer In charge. Contractor shall get approved the location of disposal site prior to commencement of the excavation on any section of the project location.

Contractor shall ensure that any spoils of material will not be disposed of in any municipality solid waste collection bins.

6.4.2 Procurement of Construction Materials

All vehicles delivering construction materials to the site shall be covered to avoid spillage of materials and maintain cleanliness of the roads.

Wheel Tires of all vehicles used by of the contractor, or any of his sub-contractor or materials supplies shall be cleaned and washed clear of all dust/mud before leaving the project premises. This shall be done by routing the vehicles through tire washing tracks.

Contractor shall arrange for regular water sprinkling at least twice a day (i.e. morning and evening) for dust suppression of the construction sites and unpaved roads used by his construction vehicles.

6.4.3 Water Pollution

The Contractor shall take all precautionary measures to prevent the waste water during construction to accumulate anywhere. The waste water arising from the project is to be disposed of in the manner that is acceptable to the Engineer-in-charge.

6.4.4 Air and Noise Pollution

Contractor shall use dust screens and sprinkle water around the construction site to arrest spreading of dust in the air and surrounding areas.

Contractor shall ensure that all vehicles, equipment and machinery used for construction are regularly maintained and confirm that emission levels comply with environmental emission standards/norms.

For controlling the noise from Vehicles, Plants and Equipment, the Contractor shall confirm the following:

All vehicles and equipment used in construction will be fitted with exhaust silencers.

Servicing of all construction vehicles and machinery will be done regularly and during routine servicing operations, the effectiveness of exhaust silencers will be checked and if found defective will be replaced.

Noise emission from compactors (rollers) front loaders, concrete mixers, cranes (movable), vibrators and saws should be less than 75 dB(A).

As per the standards/guidelines for control of Noise Pollution from Stationary Diesel Generator (DG) sets, noise emission in dB(A) from DG Set (15-500 KVA) should be less than $94 + 10 \log_{10} (KVA)$. The standards also suggest construction of acoustic enclosure around the DG Set and provision of proper exhaust muffler with insertion loss of minimum 25 dB (A) as mandatory.

6.4.5 Personal Safety Measures for Labour

Contractor will provide the following items for safety of workers employed by contractor and associate agencies:

Protective footwear and gloves to all workers employed for the work on mixing, cement, lime mortars, concrete etc. and openings in water pipeline/sewer line.

Welder's protective eye-shields to workers who are engaged in welding works.

Safety helmet and Safety harness/ belt.

6.5 The following provisions shall be maintained by the contractor at site:-

6.5.1 Provide adequate sanitation/safety facilities for construction workers to ensure the health and safety of the workers during construction, with effective provisions for the basic facilities such as sanitation, drinking water and safety equipment or machinery.

All the workers should be wearing helmet and shoes all the time on site.

Masks and gloves should be worn whenever and wherever required.

Adequate drinking water facility should be provided at site, adequate number of decentralized latrines and urinals to be provided for construction workers.

Full time workers residing on site should be provided with clean and adequate temporary hutment. Crèche/Day-care facility should be provided to young children of Labourers residing on site. Child labour should be banned on site.

First aid facility should also be provided.

Overhead lifting of heavy materials should be avoided. Barrow wheel and hand-lift boxes should be used to transport materials onsite.

Tobacco and cigarette smoking should be prohibited onsite.

All dangerous parts of machinery are well guarded and all precautions for working on machinery are taken.

Maintain hoists and lifts, lifting machines, chains, ropes and other lifting tackles in good condition.

Use of durable and reusable formwork systems to replace timber formwork and ensure that formwork where used is properly maintained.

Ensure that walking surfaces or boards at height are of sound construction and are provided with safety rails and belts. Provide protective equipment such as helmets.

Provide measure to prevent fire. Fire extinguisher and buckets of sand to be provided in fire-prone area and elsewhere.

Provide sufficient and suitable light for working during night.

Ensure that measures to protect workers from materials of construction, transportation, storage and other dangers and health hazards are taken.

Ensure that the construction firm/division/company have sound safety policies.

Comply with the safety procedure, norms and guidelines (as applicable) as outlined in NBC 2005 (BIS 2005c).

Adopt additional best practices and prescribed norms as in NBC 2005 (BIS 2005).

6.5.2 Identify roads on-site that would be used for vehicular traffic. Update vehicular roads (if these are unpaved) by increasing the surface strength by improving particle size, shape and mineral type that make up the surface base. Add surface gravel to reduce source of dust emission. Limit amount of fine particles (smaller than 0.075mm) to 10-20%. Limit vehicular speed on site 10km/h.

6.5.3 All material storages should be adequately covered and contained so that they are not exposed to situations where winds on site could lead to dust/particulate emissions.

6.5.4 Spills of dirt or dusty materials shall be cleaned up promptly so the spilled material does not become a source of fugitive dust and also to prevent of seepage of pollutant laden water into the ground aquifers. When cleaning up the spill, ensure that the

clean-up process does not generate additional dust. Similarly, spilled concrete slurries or liquid wastes should be contained/cleaned up immediately before they can infiltrate into the soil/ground or runoff in nearby areas.

6.5.5 Ensure that water spraying is carried out by wetting the surface by spraying water on:

Any dusty material.

Areas where demolition work is carried out.

Any unpaved main-haul road and.

Areas where excavation or earth moving activities are to be carried out.

6.6 The contractor shall ensure the following:

Cover and enclose the site by providing dust screen, sheeting or netting to scaffold along the perimeter of a building.

Covering stockpiles of dusty material with impervious sheeting.

Covering dusty load on vehicles by impervious sheeting before they leave the site.

Transferring, handling/storing dry loose materials like bulk cement and dry pulverized fly ash inside a totally enclosed system.

Spills of dirt or dusty materials shall be cleaned up promptly so that the spilled material does not become a source of fugitive dust and also to prevent seepage of pollutant laden water into the ground aquifers. When cleaning up the spill, ensure that the clean-up process does not generate additional dust. Similarly, spilled concrete slurries or liquid wastes should be contained/cleaned up immediately before they can infiltrate into the soil/ground or runoff in nearby areas.

Clear vegetation only from areas where work will start right away.

Vegetate/mulch areas where vehicles do not ply.

Apply gravel/landscaping rock to the areas where mulching/paving is impractical.

6.6.1 Adopt measures to prevent air pollution in the vicinity of the site due to construction activities. There is no standard reference for this. The best practices should be followed (as adopted from international best practice documents and codes).

6.6.2 Provide hoardings of not less than 3m height along the site boundary, next to a road or other public area.

6.6.3 The contractor shall provide experienced personnel with suitable training to ensure that these methods are implemented. Prior to the commencement of any work, the method of working, plant equipment and air pollution control system to be used on-site should be made available for the inspection and approval of the Engineer-in-Charge to ensure that these are suitable for the project.

6.6.4 Employ measures to segregate the waste on-site into inert, chemical or hazardous wastes. Recycle the unused chemical/hazardous wastes such as oil, paint, batteries and asbestos. The inert waste is to be disposed of to Municipal Corporation/local bodies dump yard and landfill sites.

6.7 Preserve and protect landscape during construction

6.7.1 Following provisions shall be made at site by the contractor to preserve and protect landscape. Nothing shall be paid on this account unless specifically provided for in the schedule of quantities.

6.7.2 To preserve the existing landscape and protect it from degradation during the process of construction. Select proper timing for construction activity to minimize the disturbance such as soil pollution due to spilling of the construction material and its mixing with rainwater. The construction management plan including soil erosion control management plan shall be prepared accordingly for each month. The application of erosion control measures includes construction of gravel pits and tyre washing bays of approved size and specification for all vehicular site entry/ exits, protection of steep slopes. Sedimentation Collection System and run-off diversion systems shall be in place before the commencement of construction activity. Preserve and protect the existing vegetation by not-disturbing or damaging to specified site areas during construction. The trees that are identified to be retained on site are protected during the construction period using the following measures:

The damage to roots is prevented during trenching, placing backfill, driving or parking heavy equipment. The dumping of trash, oil, paint and other material is detrimental to plant health. These activities should be restricted to the areas outside of the canopy of the trees.

The trees are not used for support; their trunks should not be damaged by cutting and carving by nailing posters and advertisements or in any other way.

The lighting of fires or carrying out heat or gas emitting construction activity within the ground covered by canopy of the trees is not permitted.

The young trees of saplings identified for preservation within the construction site must be protected using tree guards of approved specification.

The grades of soil should be maintained around existing vegetation. Lowering or raising the levels around the vegetation should not be allowed unless specifically directed by the Engineer -in - Charge.

Maintenance activities should be performed, as and when needed, to ensure that vegetation remain healthy.

6.8 Staging is dividing a construction area into two or more sections to minimize the area of soil that will be exposed at any given time. Staging should be done to separate undisturbed land from land disturbed by construction activity and material storage. A vector drawing plan to be submitted identifying the areas of sites, which shall be disturbed

for the construction activity and apart from these other areas on site should not be disturbed. Measures should be followed for collecting drainage water run-off from construction areas and material storage sites and diverting water flow away from such polluted areas. Temporary drainage channels and perimeter dike/swale should be constructed to carry the pollutant laden water directly to the treatment device or facility (municipal sewer line). The plan should indicate how the above was accomplished on site well in advance of the commencement of the construction activity.

6.8.1 The Contractor should follow the construction plan as proposed by the Design Consultant/landscape consultant to minimize the site disturbance such as soil pollution due to spilling. Use staging and spill prevention and control plan to restrict the spilling of the contaminating material on site. Protect top soil from erosion by collection storage and reapplication of top soil, constructing sediment basin, contour trenching, mulching etc.

6.8.2 Spill prevention and control plans should clearly state measures to stop the source of the spill. Measures to contain the spill and measures to dispose the contaminated material and hazardous wastes. It should also state the designation of personnel trained to prevent and control spills. Hazardous wastes include pesticides, paints, cleaners and petroleum products.

6.9 A soil Erosion and Sedimentation Control Plan (ESCP) should be prepared prior to construction and should be applied effectively. Measures for prevention of top soil are given below:

6.9.1 Top Soil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas and external services. It should be stockpiled to a maximum height of 40 cm in designated areas and reapplied during plantation of the proposed vegetation. The top soil should be separated from the sub soil debris and stones larger than 50 mm in diameter. The stored top soil may be used as finished grade for planting areas post construction or cordoned off undisturbed areas on site. Stockpiled top soil should not be compacted to help process of aeration. It should be stabilized on the top by temporary seeding or plastic sheets to avoid wind and water erosion. During construction period contractor has to preserve and protect existing nallas or natural drainage channel at site of work.

6.9.2 Sedimentation basin, a temporary dam or basin at the lowest convenient point of the site should be constructed for collecting, trapping and storing sediment produced by the construction activities. A flow detention facility must also be constructed for reducing peak run-off rates. This would also allow most of the sediments to settle before the run-off is directed towards the outfall.

6.9.3 Contour trenching is to be provided which an earth embankment or ridge-and-channel arrangement constructed parallel to the contours, along the face of the slope,

at regular intervals on the lengths and steep slopes. They are used for reducing run-off velocity, increasing the distance of overland run-off flow. They are also used to hold moisture and minimize sediment loading of surface run-off.

6.10 Prepare the list of trees to be felled with reference to the tree survey, Compensate the loss of vegetation (trees) due to the construction activity by compensatory plantation. Replant same native and/or non-invasive species, which existed on the site before elimination, in the proportion of 1:3 (as per the suggestion of the landscape consultant).

6.11 The contractor shall prepare and submit 'Spill prevention and control plans' before the start of construction, clearly stating measures to stop the source of the spill, to contain the spill, to dispose the contaminated material and hazardous wastes, and stating designation of personnel trained to prevent and control spills. Hazardous wastes include pesticides, paints, cleaners, and petroleum products.

6.12 The contractor shall ensure that no construction leaches (Ex: cement slurry) is allowed to percolate into the ground. Adequate precautions are to be taken to safeguard against this including reduction of wasteful curing processes, collection, basic filtering and reuse. The contractor shall follow requisite measures for collecting drainage water run-off from construction areas and material storage sites and diverting water flow away from such polluted areas. Temporary drainage channels, perimeter dike/swale, etc. shall be constructed to carry the pollutant-laden water directly to the treatment device or facility (municipal sewer line).

6.13 All lighting installed by the contractor around the site and at the labour quarters during construction shall be CFL bulbs of the appropriate illumination levels. This condition is a must, unless specifically prescribed.

6.14 All paints, adhesives and sealants should comply with the VOC limits prescribed by GRIHA, as follows:

6.15 All the building materials and systems used on site must be as per the specifications and approved makes by the consultants.

6.16 All required certificates explaining the properties of the building material/system needs to be obtained from the manufacturer/vendor as required by the green building rating authority.

The final certificates would be produced after the approval of green building consultant with necessary due diligence.

The purchase orders of all the materials made with the manufacturers/authorized vendors should be maintained and shall be provided for the process with due diligence upon request.

6.17 Water saving measures as suggested by the consultants need to be followed on site.

6.18 The contractor / subcontractor shall prepare and submit a Site Management Plan (SMP) within 10 days of start, for approval by the Engineer-in-charge. This SMP shall indicate the locations of godown, stockpiles, barricading, waste storage, offices, vehicular movement routes etc. In short this SMP would comprehensively represent how the site activities shall be managed conforming to GRIHA guidelines.

6.19 Any other site management measures suggested by the Engineer-in-charge / green building consultant shall be followed on site.

6.20 The contractor shall submit to the Engineer-in-Charge after construction of the buildings, a detailed as built quantification of the following:

Total materials used,

Total top soil stacked and total reused,

Total earth excavated,

Total waste generated,

Total waste reused,

Total water used,

Total electricity consumed, and

Total diesel consumed.

6.21 The contractor shall submit to the engineer-in-charge, before the start of construction, a site plan along with a narrative to demarcate areas on site from which top soil has to be gathered, designate area where it will be stored, measures adopted for top soil preservation and indicate areas where it will be reapplied after construction is complete.

6.22 Evidence for the implementation of the all the above required measures shall be provided to the green building consultant in the form of photographs and templates (as provided) which is required for the submission to the green building rating authority (GRIHA).

6.23 Nothing extra shall be payable for above provisions unless otherwise specified in Schedule of Quantities.

6.24 SPECIAL CONDITIONS FOR ENVIRONMENT MANAGEMET PLAN

- a. The contractor shall obtain approval for laying electrical lines from the concerned SE of RRVPNL/ AVVNL and comply with the provisions as per Terms and Conditions

for Supply of Electricity-2004 of AVVNL for construction purpose as well as for final connection.

- b. The contractor shall ensure taking necessary steps on urgent basis to improve the living conditions of the labour at site and provide necessary facility to the labour.
- c. Contractor has to construct housing colony for labour within the site with all necessary infrastructure and facilities such as health facility, sanitation facility, and fuel for cooking, along with safe drinking water, medical camps, and toilets for women, crèche for infants. The housing may be in the form of temporary structures to be removed after the completion of the project. Details of provisions should be submitted to Engineer In charge for them to submit it to RPCB at the time of obtaining CTE.
- d. During construction period mobile STP of capacity 60 & 20 KLD shall be provided by the contractor for the labour colony. The drains should be of adequate capacity and be lined till the final disposal points. Provision for disinfection of wastewater after treatment and before reuse to be ensured by the contractor.
- e. All required sanitary and hygienic measures shall be in place before starting construction activities. The safe disposal of wastewater and solid waste generated during the Construction phase shall be ensured.
- f. All the Labourers engaged for construction shall be screened for health and adequately treated before engaging them to work at the site.
- g. All the topsoil excavated during the construction shall be stored for use in horticulture/landscape development within the project site.
- h. Disposal of muck during construction phase shall not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people only in approved sites with approve competent authority.
- i. The contractor to ascertain that, there is no threat to the ground water quality by leaching of heavy metals and other toxic contaminants during construction will test soil and ground water samples.
- j. Construction spoils, including bituminous material and other hazardous materials must not be allowed to contaminate water courses and the dump sites for such material must be secured so that they do not leach into the ground water.
- k. The diesel generator sets to be used during construction phase shall be of low-sulphur- diesel type and shall conform to Environment (Protection) Rules for air and noise emission standards.
- l. Vehicles hired for bringing construction material and Labourers to the site shall be in good conditions and shall conform to applicable air and noise emission standards and shall be operated during non-peak/approved hours.

- m. Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase.
- n. NOC shall be obtained from National State Disaster Management Authority, wherever applicable.
- o. Water demand during construction shall be reduced by the use of pre-mixed concrete, curing agents and other best practices.
- p. Total domestic water requirement shall not exceed 94 KLD during construction stage.
- q. Adequate measures shall be taken to reduce air and noise pollution during construction as per CPCB norms.
- r. A First Aid Room should be provided at the project site during construction phase of the project.
- s. Any hazardous waste generated during construction phase shall be disposed of as per applicable rules and norms with necessary authorization of the RPCB.
- t. Regular supervision of the above and other measures for monitoring shall be done by Engineer In charge throughout the construction phase, so as to avoid nuisance to the surroundings.

SECTION 7
SAFETY CODES AND RULES

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 mazzdoor 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 guardrail 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. Excavation and Trenching - All trenches 1.2 m. (4ft.) or more in depth, shall at all times be supplied with at least one ladder for each 30 m. (100 ft.) in length or fraction thereof, Ladder shall extend from bottom of the trench to at least 90 cm. (3ft.) above the surface of the ground. The side of the trenches which are 1.5 m. (5ft.) or more in depth shall be stepped back to give suitable slope or securely held by timber bracing, so as to avoid the danger of sides collapsing. The excavated materials shall not be placed within 1.5 m. (5ft.) of the edges of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances, undermining or undercutting shall be done.
7. Demolition - Before any demolition work is commenced and also during the progress of the work,
 - (i) All roads and open areas adjacent to the work site shall either be closed or suitably protected.
 - (ii) No electric cable or apparatus which is liable to be a source of danger or a cable or apparatus used by the operator shall remain electrically charged. (iii) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.
8. All necessary personal safety equipment as considered adequate by the Engineer-in-Charge should be kept available for the use of the person employed on the site and maintained in a condition suitable for immediate use, and the contractor should take adequate steps to ensure proper use of equipment by those concerned:- The following safety equipment shall invariably be provided.
 - i) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective goggles.
 - ii) Those engaged in white washing and mixing or stacking of cement bags or any material which is injurious to the eyes, shall be provided with protective goggles.
 - iii) Those engaged in welding works shall be provided with welder's protective eye-shields.
 - iv) Stone breaker shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
 - v) When workers are employed in sewers and manholes, which are in active use, the contractors shall ensure that the manhole covers are opened and ventilated 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 safety officer or any other higher official.
- b) At least 5 to 6 manholes upstream and downstream should be kept open for atleast 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. Nonsparking gas engines also could be used but they should be placed at least 2 metres away from the opening and on the leeward side protected from wind so that they will not be a source of friction on any inflammable gas that might be present.
- l) The workers engaged for cleaning the manholes/sewers should be properly trained before allowing to work in the manhole.
- m) The workers shall be provided with Gumboots or non sparking shoes bump helmets and gloves non sparking tools safety lights and gas masks and portable air blowers

(when necessary). They must be supplied with barrier cream for anointing the limbs before working inside the sewer lines.

- n) Workmen descending a manhole shall try each ladder stop or rung carefully before putting his full weight on it to guard against insecure fastening due to corrosion of the rung fixed to manhole well.
- o) If a man has received a physical injury, he should be brought out of the sewer immediately and adequate medical aid should be provided to him.
- p) The extent to which these precautions are to be taken depend on individual situation but the decision of the Engineer-in-Charge regarding the steps to be taken in this regard in an individual case will be final.
- vi) The Contractor shall not employ men and women below the age of 18 years on the work of painting with products containing lead in any form. Wherever men above the age of 18 are employed on the work of lead painting, the following precaution should be taken:-
 - a) No paint containing lead or lead products shall be used except in the form of paste or ready made 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 appointed by competent authority.
 - viii) Competent authority 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.
(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 Owner machines, the safe working load shall be notified by the Electrical Engineer deputed by the 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 minimize 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 Engineer-in-Charge or their representatives.
16. **WARNING/CAUTION BOARDS:** All temporary warning / caution boards / glow signage display such as "Construction Work in Progress", "Keep Away", "No Parking", Diversions & protective Barricades etc. shall be provided and displayed during day time by the Contractor, wherever required and as directed by the Engineer-in-Charge. These glow signage and red lights shall be suitably illuminated during night also. The Contractor shall be solely responsible for damage and accident caused, if any, due to negligence on his part. Also he shall ensure that no hindrance, as far as possible, is caused to general traffic during execution of the work. This signage shall be dismantled & taken away by the Contractor after the completion of work, only after approval of the Engineer - in - Charge. Nothing extra shall be payable on this account.
17. **SIGN BOARDS:** The Contractor shall provide and erect a display board of size and shape as required and paint over it, in a legible and workman like manner, the details about the salient features of the project, as required by the Engineer-in-Charge. The Contractor shall fabricate and put up a sign board in an approved location and to an approved design indicating name of the project, Owner / owner, architects, structural consultants, Department etc. besides providing space for names of other Contractors, Sub-Contractors and specialized agencies. Nothing extra shall be payable on this account. Necessary protective and safety equipment's shall be provided to the Site Engineer, Supervisory staff, labour and technical staff of the contractor by the Contractor at his own cost and to be used at site. No inflammable materials including P.O.L shall be allowed to be stored in huge quantity at site. Only limited quantity of P.O.L may be allowed to be stored at site subject to the compliance of all rules / instructions issued by the relevant authorities and as per the direction of Engineer -in- Charge in this regard. Also all precautions and safety measures shall be taken by the

Contractor for safe handling of the P.O.L products stored at site. All consequences on account of unsafe handling of P.O.L shall be borne by the Contractor.

18. The Project team has prepared an EHS manual and exhaustive process and guidelines for the EHS implementation plan at site. The documents and the manual containing these process and guidelines are enclosed separately with the tender documents as “EHS Manual”. Contractors are expected to go through all the provisions of this EHS manual and apprise themselves of these requirements before submitting their tenders as they would be required during the execution of the project to strictly adhere to those guidelines, provisions and processes.