# TENDER OF EXTENSION (PEB + CIVIL) ABOVE MULTIPURPOSE HALL (AAHAAR BLOCK) FOR ENTREPRENEURSHIP DEVELOPMENT INSTITUTE [EDI]

AT BHAT, AHMEDABAD

**CLIENT:** 

ENTREPRENEURSHIP DEVELOPMENT INSTITUTE
BHAT, AHMEDABAD

**LEAD CONSULTANTS:** 

COLLABORATIVE DESIGN & AXEES CONSULTANT

613-614-615, PUSHTI HEIGHTS, NEAR SUBHASH CHOWK, GURUKUL ROAD, MEMNAGAR, AHMEDABAD - 380052

# "NOTICE INVITING TENDERS

1. Employer : M/s. Entrepreneurship Development Institute of India

Bhat,

Gandhinagar, Gujarat, India-382428

Consultants : Collaborative design & Axees consultants

613-614, Pushti heights, Near Subhash chowk,

Gurukul Road, Memnagar, Ahmedabad - 380052

Site : M/s. Entrepreneurship Development Institute of India

Bhat,

Gandhinagar, Gujarat, India-382428

2. Sealed tenders are invited on behalf of the Employer for Extension (PEB + Civil) above Multipurpose Hall (Aahaar Block) for M/s. Entrepreneurship Development Institute of India at Gandhinagar, Gujarat. The works are required to be completed within Four months as per the terms of the contract conditions.

- 3. Tender papers, contract documents specifications and Schedule of Items/Quantities, etc. can be obtained from the website of the Entrepreneurship Development Institute of India (<a href="https://www.ediindia.org/Tender.aspx">https://www.ediindia.org/Tender.aspx</a>) from 06.08.2025 from 10.00 am onwards. The duly filled tender document may be submitted along with a Demand Draft of Rs. 2,000/- in favour EDI of India. The Tender fee shall be non-refundable.
- 4. The Tender with a complete set of the tender documents shall be enclosed in a sealed cover super scribed with name of work, Consultant Name and sent through Registered Post/Courier/Hand delivery only, to **Senior Manager Estate**, **EDII**, **Bhat Gandhinagar-382428** on or before **18:00** hrs. on **26.08.2025**, Late tenders, delayed tenders and ordinary post tenders shall not be opened and considered.
- 5. Tenders for the work shall remain open for the acceptance from **06.08.2025** to **26.08.2025**.
- 6. Before quoting the rates, every tenderer is expected to inspect the site of the proposed work and to have satisfied himself as to the nature of all works, all existing roads, water-way and other means of communication and access to and from the site and work and the building that may be required for temporary purposes in connection with the construction, completion and maintenance of the works and must make his own inquiries as to work, yard sites and depot and dumps and as to acquisition of such additional sites and areas as may be necessary for temporary purpose for constructing, completing and maintaining the works. He must ascertain the availability of space for storage of construction materials, water supply, electricity, means of access to the work, nature of work and acquaint himself with all local conditions. A tenderer shall be deemed to have full knowledge of all the relevant documents, samples, site, etc. whether he inspects them or not before submitting the tender.
- 7. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specification of the work to be done and of local conditions and other factors bearing on the execution of the works.
- 8. Person's tendering are informed that no erasures or alterations by them in the text of the document sent herewith shall be allowed and any such erasures or alterations shall be disregarded. If there is any error in writing, no overwriting should be done, the wrong word or figure should be struck out and the correct one written above or neat it in unambiguous way. Each correction should be initialed.

# 9. CONTRACTORS TO PLEASE READ THIS CAREFULLY

a. The rate for items in **Schedule of Items/Quantities** must be given in words and figures. Amount of each item must also be entered in column and grand total of amount must be struck out by the

tenderer.

- b. If the tender is taken in favour of the company, a power of attorney in favor of the person who may have signed the tender for the company must accompany the tender.
- c. The tender document should be initialed by the Contractor.
- d. All corrections, erasures and overwriting should be initialed by the Contractor.
- e. Discrepancies and Adjustment of Errors:

Any error in quantity or amount in Schedule of Items/Quantities showing item or work to be carried out shall be adjusted in accordance with the following rules:

- a) In the event of a discrepancy between description in words and figures quoted by a tenderer in the rates column, the description in words shall prevail.
- b) In the event of an error occurring in the `amount column of the Schedule of Items/Quantities showing items of work, as a result of wrong multiplication of the unit rate and quantity, the unit rate shall be regarded as firm and multiplication shall be amended on the basis of the rate.
- c) All errors in totaling in `amount' column in carrying forward total shall be corrected.
- d) Any rounding of amount against `items' or in `totals' shall be ignored.
- 10. Architects reserve the right to reject any or all tenders with the previous approval in writing from the employer without giving any reasons, and to waive any deviations which do not constitute a material modification in the tenders received. They also reserve the right to accept any tender and not only the lowest without giving any reasons. Not more than one tender shall be submitted by a Contractor or by a firm of Contractors. No two or more concerns in which an individual is interested as a proprietor and/or partner shall tender for the execution of the same works. If they do, all such tenders shall be liable to be rejected. A tenderer shall submit the tender which satisfies each and every condition laid down in this notice and tender documents, failing which, the tender shall be liable to be rejected.

In addition to the above, the tender shall also be liable to be rejected outright, if:

- i) The tenderer proposes any alteration in the work specified or in the time allowed for carrying out the work or any condition or correction made in any code or mode of Schedule of Items/Quantities or Specifications, Conditions of Contract.
- ii) Any of the page or pages of the tender is/are removed or replaced.
- iii) All corrections, additions or pasted slips are not initialed by the tenderer.
- iv) Any erasure is made by him in the tender, and
- v) The tenderer or in the case of a firm, each partner or the person holding the power of attorney thereof does not sign or signature/s is/are not attested by a witness on the Articles of Agreement of the tender, in the space provided for the purpose.
- 11. This is an item rate tender only. Quantity variation shall be unlimited. A tenderer should quote in figures as well as in words the rate(s) tendered. The amount for each item should be worked out and the requisite totals given. Special care shall be taken to write rates in figures as well as in words and the amounts in figures only and in such a way that interpolation is not possible.
- 12. The tender documents shall have to be filled in either in ink or by ball pen.(Computerized printing can also be entertained)
- 13. This notice of tender shall form part of the contract documents.

	For and on behalf of the Contractor
Date	Signature
	Designation

# FORM OF TENDER

Dear Sir,

Having examined the Contract conditions, specifications, designs and schedule of items/quantities relating to the works specified in the memorandum hereinafter set out and having visited and examined the site of the works specified in the said memorandum and having acquired the requisite information relating thereto as effecting the tender, I/We hereby offer to execute the works specified in the said memorandum within the time specified in the said memorandum at the rates mentioned in the attached schedule of items/quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in conditions of tender, the Articles of Agreement, Special Conditions, Schedule of Items/Quantities and conditions of Contract and with such materials as are provided for, by and in all other respects in accordance with such conditions so far as they may be applicable.

# **MEMORANDUM**

SR NO	CONTENTS	DESCRIPTION
1	Description of Works	Extension (PEB + Civil) above Multipurpose Hall (Aahaar Block) for M/s. Entrepreneurship Development Institute of India, Bhat, Gandhinagar, Gujarat-382428
2 Location		Bhat, Gandhinagar Gujarat-382428
3	Possession of Site	Immediately on issuance of Letter of Intent.
4	Commencement day of Work	Immediately on issuance of Letter of Intent.
5.i	Estimated Cost of Tender	Rs 1, 61, 13,038 /-(Rupees One Crore Sixty One Lakh Thirteen thousand Thirty Eight only).
5.ii	Earnest money	2% of the total value of the contract in the form of bank demand draft favoring M/s. Entrepreneurship Development Institute of India. And same shall be converted in to security deposit after award of the contract. [EMD will be return to unsuccessful bidder within 15 days period after award of the contractor]
6	Security Deposit	2.5% of Interim payment including tender and non-tender items as retention money will be retained from each running account bill.
7	Release of Retention Money	100% Retention money shall be release upon completion of defect liability period [i.e 12 months from issuance of virtual completion certificate]
8	Time of Completion	Time Limit for completion of work by all means 4 months from the issuance of work order

	1	
9	Date and place for collection of Tender Document	Tender papers, contract documents specifications and Schedule of Items/Quantities, etc. can be obtained from the website of the Entrepreneurship Development Institute of India ( <a href="https://www.ediindia.org/Tender.aspx">https://www.ediindia.org/Tender.aspx</a> ) from 06.08.2025 from 10.00 am onwards. The duly filled tender document may be submitted along with a Demand Draft of Rs. 2,000/- in favour EDI of India. The Tender fee shall be non-refundable.
10	Last date of receipt and place of submission of tender document by the bidder	The Tender with a complete set of the tender documents shall be enclosed in a sealed cover super scribed with name of work, Consultant Name and sent through Registered Post/Courier/Hand delivery only, on or before 18:00 hrs. on 26.08.2025, Late tenders, delayed tenders and ordinary post tenders shall not be opened and considered.  Address - To sr. Manager Estate Entrepreneurship Development Institute of India, Near village- Bhat, Apollo hospital  Beside Narayani heights, Gandhinagar, Gujarat-382428
10.A Date of Pre Bid Meeting		On 14 <sup>th</sup> August '2025 at 3:00 PM at EDII, Bhat, Gandhinagar-382428. Bidders are requested to send the queries prior to the Pre Bid meeting Via E-mail.
11	Defect liability period	12 months from the date of virtual completion.
12	Period for submitting of RA Bill	30 Days From the previous submitted Bill Date.
13	Period for Submitting Final Bill	30 Days from the completion of works
14	Liquidated damages for Delay	0.5% per week, maximum up to 5% of the total project value of civil structural works carried out by the contractor
15	Performance Guarantee	The Successful bidder shall provide Entrepreneurship Development Institute of India with 5% of the total contract value as Performance bank guarantee of any of Government/Private/Nationalized Bank in the format prescribed.
16	GST	Rate shall be exclusive of GST and BOCW Cess shall be inclusive.
17	Water Supply	One point of water source to be provided to the contractor. Further arrangement of its distribution for the construction works shall be under contractor's scope. Charges for water supply will be recovered by 1% from every running bill
18	Electricity Supply	One point of Electrical Supply to be provided to the contractor through Energy company and charges for electrical power supply utilized by the contractor as per actual electric rate to be deducted from Running Account Bill.
19	Site Office	Site office to be provided by the contractor at his own cost for consultant and client representative.
20	Registration Class	B Class, with any of the state government/Union territories. However, bidder not having class registration is eligible on satisfying below financial and technical criteria.

21	Eligibility Criteria	The bidder shall have completed, similar nature of works of the following magnitude during the last 5 years.  1. 1 work of at least Rs.1.65 Cr Completed during the last 5 years or  2. 2 works of at least Rs. 1.03 Cr Completed During the Last 5 Years or  3. 3 works of at least Rs. 0.83 Cr Completed during the last 5 Years
22	Bidder Criteria	Joint Venture/sub-contractors for the said works are not allowed. Any form of Canvassing, whether direct or indirect, by the bidder or their representatives, shall result in disqualification of the bidder from consideration, rendering their bid ineligible. Bidder shall be in position to allow for the site visit to the employer/consultant of any one of the sites mentioned as per the completion certificate attached by him.
23.	Similar Works	The Similar works means any of the high-rise building be it residential/institutional/commercial with all services including, electrical works, firefighting, lifts, plumbing, area development, rainwater harvesting pits, generator and pumping Facility etc complete. However, detail breakup of the items to be provided only to the successful bidder.
24	Pre-Qualification Criteria	As per details mentioned under 'Documents to be furnished By bidder.

- 2. Should this tender be accepted, I/We hereby agree to abide by and fulfil the terms and provisions of the said conditions of Contract annexed hereto so far as they may be applicable or in default thereof to forfeit and pay to 'M/s. Entrepreneurship Development Institute of India the amount mentioned in the said conditions.
- 3. I/We have deposited a sum of 2% of the contract value [i.e Rs: \_\_\_\_\_] as earnest money to M/s. Entrepreneurship Development Institute of India, which amount shall not bear any interest. Should I/We fail to execute the contract when called upon to do so, I/We do hereby agree that this sum should be forfeited by me/us to M/s. Entrepreneurship Development Institute of India.
- 4. Till formal Agreement is executed, this tender together with written acceptances thereof, shall constitute a binding contract between the Employer and the Contractor.
- 5. We accept and agree to the fact that you are not bound to accept the lowest or any tender you may receive.

6.	Our Bankers are:
	i)
	ii)
	The names of Partners of our firm are:

ii)

A person having Powe	r of	Attorney	to	sign	the	contract.	(Certified	true	сору	of	the	Power	of	Attorney
should be attached.)														

# Yours faithfully

Sig	nature of tenderer	
	Witnesses:	
1)	Name:	Signature:
	Address	
2)	Name:	Signature:
	Address:	
	PLACE:	
	DATE:	

# DRAFT OF AGREEMENT

ARTICLES OF AGREEMENT made on the of	day of between	M/s. Entrepreneurship	Development
Institute of india, having its Registered office at			_, Ahmedabad
(hereinafter called "the Employer") of the one part and		(hereinafter called "the	Contractor") of
the other part.			

WHEREAS the Employer is desirous of Extension (PEB + Civil) above Multipurpose Hall (Aahaar Block) for M/s. Entrepreneurship Development Institute of India and has caused drawings and specifications describing the works to be prepared by Collaborative design & Axees consultants.

AND WHEREAS the said specifications and the schedule of items/quantities have been signed by or on behalf of the parties hereto.

AND WHEREAS the Contractors has agreed to execute upon and subject to the conditions set forth herein and to the conditions set forth in the Special Conditions and in the schedule of items/quantities and conditions of contract (all of which are collectively hereinafter referred to as "the, said conditions") the works shown upon the said drawings and/or described in the said specification and included in the schedule of items/quantities at the respective rates therein set forth amounting to the sum as therein arrived at or such other sum as shall become payable thereunder (hereinafter referred to as "the said contract amount")

NOW THIS DEED WITNESSETH and it is hereby agreed and declared as follows:

- The Contractor shall upon and subject to the said conditions execute and complete the work shown upon the said drawings and described in the said specifications and the schedule of items/quantities. In consideration of contractor carrying out the work, the Employer shall pay the Contractor the said contract amount or such other sum as shall become payable, at the times and in the manner specified in the said conditions.
- 2. The term 'the Consultants' in the said conditions shall mean the said **Collaborative design & Axees consultants** or, in the event of their ceasing to be the Architect for the purpose of this contract for whatever reason, such other person or persons as shall be nominated for that purpose by the Employer, not being a person to whom the Contractor shall object for reasons considered to be sufficient by the Employer Provided Always that no person or persons subsequently appointed to be Architect under this contract shall be entitled to disregard or overrule any previous decisions or approval or direction given or expressed in writing by the Architect for the time being.
- 3. The said conditions and Appendix hereto shall be read and construed as forming part of this Agreement, and the parties hereto shall respectively abide by, submit themselves to the said conditions and perform the Agreements on their part respectively in the said Conditions contained.
- 4. The conditions and documents mentioned herein shall form the basis of this contract.
- 5. This contract is neither a fixed lump sum contract nor a piece work contract but is a contract to carry out Extension (PEB + Civil) above Multipurpose Hall (Aahaar Block) to be paid according to actual measured quantities at the rates contained in the schedule of items/quantities and probable quantities or as provided in the said conditions.
- 6. The Contractor shall offer every reasonable facility for the carrying out of all works relating to civil works, installation of sanitary work and fittings, permanent water supply, electrical installations, fittings, lifts, telephone, air conditioning, and other ancillary works in the manner laid down in the said conditions, and shall make good any damages done to walls, floors, etc., after the completion of such works.
- 7. The contractor shall follow good construction practices.
- 8. The Employer reserves to itself the right of altering the drawings and nature of the work by adding to or omitting any items of work or having portions of the same carried out without prejudice to this contract.
- 9. Time shall be the essence of this contract and the Contractor hereby agrees to commence the work sooner from seventh day after the date of issue of formal works order as provided for in the said conditions and shall faithfully and honestly do, provide, perform, execute, fulfil, keep, discharge, carry out

and complete the entire work upon the terms and conditions herein contained and those contained in Contract Documents within **Four months** subject nevertheless to the provisions for extension of time.

- 10. All payments by the Employer under this contract shall be made only at **Gandhinagar**.
- 11. Legal and factual possession of the site shall deem to be with Employer. Permission is given to the contractor only for construction work and no right of lien is created of the contractor over the site/construction work under the agreement.
- 12. Employer shall not be liable to the contractor for damages/compensation for breach of contract or otherwise to the contractor and the contractor shall not be entitled to raise any claims, compensation, or damages for breach of contract or otherwise by the employer.
- 13. All disputes arising out of or in any way connected with this Agreement shall be deemed to have arisen at Ahmedabad and only courts in Ahmedabad shall have jurisdiction to determine the same.
- 14. That the several parts of this contract have been read by the Contractor and fully understood by the Contractor.

"IN WITNESS WHEREOF the Employer and the Contractor have set their respective hands to these presents and two duplicates hereof

the day and year first hereinabove written.

IN WITNESS WHEREOF the Employer has its hands to these presents through its duly authorised official and the Contractor has caused its common seal to be affixed hereinto and the said two duplicates/has caused these presents and the said two duplicates hereof to be executed on its behalf, the day and year first hereinabove written.

SIGNED, SEALED AND DELIVERED FOR THE EMPLOYER BY the hand of Shri

(name and designation)

in the presence of

1)

2)

SIGNED, SEALED AND DELIVERED FOR THE CONTRACTOR by

in the presence of

1)

2)

If the party is a partnership or an individual.

If the contractor is a company.

If the party is a Partnership firm or an individual should be signed by all or on behalf of all the Partners.

THE COMMON SEAL OF \_\_\_\_\_ was hereunto affixed pursuant to the resolutions passed by its Board of Directors at the meeting held on in the presence of

1)

If the contractor signs under its common seal, the signature clause should tally with sealing clause in the Articles of Association. If the Contractors signing by the hand of power of attorney whether a company or individual.

Directors who have signed this tender present in token thereof, in the presence of

- 1)
- 2) in the presence of,
- 1)
- 2)

# SPECIAL CONDITIONS OF CONTRACT

1. The following special conditions of contract shall supplement the General Conditions of Contract, whenever there is a conflict, the provision herein shall prevail over those in the general conditions of contract.

2. Amount of Bid Security Earnest Money : 2.0% of the total value of the contract in the form of bank

demand draft favoring **M/s.** Entrepreneurship **Development Institute of India** and same shall be converted or it should be adjusted against the security deposit retained in the form of earnest money, to be refunded on completion of the validity period of EMD.

3. Security Deposit : 2.5% of Interim payment including tender and non tender

items as retention money will be retained from each

running account bill.

4. Period for Completion of the Works : The period of completion for the total **work - 4 calendar** 

Months from the date of signing of contract including

mobilization period.

5. Minimum value of work for certification : 5% of Contract Value or Monthly running account bills of

payment whichever is earlier.

6. Period of honoring certificates : Within 15 days after measurement verification by

Consultant and Employer.

7. Period for Final Measurement : 45 days from issuance of final completion certificate.

8. Defects Liability Period : 12 months from the date of issuance of final completion

Certificate.

9. Equipment & Machinery on Work Site

The contractor will be required to provide and maintain in working order the following power / diesel driven equipment's till completion of work and shall produce calibration/test/performance certificate as desired by Site Engineer:

- (a) Concrete mixer with weigh-batching machine of sufficient numbers and of adequate capacity.
- (b) Mechanically operated hoists or lift, for materials to reach the highest level of building, powered by suitable machinery capable of lifting the bucket with a speed of 50 feet per minute.
- (c) Immersion type and surface type vibrators for consolidation of concrete of any grade and at all stages.
- (d) Sufficient quantity of steel plate or plywood shuttering material as well as wooden/steel rafters having required spans of required strength, adjustable clamps, turn buckles etc. Contractor shall have to submit the shop drawings for the enabling structures like staging, formwork etc. and get the approval thereof before execution.
- (e) Testing equipment's for testing to concrete sand, grit, gravel, mortar etc. as required including small compression testing machine. Adequate nos. of moulds for concrete and cement.
- (f) Water pumps for dewatering from pits, trenches and equipment's for supplying of curing water at every portions of buildings.
- (g) Compressor, jack hammer, drilling bits, welding machine, loader for excavated materials, dumpers, caterpillar, bulldozer, road roller etc.
- (h) Or any other tools / tackles / equipment necessary for the satisfactory and successful execution of the project, if necessary for the statutory requirements.

# 10. Schedule of Materials:

Rates to be quoted by the contractor shall be inclusive of the cost of cement and reinforcement steel as per the given basic rate mentioned in the below mentioned table.

The total responsibility of unloading, storage, safe custody, accountability, testing etc. will be of the contractor. At each stage and at the time of completion of the work, contractor will have to submit a detailed reconciliation statement of cement & steel. Allowable wastage considerations and penalties for the reconciliation of cement and reinforcement steel shall be applicable as per Relevant IS Codes or Architect.

- a. No escalation shall be paid for any construction materials. (Cement, Steel, etc.)
- b. Quantity variation shall be paid as per the item rates.
- c. All invoices of the purchase of any construction materials needs to be submitted along with the running account bills for the record keeping.
- d. Any of the item that is not listed or the part of BOQ, shall be executed and the rates shall be considered as per DSR 2023-24.
- e. However, Contractor shall furnish all the relevant papers related to material procured along with the bills as and when demanded by the employer/consultant.
- f. For the item not listed in the DSR, Contractor shall provide a detailed rate analysis for the item that is operated in extra. However, certification and fair value of the item shall be certified only by the Employer/Consultant.
- g. Contractor shall be deemed to execute each and every item whether the part of the boq or not, as per the instructions of the employer/consultant and shall not delay any of the works for the finalization of the rate part.
- 11 Contractor shall also provide temporary office for the Owner's staff at site, consisting of staff area with common toilet, wash basin & cooler point, project manager's office, one meeting room and necessary electrical points and fittings etc. as per drawing. After completion of the project, all the materials used for the same, shall be contractor's property. The design of the same shall be provided/approved by the Architect.

# 12.1 Testing of Cement / Steel shall be carried out only in NABL Accredited Laboratories.

For the supply of cement and steel / structural steel, it shall be contractor's duty to arrange for the test samples of cement & steel/structural steel for every separate consignment that shall be received by the contractor at site or as directed by the Site Engineer. Contractor will not be reimbursed amount of such bills of test reports carried out at recognized technical institute or laboratories. Other sundry expenditure like transport, handing over of samples, packing and getting test results, even by deputing his personnel will be borne by the contractor.

# 12.2 Material and Equipment

Material	Make
Cement	OPC 53 either from Ultratech or Equivalent shall be used for all concrete works.

Reinforcement	Reinforcement steel from Kamdhenu, Sail, Tata-Tiscon and Vizag shall be used for all necessary reinforcement steel works related to concrete works.			
	Binding wire shall be annealed 16 guage M.s Binding wire to be used [refer item specification]			
Structural Steel	All structural steel work at site will be carried out with either Tata, Jindal or equivalent make, and if not available than contractor need to submit the test report of equivalent brand before procurement and exeuction.			
• PEB	<ul> <li>Material Specifications for Structural Members: <ol> <li>Members fabricated from plate or bar stock shall have flanges and webs joined on both sides of the web by continuous welding; and will confirm to the specification of ASTM A-570 (Grade 50) or equivalent and having yield strength of 50,000 PSI (345 Mpa).</li> <li>All other miscellaneous secondary members shall have minimum yield strength of 36000 PSI (250 Mpa.)</li> <li>Roof and wall cladding shall confirm to ASTM A-446 (Grade-D) or equivalent and having minimum yield strength of 50,000 PSI (345 Mpa).</li> <li>Rod and angle bracing fabrication shall confirm to ASTM A-36 or equivalent and having a minimum yield strength of 36000 PSI (250 Mpa)</li> <li>Beams and columns fabrication shall confirm to ASTM A-500 (Grade-C) or equivalent and having minimum yield strength of 50,000 PSI (345 Mpa.)</li> <li>Pre-painted steel shall confirm to AS-728 class 3-4.</li> <li>Supply steel shall be of Tata / Sail / Essar / JSW only</li> </ol> </li> <li>Girts should have no sagging and should be in perfect alignment.</li> </ul>			
	<ol> <li>Minimum thickness: primary members = 5mm &amp; Secondary members = 1.5 mm.</li> </ol>			
	10. Purlin: - "C' or "Z'			

Contractor will have to use only good / fresh ply shuttering for all concrete element and standard 'H'frames shuttering system to be used.

Contractor has to submit royalty slip against each of material like excavated earth, grit, kapachi and sand to the project engineer / owner.

All concrete of foundation, columns, beams, floor and structural slab or any other concrete element shall be done with weigh batchers of concrete mixer machine. The contractor has to submit design mix report prepared by qualified agency and same shall be approved by the consultant. If the contractor insists for RMC, then he requires prior approval from the Architect / Consultant. RMC shall be Ultratech, Lafarge concrete or Equivalent vendor.

Contractor needs to main water cement ratio for concrete as per IS: 456:2000 [Table: 05]

# 12.3 Test and Test Certificate for Construction Materials and Construction works

Soil Test / Earth Filling by soil brought from outside: The contractor shall take prior approval of soil with test report from the Project Engineer before starting to soil filling works at site.

For site development and plinth area earth filling works, proctor density test shall be carried out as directed by the Consultant / Project Engineer, until the satisfactory values area achieved, further activities cannot be commenced.

The contractor will have to take six numbers of cubes from each batch of concrete during concreting for compressive strength of the contractor at 7 days and 28 days. If cube are fails or shows deficit than the contractor shall repair or re-cast the same element as per consultant's instructions at his own cost.

The contractor has to perform NDT if suggested by the consultant. If the results are not confirmed then contractor will have to redo the works at his own cost.

Material Testing, concrete cube test and any other test inform by the consultant / architect shall be borne by the contractor, no extra shall be paid for such necessary construction testing.

- The quantity for measurement will be actual quantity used in construction (which will be calculated on the basis of standard steel co-efficient). Rolling margin, invisible loss, wastage shall not be paid or billed.
  - I) The contractor shall bear all incidental charges for the storage and safe custody of the materials at site at his own responsibility.
  - II) The contractor shall make arrangement at the site of works for safe custody of materials to protect from damage by rain, dampness, fire, theft etc.
  - III) In case any materials get damaged the contractor shall replace the same at his own cost.
  - IV) The contractor shall furnish to Site Engineer sufficiently in advance a statement showing his requirements of quantities of materials to be supplied by Owner if any and the time when the same will be required by him.
  - V) A day-to-day account of the material supplied by Owner/Contractor shall be maintained by the contractor in the prescribed Performa like Pour Card etc.
  - VI) Only that quantity of steel and reinforcing steel, which is shown in the drawings as finished/fabricated steel, will be measured. No wastage, cutting margins, materials used as laps etc. shall be measured for payment. However, approved laps, chairs and spacers in reinforcing steel be measured.
  - VII) Rate of formwork shall be inclusive of desired size and shape. Rates are also inclusive of forming grooves of required size and shape, forming pattas, patterns, rendering etc. Exposed shuttering also includes finishing and rendering of the same and providing holes for conduits/pipes and other inserts.

# 13 Dewatering.

Rate quoted for various items in schedule of quantities, should include cost of dewatering by any means and at all stages which may be from underground or surface water sources. Contractor will not be paid anything extra for dewatering.

# 14 Application codes for Specification of Civil Works.

The following codes, standards are part of the specifications mentioned/covered under this contract. All standards, tentative specifications, codes of practice referred to herein shall be the latest edition including all applicable official amendments and revisions. Copy of same shall be made available at site all the time for reference.

In case of discrepancy between tender and those referred to herein, IS Specification shall govern.

IS 1077	Common burnt clay building bricks.
IS 2502	Code of practice for bending & fixing of concrete reinforcement.
IS 1905	Structural safety to building.
IS 1786	Specification for cold twisted steel bars for concrete reinforcement.

<u> </u>	
IS 3495	Methods of sampling & testing clay building bricks. (Part I to IV)
IS 2212	Code of practice for brickwork.
IS 2394	Code of practice for application of lime plaster finish.
IS 1443	Code of practice for laying and finishing of cement concrete flooring tiles.
IS 4021	Timber door, window and ventilator frames.
IS 2202	Wooden flush door shutters (solid care) Type Part I
IS 1003	Timber panelled and glazed shutter's part I&II
IS 4020	Methods of tests for wooden flush doors, Thpe test.
IS 1081	Code of practice for fixing and glazing of metal (steel & aluminium) doors, windows and ventilators
IS 233	Code of practice for finishing wood and wood base materials (part)
IS 2395	Code of practice for painting concrete, masonry and plaster surface.
IS 1346	Code of practice for water proofing of roofs with bitumen felts.
IS 783	Code of practice for laying concrete pipes.
IS 1200	Method of measurement of building works.
IS 3764	Safety code for excavation work.
IS 2720	Part II Determination of moisture content.
	Part VII Determination of moisture content dry density relation using light compaction.
	Part VIII Determination of moisture content dry density relation using heavy compaction.
	Part XXVIII Determination of dry density of soils, in place by the said replacement method.
	Part XXIX Determination of dry density of soils in place by the core cutter method.
IS383	Specification for course and fine. Aggregates from natural sources for concrete.
IS 23856	Parts I to VIII methods of test for aggregates.
IS 516	Methods of test for strength of concrete.
IS 1199	Methods of sampling and analysis of concrete.
IS 3025	Method of sampling and test for water.
IS 432	Part I & II Mild and Medium tensile steel bars and hard drawn steel wire, for concrete reinforcement.
IS 4990	Specification for plywood for concrete shuttering works.
IS 2645	Specification for integral cement waterproofing compounds.
IS 2505	Specification for concrete vibrators, immersion types.
IS 2750	Specification for steel scaffoldings
IS 3370	Part I to IV code of practice for concrete structures for storage of liquids.
IS 456	Code of practice for plain & reinforced cement concrete.
IS 9013	Specification for admixtures for concrete.
IS 3414	Code of practice for design and installation of joints in buildings.
IS 4014	Parts I & II code of practice for steel tubular scaffolding.
IS 2571	Code of practice for laying in site cement concrete flooring.
IS 3385	Code of practice for measurement of civil Engg. Works.

IS 73	Specification for paving bitumen.
IS 226	Specification for Structural Steel.
IS 460	Specification for test sieves

# 15 Clearance of site on completion.

On completion of the works, the contractor shall clear away and remove from the site, all constructional plant, surplus materials, rubbish and temporary works of every kind and leave the whole site and works clean and in workman like condition to the satisfaction of Owner at his own cost. If the contractor fails to clear the site within 15 days after virtual completion/ submission of final bill whichever is earlier, it shall forfeit all his claims and the owner may get the site cleared at contractor's cost.

However, during Work execution, if any of the trees fall within the area of the construction, it is the contractor's responsibility to relocate the tree and maintain it during the contract duration without demanding any of the additional charges.

#### 16 Additional Instruction to Bidder.

The contractor shall make water pond at the site at his own cost for curing of cubes and for bricks using in masonry.

The contractor shall provide gunny bags in sufficient quantity for curing of any type of construction works and put water as per guideline / frequency decide by the project engineer.

The contractor shall provide sufficient infrastructure for dewatering from excavation of where ever it is applicable, any delay due to non-availability of resources will not be acceptable.

The contractor shall not demolish, remove or alter the structure, tress or other facilities on the site without prior approval of the client / consultant.

The contractor will have to make provision of cement godowns at his own cost at suitable location in the site as suggested by project engineer / Client. Size of godown will be constructed minimum 18 x 5.5m and height of godown floor will be 0.6m above ground level with zero leakage from roof. After completion of works the contractor shall demolish and take away the debris and shall make good usable area for client as per instruction of client

**Rate Difference:** The quotes are to be calculated as per the market rates. This will be a fixed rate contract. Hence, no escalation in price is allowed during the entire period.

No extra time will be granted if the works affected due to rain. Or any natural calamity

Contractor to submit as built drawings in three sets after completion of the contract.

Contractor shall list down the basic material rates prior to the commencement of the works and submit it to the Employer/Consultant for its approval. Contractor to also furnish relevant material bills as and when demanded by the Employer/Consultant.

Contractor shall bear the deduction in rates if the material procured by them is below the prices as provided in the basic material rates by the contractor.

# **GENERAL CONDITIONS**

# 1. Interpretations:

In constructing these Conditions, the Specifications, Schedule of Items/Quantities and Contract Agreement, the following words shall have the meanings herein assigned to them except where the subject or context otherwise requires.

- a) "Owner/Employer" Shall mean **M/s. Entrepreneurship Development Institute of India** and shall include its successors, legal representatives and assigns.
- b) "Contractor" "Contractor" shall mean the tenderer (person or persons, firm or company), selected by the Owner for the performance of the work and shall include the successors, legal representatives and permitted assigns of the Contractor.
- c) "Site" shall mean the site of the contract works including any building and erections thereon and any other land (inclusively) as aforesaid allotted by Employer for the Contractor's use.
- d) "This Contract" shall mean the Articles of Agreement the General and Special Conditions, the Appendix, the Annexure, the Schedule of Items/Quantities and Specifications attached hereto and duly signed.
- e) "Notice in Writing" or written notice shall mean a notice in written, typed or printed characters sent (unless delivered personally or otherwise proved to have been received) by registered post to the last known private or business address or registered office of the addressee and shall be deemed to have been received when in the ordinary course of post, it would have been delivered.
- f) "Act of Insolvency" shall mean any Act of Insolvency as defined by the Presidency Towns Insolvency Act or any Act amending such original.
- g) "Net Prices" If in arriving at the contract amount the Contractor shall have added to or deducted from the total of the items in the Tender any sum either as a percentage or otherwise then the net price of any item in the tender shall be the sum arrived at by adding to or deducting from the actual figure appearing in the Tender as the price of that item a similar percentage or proportionate sum provided always that in determining the percentage or proportion of the sum so added or deducted by the Contractor the total amount of any Prime Cost items and provisional sums of money shall be deducted from the total amount of the tender. The expression "net rates" or "net prices" when used with reference to the contract or accounts shall be held to mean rates or prices so arrived at.
- h) "Time limit/ shall mean the period in which the construction work is stipulated to be completed. Stipulated time/ Stipulated date"

# 2. General:

- a. In the specifications "as directed"/"approved" shall be taken to mean "as directed"/"approved" by the Client and Architects.
- b. Wherever a reference to any Indian Standard appears in the specifications, it shall be taken to mean as a reference to the latest edition of the same in force on the date of agreement.
- c. The distance which constitutes lead shall be determined along the shortest practical route and not necessarily the route actually taken. The decision of the Site Engineer and Architects in this regard shall be taken as final. Where no lead is specified, it shall mean "all leads".
- d. Lift shall be measured from plinth level.

- e. Reference to specifications of materials as made in the detailed specification of the item of works is in the form of a designation containing the number of the specification of the material and prefix `M' e.g. `M-5'.
- f. No materials shall be stored prior to, during and after execution of a structure in such a way as to cause or lead to damage or overloading of the various components of the structure.
- g. All works shall be carried out in a workman like manner as per the best techniques for the particular item.
- h. The mode, procedure and manner of execution shall be such that it does not cause damage or overloading of the various components of the structure during execution or after completion of the structure.
- i. Special modes of construction not adopted in general Engineering practice, if proposed to be adopted by the Contractor, shall be considered only if the Contractor provides satisfactory evidence that such special mode of construction is safe, sound and helps in speedy construction and completion of work to the required strength and quality. Acceptance of the same by the Site Engineer shall not, however absolve the Contractor of the responsibility of any adverse effects and consequence of adopting the same in the course of execution for the completion of the work.
- j. All installations pertaining to water supply and fixtures thereof as well as drainage lines and sanitary fitting shall be deemed to be completed only after tests of their satisfactory functioning have been carried out by the Contractor and the same have been approved by the Engineer-in- charge.
- k. The Contractor shall be responsible for observing the rules and regulations imposed under the "Minor Minerals Act" and such other laws and rules prescribed by Government from time to time.
- I. The testing charges of all materials shall be borne by the Contractor.
- m. Approval to any of the executed items for the Work does not in any way relieve the Contractor of his responsibility for the correctness, soundness and strength of the structure as per the drawings and specifications.
- 3. **Competency of the Tenderer:** No contract shall be awarded except to responsible bidders capable of performing the class of work contemplated. Before the award of the contract, any bidder may be required to show that he has the necessary facilities, experience, ability and financial resources to perform the work in satisfactory manner within the time stipulated. Contractor may be required to furnish to the Employer, with a statement, as to their experience and their financial status.
- 4. **Security Deposit:** A security deposit (including earnest money deposit) totaling to 2.5 % of the contract value shall be deducted from each running bill. (Total Retention = 2.5%). 100% retention amount shall be released after rectification of the defects, if any, pointed out during the defect's liability period. The amount retained by the Employer shall not bear any interest. All compensation or other sums of money payable by the Contractor to the Employer under the terms of this contract may be deducted from his Earnest Money and Security Deposit. Unless such deposit has become otherwise payable, the Contractor within ten days shall make good in cash the amount so deducted.
- 5. Conditional tender shall not be accepted.
- 6. **Scope of Contract:** The Contractor shall carry out and complete all the work strictly, in every respect, in accordance with the Contract, drawings, specifications, details and with the directions of and to the satisfaction of the Architect and their Associate Consultants. The Architect may in his absolute discretion and from time-to-time issue further drawings (one month before execution) and/or written/verbal instructions, details, directions and explanations which are hereafter collectively referred to as "Architect's Instructions" in regard to:
- a. The variation or modification of the design, quality or quantity of works or the addition or omission or substitution of any work.
- b. Any discrepancy in the Drawings or between the Schedule of Items/Quantities and/or Drawings and/or Specification.
- c. The removal from the site of any materials brought thereon by the Contractor and the substitution of any

other material therefor.

- d. The removal and/or re-execution of any defective works and opening up for inspection of any covered work executed by the Contractor.
- e. The dismissal from the works of any persons employed thereupon.
- f. In case of verbal instructions, directions and explanations given to the Contractor or his representatives upon the works by the Architect shall, if involving a variation, be confirmed in writing by the Contractor within Seven days, and if not dissented from in writing within a further seven days by Architect's such shall be deemed to be Architect's Instructions, within the scope of the Contract.

All work shall be in compliance with the requirements of the local public authorities. If in the opinion of the Architect and the Consultants, changes have to be made, the Contractor shall carry out the same without any extra charges. The Architect's decision in such cases shall be final and shall not be open to arbitration. No change in the drawings is permitted without Architect's written consent. The Contractor shall carry out and complete the said work in every respect in accordance with this Contract.

7. **Tender document, Schedule of items/quantities and drawings:** The Contractor shall be entitled to the certified copy of the accepted tender along with the work order, free of cost and shall also be entitled to receive, on request, two sets of contracts and working drawings according to the progress of work as and when needed, free of cost. The Contractor shall keep one copy of all the drawings on the works and the Architect or his representative shall have, at all times, access to the same.

The several documents forming the contract are essential parts of the contract and requirements occurring in one are a binding as through occurring in all. They are intended to be mutually explanatory and complementary and to describe and provide for a complete work. The contract shall remain in the custody of the Architect and shall be produced by him at his office when required by the Employer or the Contractor.

In the event of any discrepancy in the several documents forming the contract or in any one document, the following order of precedence should apply:

**Dimension and quantities:** (i) Drawings (ii) Schedule of Items/Quantities of the Tender form (iii) Specifications. On drawings, figured dimensions, unless obviously incorrect, shall be followed in preference to scaled dimensions.

**Description:** (i) Schedule of Items/Quantities of the Tender form; (ii) Drawings (iii) Specifications. In the case of defective description or ambiguity or any discrepancy in the item specifications or in absence of specifications for any items, the Architect and Site Engineer is entitled to issue further instructions directing in what manner the work is to be carried out or work shall be carried out as per specifications in the latest IS code. The Contractor cannot take any advantage of any apparent error or omission in drawings or specifications and the Architect and Site Engineer shall be entitled to make corrections and interpretations as necessary to fulfil the plans and specifications.

Before the issue of the final certificate to the Contractor, the Contractor shall forthwith return to the Architect, all documents, drawings and specifications.

- 8. **Contractor to provide everything necessary**: The Contractor shall provide at his cost everything necessary for the proper execution of the works according to the intent and meaning of the Drawings, Schedule of Items/Quantities and Specifications taken together whether the same may or may not be particularly shown or described therein provided that the same can reasonably be inferred therefrom, and if the Contractor finds any discrepancy in the Drawings or between the Drawings, Schedule of Items/Quantities and Specifications he shall immediately and in writing refer same to the Architect who shall decide which is to be followed.
- 9. Work not to be sublet: The Contractor shall not assign or sublet any portion of the contract except with the written consent of the Employer/Architect. In case of breach of these conditions, the Employer may cause the Architect to serve a notice in writing to the Contractor rescinding the contract whereupon the security deposit shall stand forfeited to the Employer, without any prejudice to his other remedies against the Contractor.

10. No alteration, omission or variation shall vitiate this contract but in case the Architect/Consultant thinks proper at any time during the progress of the works to make any alterations in, or additions to, or omissions from, the works or any alteration in the kind or quality of the materials to be used therein and shall give notice thereof in writing under his hand to the Contractor, the Contractor shall alter, add to, or omit from, as the case may, in accordance with such notice, but the Contractor shall not do any work extra to or make any alterations or additions to or omissions from the works or any deviation from any of the provisions of the Conditions of the contract, stipulation, specifications, Schedule of Items/Quantities or contract drawings without the previous consent in writing of the Architect and the value of such extras, alterations, additions or omissions shall in all case be determined by the Architect with the prior approval in writing of the Employer in accordance with the provisions of relevant clause, and the same shall be added to, or deducted from, the contract amount, as the case may be, accordingly.

Any error in description or in quantity or in omission of items from the Schedule of Items/Quantities shall not vitiate this contract but shall be rectified and the value thereof, as ascertained under relevant clause, shall be added to, or deducted from the contract amount (as the case may be) provided that no rectification of errors, if any, shall be allowed in the Contractor's schedule of rates.

- 11. A schedule of probable quantities in respect of each work and specifications accompany these special conditions. Quantities indicated in the Form of Schedules of Rates with respect to various items are only approximate and are intended merely as information without undertaking as to the correction thereof and without any obligation upon the Owner. This schedule is liable to alteration by omission, deductions or additions at the discretion of the Employer/Architect and not subject to any discussions. The Contractor shall carry out any such items with variations in the quantities at the tender quoted rate. Each tender should contain not only the rates but also the value of each item of work entered in a separate column and all the items should be totaled in order to show the aggregate value of the entire tender. Every 'blank' in the form of the tender and in the schedule must be filled up by the tenderer and must return the document sent herewith.
- 12. The tenderer must obtain for himself at his own responsibility and expense all the information which may be necessary for the purpose of making a tender, for entering into a contract, examining the drawings and all matters appertaining thereto. The Contractors shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the prices stated in the Schedule of Items/Quantities, which rates and prices shall cover all his obligations under the Contract, and all matters and things necessary for the proper completion of the works.

The information given in the tender documents and the Plans and Drawings forming part thereof is merely intended as a general information without undertaking on the part of the Employer as to their accuracy and without obligation relating thereto upon the Employer. The tenderers are expected to conducted their own surveys and investigations prior to tendering.

The Contractor shall confirm to the provisions of any Act of the legislature relating to the works, and to the regulations and bye laws of any authority, and of any water, electric supply, other companies and/or authorities with whose systems the structure is proposed to be connected, and shall, before making any variations from the Drawings or Specifications that may be necessitated by so conforming, give to the Architect written notice, specifying the variation proposed to be made and the reason for making it and apply for instructions thereon. In case the Contractor shall not within ten days receive such instructions, he shall proceed with the work confirming to the provisions, regulations, or bylaws in question, and any variation so necessitated shall be dealt with under relevant clause.

The Contractor shall bring to the attention of the Architect all notices required by the said Acts, regulations or bylaws to be given to any authority and pay to such authority, or to any public office all fees that may be properly chargeable in respect of the works, and lodge the receipts with the Architect.

The Contractor shall indemnify the Employer/Architect/ Consultants against all claims in respect of patent rights, and shall defend all actions arising from such claims, and shall himself pay all royalties, license fees, damages, cost and charges of all and every sort that may be legally incurred in respect hereof.

13. **Supply of plants, equipment, formwork, centering, temporary roads, lighting etc.:** The rates quoted in the tender shall include for cleaning of the site before commencement and after completion of the works, for the proper fencing, lighting, grading and taking of the necessary safety measures for all works

comprised in the contract and for the proper provision of temporary road, way, foot-ways, guards, fences, caution notices etc., also for the accommodation of workmen, foot passenger or other traffic and of Employer/s and occupiers of adjacent property and the public and shall remain responsible for any accidents that may occur on account of his failure to take proper & timely precautions.

The Contractor shall not set fire to any standing jungle, trees, brushwood or grass without a written permit from the Architect, Site Engineer and Forest officer. When such permit is given, and also in all cases when destroying cut or dug up trees, brushwood, grass etc. by fire, the Contractor shall take necessary measures to prevent such fire spreading to or otherwise damaging surrounding property.

Contractor shall supply at his own cost all materials (except such special materials if any, as may, in accordance with the contract to be supplied by the Employer), plant, tools, appliances, implements, ladders, cordage, tackle, scaffolding and any temporary works which may be required for the proper execution of the work whether in the original, altered or substituted from and whether included in the specifications, or other documents forming part of the contract or referred to in these conditions or not and which may be necessary for the purpose of satisfying or complying with requirements of the Architect and Site Engineer as to any matter or to which under these conditions he is entitled to be satisfied or which he is entitled to required together with carriage therefore to and from the work.

Erection of all formwork, staging, timbering, shoring etc. as well as taking down and removal of the same when ordered to do so shall be included. The rates quoted shall be inclusive of fully reinstating and making good all matters and things disturbed during the execution of the work and to the satisfaction of the Architects.

All the arrangements made for fencing and lighting shall be maintained by the Contractor throughout the execution of the contract till the physical taking over of the work by Employer.

14. **Setting out the works:** The Contractor shall supply without additional charges the requisite number of persons with the means and material necessary for the purpose of setting out works and checking, weighing and assisting in the measurement or examination at any time and from time to time, of the work or the materials. Failing this, the same may be provided by the Architect and Site Engineer at the expense of the Contractor and the expenses may be deducted from any money due to the Contractor under the contract or from his security deposit, or proceeds of sale thereof, or of a sufficient portion thereof.

The Contractor shall then set out the works and shall be responsible for the true and perfect setting out of the same and for the correctness of the positions, levels, dimensions, and alignment of all parts thereof and for provision of all necessary instruments, appliances and labour in connection therewith. The Contractors shall submit to the Employer and Architects on the site plan recorded levels, contours, margins and the verifications of layout within seven days from the date of getting site layout from Architects/Employers.

If at any time any error in this respect shall appear during the progress of the works or within a period of one year from the completion of the works, the Contractor shall, if so required, at his own cost rectify such error to the satisfaction of the Architect. If, however, such error is based on incorrect data supplied in writing by the Architect and Site Engineer, the expenses of rectifying the same shall be borne by the Employer.

The checking of any setting out or of any line or level by the Architect and Site Engineer or their representative shall not in any way relieve the Contractor of responsibilities, for the correctness thereof. The Contractor shall carefully protect and preserve all bench-marks, site nails, page and other things used in setting out of the work.

Necessary trial pits, of size 5' x 5' x 5', at minimum two locations on the entire site, shall be done by the Contractors at their own expense and the report thereof showing different strata with respective bearing capacities and the same shall be submitted to Employers/ Architects/ Consultants. No extra charges shall be paid for the same.

15. **Item rate tender:** The Contractor should note that unless otherwise stated the tender is strictly on item rate basis and his attention is drawn to the fact that the rates for each and every item should be correct, workable and self-supporting. Quantity variation shall be unlimited. The rates shall also be firm and not

subject to exchange variations, labour conditions, fluctuations in railway freights or any conditions whatsoever. It shall exclude GST part and shall include other taxes/duty or other levy levied by the Central or State Governments or local authorities; sales tax on works contract if applicable. No claim in respect to the above mentioned shall be entertained by the Employer.

16. **Time limit:** Time shall be the essence of the contract. Time allowed for carrying out the work as mentioned in the memorandum shall be strictly observed by the Contractor and it shall be reckoned from the 7th day after written order to commence the work is issued. The tenderer shall, before commencing work, prepare a detailed work schedule which shall be approved by the Consultants and the Employer. This schedule shall be strictly followed by the Contractor. In the event of extension, it shall not be treated as waiver of this clause.

**Liquidated damages/Penalty/:** If the Contractor fails to complete the works by the date stated in the Appendix or within any extended time under relevant clause and if the Architect certifies in writing that in his opinion the same could be reasonably completed, the Contractor shall pay the Employer the sum named in the Appendix as "Liquidated Damages/ Penalty for delayed" for the period during which the said works shall so remain incomplete and the Employer may deduct such damages from any moneys due to the Contractor, in the following manner:

- i) If the contractor fails to complete the work under contract by the stipulated date, he shall pay liquidated damages of 0.5 % of the contract value per week from the date of delaying the said work up to the date of completion and handing over to the Employer.
- ii) However also, if the Contractor fails to complete any part of the work as designated in schedule of items/quantities, by the time indicated against such parts, he shall pay Liquidated damages per week, from the date of delaying the said part of the work, up to the date of completion of the said designated part, at the rate shown in the said schedule of the contract, till the said designated part is completed.
- iii) The aggregate maximum of liquidated damages payable shall be 0.5% of contract value per week and shall be subject to the maximum amount of 5% of the contract amount.
- iv) Delays for requiring payment of 5%, liquidated damages of the amount put to tender for performance shall be sufficient causes for termination of contract and forfeiture of security deposit.

If in the opinion of the Architect the works are delayed

- (a) by force majeure or
- (b) due to exceptionally inclement weather or
- (c) due to delay in proceedings or any dispute with adjoining owners or public authorities arising otherwise than through the Contractor's own fault or
- (d) by delay in works of other Sub-contractors or tradesmen engaged/nominated by the Employer or the Architect and not referred to in the Schedule of Items/Quantities and/or Specification or
- (e) by reason of Architect's instructions as per relevant Clause or
- (f) by reason of civil commotion, local combination of workmen or strike or lockout affecting any of the building trades or
- (g) in case of the Contractor not receiving in due time necessary instructions from the Architect for which he has specifically applied in writing or
- (i) due to delay in supply of materials by the Employer.

The Architect may, with the previous approval in writing of the Employer make a fair and reasonable extension of time for completion of the contract works. In case of such strike or lockout the Contractor shall give written notice to the Architect immediately. But the Contractor shall nevertheless constantly use his endeavors to prevent delay and shall do all that may be reasonably required to the satisfaction of the

Architect to proceed with work. Such extension shall not entitle the contractor to claim escalation in the rate.

17. The Contractor shall furnish, within three days (unless extended by the Architect and Site Engineer) of the order to start the work, the progress schedule in quadruplicate indicating the date of starting, the monthly progress expected to be achieved and the anticipated completion date of each major item of work to be done by him also indicating dates of procurement and setting up the materials, plants and machinery. The Schedule should include a statement of proposed general and detailed arrangements for carrying out works, and of time, order and manner in which it is proposed that these shall be executed. Necessary reports endorsed by the Site Engineers consisting of the labour strength and the materials shall be regularly furnished to the Employer and Architects every week. The Contractor shall include the programme for the fourth-coming week in the same report.

The schedule should be formed keeping in view the time limit and the achievement towards completion of the work within the time limit and of the particular items on the dates specified in the contract and shall have the approval of the Architect and Site Engineer. Further, the dates for the progress, as in this schedule shall be adhered to.

In case it is found necessary, at any stage, to alter the schedule, the Contractor shall submit in good time, a revised schedule incorporating necessary modifications proposed and get the same approved from the Architect and Site Engineer. No revised schedule shall be operative without such acceptance in writing. The Architect and Site Engineer in further empowered to ask for more detailed schedule or schedules, say, week by week, for any item or items and the Contractor shall supply the same as and when asked for.

The Architect and Site Engineer shall have, at all times, the right, without in any way vitiating this contract forming grounds for any claim, to alter the order of the work or any part thereof and the Contractor shall after receive such direction, proceed in the order directed. The Contractor shall also revise the progress schedules accordingly and submit four copies of the revised schedule to the Architect and Site Engineer within seven days of the said Engineer's direction to alter the order of works.

The Contractor shall furnish sufficient plant, equipment and labour and shall work such hours and shifts as may be necessary to maintain the progress of the work as per approved progress-schedule. The working and shift hours shall comply with all Government regulations in force and shall be such, as may be approved by the Architect and Site Engineer and the same shall not be varied without the prior approval of Architect and Site Engineer.

The Contractor shall from time to time, as may be required by the Architect and Site Engineer, furnish the Architect and Site Engineer with a statement in writing of the arrangements he proposes to adopt for the execution of this contract and the Architect and Site Engineer may, if he considers necessary at any time advise alteration in the same, which the Contractor shall adopt on notice thereof.

The progress-schedule(s) shall be in the form of CPM/PERT, forms, statements and/or reports as may be approved by the Architect and Site Engineer. The Contractor shall submit four copies showing the progress of the work in the form of a chart etc. at periodical intervals as may be specified by Architect and Site Engineer.

The approval of the progress-schedules by the Site Engineer shall not relieve the Contractor of any of his duties and responsibilities under the contract. The adoption of any modification in the schedule required by the Architect and Site Engineer shall not entitle the Contractor to any extra payment.

Also, three sets of black & white/color photographs every month showing the progress of work duly endorsed by the site Engineer should be submitted with the report. On completion of the work 5 sets of colour photographs as directed by the Architects should be submitted.

18. If the Contractor after receipt of written notice from the Architect requiring compliance within ten days fails to comply with for further drawings/ instructions the Employer may employ and pay other persons to execute any such work that may be necessary to give effect thereto. All costs incurred in connection therewith shall be recoverable from the Contractor by the Employer on the certificate of the Architect as a debt or may be deducted by him from any moneys due to the Contractor.

19. **Default by Contractor:** If, the Contractor shall neglect or fails to proceed with the work with due diligence or if he violates any of the provisions of the Contract, the Architect and Site Engineer shall give the Contractor a notice, identifying deficiencies in performance and demanding corrective action. Such notice shall clearly state that it is given under the provision of this clause. After service of such notice, the Contractor shall not remove any plant, equipment and material from the site. The Employer shall have a legal claim on all such plant, equipment and material from the date of such notice till the said deficiencies have been corrected as mentioned in the said notice.

If the Contractor fails to take satisfactory corrective action within ten days after receipt of such notice, the Architect and Site Engineer on behalf of the Employer shall terminate the contract in whole. In case, the entire contract is terminated, the amount of security deposit, Earnest money deposit and Retention amount, if any, together with the value of the work done but not paid for, shall stand forfeited to the Employer. The plants equipment and material held under this clause shall then be at the disposal of the Employer to recover the amount equivalent to the liquidated damages and registration of the Contractor shall be kept in abeyance for three years from the date as fixed in all such cases.

The Architect and Site Engineer, if necessary, shall direct that a part or the whole of such plant, equipment and material be removed from the site within a stipulated period, if the Contractor fails to do so, the Architect and Site Engineer shall cause them or any part of them to be sold holding the net proceeds of such sale to the credit of the Contractor. After settlement of accounts, the lien by the Employer on the Contractors remaining plant equipment and balance of material shall be released.

If the Contractor being an individual or a firm or a incorporate company, commits any "act of insolvency", or shall be adjudged as an insolvent or being an Incorporated Company shall have an order for compulsory winding up, made against it or passed as an effective resolution for winding up voluntarily or subject to the supervision of the court and the official Assignee or the Liquidator in such acts of insolvency or winding up, as the case may be, shall be unable within seven days after notice to him requiring him to do so, to show up giving a satisfactory reason to the Architect that he is able to carry out and fulfil the contract and to give security therefor, if so required by the Architect.

Or if the Contractor (whether an individual, firm or incorporate Company) shall suffer execution or other process of court attaching property to be issued against the Contractor.

Or shall suffer any payment under this contract to be attached by or on behalf of any of the creditors of the Contractor.

Or shall assign or sublet this contract without the consent in writing of the Employer first had and obtained.

Or shall charge or encumber this contract or any payments due or which may become due to the Contractor hereunder.

Or if the Architect shall certify in writing to the Employer that the Contractor

- i) Has abandoned the contract, or
- ii) Has failed to commence the works, or has without any lawful excuse under these conditions suspended the progress of the works for fourteen days after receiving from the Architect notice to proceed, or
- iii) Has failed to proceed with the works with such due diligence and failed to make such due progress as would enable the works to be completed within the time agreed upon, or,
- iv) Has failed to remove materials from the site or to pull down and replace work for seven days after receiving from the Architect written notice that the said materials or work were condemned and rejected by the Architect under these conditions, or
- v) Has neglected or failed persistently to observe and perform all or any of the acts, matters or things by this contract to be observed and performed by the Contractor for seven days after written notice shall have been given to the Contractor requiring the Contractor to observe or perform the same.

Then and in any of the said cases the Employer may, notwithstanding any previous waiver, after giving

seven days' notice in writing to the Contractor, terminate the contract, but without thereby affecting the powers of the Architect or the obligations and liabilities of the Contractor, the whole of which shall continue in force as fully as if the Contract had not been so terminated, and as if the works subsequently executed had been executed by or on behalf of the Contractor, And further, the Employer by his agents or servants may enter upon and take possession of the works and all plants, tools, scaffolding, sheds, machinery, steam and other power utensils and materials laying on the premises or the adjoining lands or roads, and use the same as his own property or may employ the same by means of his own servants and workmen in carrying on and completing the works or by employing any other Contractor or other person or persons to complete the works, and the Contractor shall not in any way interrupt or do any act, matter or thing to prevent or hinder such other Contractor or other person or persons employed for completing and finishing or using the materials and plant for the works. When the works shall be completed or as soon thereafter as convenient the Architect shall give a notice in writing to the Contractor to remove his surplus materials and plant, and should the Contractor fail to do so within a period of fourteen days after receipt thereof by him the Employer may sell the same by [Public auction], and give credit to the Contractor for the net amount realized. The Architect shall thereafter ascertain and certify in writing under his hand what (if anything) shall be due or payable to, or by the Employer, for the value of the said plant and materials so taken possession of by the Employer and the expenses or loss which the Employer shall have been put to in procuring the works to be completed, and the amount, if any, owing to the Contractor and the amount which shall be so certified shall thereupon be paid by the Employer to the Contractor or by the Contractor to the Employer, as the case may be, and the certificate of the Architect shall be final and conclusive between the parties.

If, at any time, after the acceptance of the tender, the Employer shall for any reasons whatsoever not require the whole or any part of the works to be carried out, the Architect shall give notice in writing to the Contractor who 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 whole works.

Without prejudice to any of the rights or remedies under this contract, if the Contractor, being an individual, dies, the Employer shall have the option of terminating the contract without incurring any liability for such termination.

Termination of the contract in whole shall be an adequate authority for the Architect and Site Engineer to demand discharge of the obligations from the guarantors of the security for the performance.

20. Notwithstanding any dispute, the contractor shall not stop the work claiming any dispute with the architect/ employer or resolution of the dispute through arbitration or otherwise is pending. Contractor shall continue to work uninterruptedly despite any dispute whether or not resolved or referred to arbitration. If the employer is of the opinion that, contractor is not proceeding with the work because of any dispute the architect/ employer shall be entitled to hold such an act of contractor as an abandonment of the contract.

In the event of the abandonment of the contract the employer shall be entitled to appoint other agency at the risk and cost of the contractor or to carry out the wok departmentally and the contractor shall not obstruct employer, employer's agency in completion of the work/project. if the contractor creates any obstruction in completion of work/project, the employer shall be entitled to forcibly prevent him.

- 21. The Contractor shall not be entitled to any compensation for any loss suffered by him on account of delays in commencing or executing the work due to modifications, delays in connected subcontracts, procurement of government controlled or other building materials, obtaining water and power connections or for any other reasons whatsoever. The Employer shall not be liable for any claim in respect thereof nor accept any liability for any sum provided for therein.
- 22. **Extra works:** The Contractor may, when authorised, and shall, when directed, in writing by the Architects with the approval of the Employer add to, omit from, or vary the works shown upon the drawings, or described in the specification, or included in the Schedule of Items/Quantities, but the Contractor shall make no addition, omission or variation without such authorization or direction. A verbal authority or direction by the Architects shall, if confirmed by them in writing within seven days, be deemed to have been given in writing.

No claim for an extra shall be allowed unless it shall have been executed under provisions of its relevant clause or by the authority of the Architects with the concurrence of the Employer as herein mentioned. Any such extra as herein mentioned, is referred to as authorised extra and shall be made in accordance

with the following provisions.

- i. The net rates or prices in the original tender shall determine the valuation of the extra work where such extra work is of similar character and executed under similar conditions as the work priced therein.
  - ii. Rates for all items, wherever possible, should be derived out of the rates given in the priced Schedule of Items/Quantities, i.e. on pro-rata basis as far as possible.
- Where the extra works are not of similar character and/or executed under similar conditions as aforesaid or where the omissions vary the conditions under which any remaining items of works are carried out or if the amount of any omissions or additions relative to the amount of the whole of the contract works or to any part thereof shall be such that in the opinion of the Architect the net rate of price contained in the Priced Schedule of Items/Quantities or tender or for any items of works involves loss or expense beyond that reasonably contemplated by the Contractor or is by reason of such omission or addition rendered unreasonably or inapplicable, the Architect shall fix such other rate or price as in the circumstances he shall think reasonable and proper, with the prior approval in writing of the Employer, on the basis of prevailing market rate of materials + Estimated cost of Labour + 1.5% Overhead cost of running plant/equipments and Tools [if applicable respect to execution of works then to be paid] + 15% for Contractor overhead & profit. Extra / Non-Tender Items shall be executed only after approval of rate from Architect / Consultant. Architect / Consultant will issue order / certified copy of Non-Tender Items for such extra works.
- Where extra work cannot be properly measured or valued the Contractor shall be allowed day work prices as per the net rates considered at the time of quoting the tender or, if not so considered, then in accordance with the local day work rates and wages for the district; provided that in either case vouchers specifying the daily time (and if required by the Architect, the workmen's names) and materials employed be delivered for verification to the Architect or his representative at or before the end of the week following that in which the work has been executed.

The measurement and valuation in respect of the Contract shall be completed within the "Period of final measurements" stated in the Appendix or if not stated then within six months of the completion of the Contract works as defined in relevant clause.

- 23. The Contractor shall submit in advance a statement of extra items with supporting vouchers/invoices/other necessary supporting documents to Architect's / consultant for approval and certification. Only on approval / certification, he is bound to carry out any extra items of work, necessary for the completion of the job even though the items may not be included in the Schedule of items/quantities. Schedule of instructions in respect of such additional items and their approximate quantities shall be issued in writing by the Architects.
- 24. **Sub-contracts:** For the provisional items/sums indicated in the tender, if the work is awarded directly/separately to a specialized agency. All Specialists, Merchants, Tradesmen and others employed thus to execute any work of provisional items/sums included in the Schedule of Items/Quantities and/or Specifications who may be nominated or selected by the Architect are hereby declared to be Sub-Contractors employed by the Contractor and are herein referred to as nominated Sub-Contractors.

No nominated Sub-Contractors shall be employed in connection with the works against whom the Contractor shall have reasonable objection or (save where the Architect and Contractor shall otherwise agree) who shall not enter into a Contract providing:

- a) That the nominated Sub-Contractor shall indemnify the Contractor against the same obligations in respect of the Sub- Contract as the Contractor is under in respect of this contract.
- b) That the nominated Sub-Contractor shall indemnify the Contractor against claims in respect of any negligence by the Sub-Contractor, his servants or agents or any misuse by him or them of any scaffolding or other plant, the property of the Contractor or under any workmen's compensation Act in force.
- c) Payment shall be made to the nominated Sub-Contractor within fourteen days of his receipt of the Architect's certificate. Also, before any such certificate is issued the Contractor shall upon request

furnish proof to the Architect that all nominated Sub-Contractors accounts included in previous certificates have been duly discharged; in default whereof, the Employer may pay the same upon a certificate of the Architect and deduct the amount thereof from any sums due to the Contractor. The exercise of this power shall not create privity of contract as between Employer and Sub-Contractor.

- 25. The Contractor must co-operate with other Contractors appointed by the Employer so that the work shall proceed smoothly with the least possible delay and to the satisfaction of the Architects.
- Materials, its sample approval, its procurement and storage: The Contractor should make his own arrangement to obtain all materials required for the work, except otherwise stated. All materials shall, so far as procurable, be of the respective kinds described in the Schedule of Items/Quantities and/or specifications and in accordance with the Architect's instructions, and the Contractor shall upon the request of the Architect furnish him with all invoices, accounts, receipts and other vouchers to prove that the materials comply therewith. The Contractor shall at his own cost arrange for and/or carry out any test of any materials which the Architects may require.

The Contractor shall submit, samples of all the finishing materials, to the Architects/ Consultants, for approval, as directed by the Architects/Consultants much in advance, so as to avoid any complications regarding availability. Also, whenever samples are to be prepared for approval the same shall be prepared immediately on receipt of the drawings and got approved by the Architect/ Consultant/Client. The contractors will maintain proper records of materials and other inputs. It shall be periodically reported to the Site Engineer or Architects / Consultant. Contractor shall submit the copy of material inventory along with every R.A. Bill for records and certification.

Approval of the samples of various materials given by the Site Engineer and Architects shall not absolve the Contractor from the responsibility of replacing defective material brought on site or materials used in the work found defective at a later date. The Contractor shall have no claim to any payment or compensation whatsoever on account of any such materials being rejected by the Site Engineer and Architects. No collection of material shall be made before it is approved by the Site Engineer and Architects.

The Architect shall, during the progress of the works, have to order in writing from time to time the removal from the works, within a period specified in the order, of any materials which in his opinion are not in accordance with the specifications or his instructions, the substitution of proper materials, and the removal and proper re-execution of any work executed with materials or workmanship not in accordance with the drawings, specifications or instructions; and the Contractor shall forthwith carry out such order at his own cost. In case of default on the part of the Contractor to carry out such order, the Employer shall have the power to employ and pay other persons to carry out the same; and all expenses consequent thereon, or incidental thereto, as certified by the Architect shall be borne by the Contractor, or may be deducted by the Employer from any moneys due, or that may become due, to the Contractor.

27. **Authorized permissions:** The Contractor shall approach, directly to the Municipal and other authorities for obtaining the type of permission required by law mainly, fire NOC, Plinth Check, Building Use Permission, Water and Sewerage Connection, Permanent Electrical Connection etc all required till the Handing over of the building fit for ready to use purpose.

All fees for the supply of good quality water, including obtaining municipal connection and drainage connection for his labor, building use Permission Charges, Fire NOC etc shall be borne by the Contractor and fees if any payable for permanent connections shall be initially paid by the Contractor and the Employer shall reimburse the amount on production of the receipts.

28. **Electricity:** Employer shall give power supply to the contractor at one point. The Contractor shall install and maintain at its own cost, an electric meter (Electric board supplier/Electric supply Authority, approved and sealed), cables, switches, ELCB branch connection earthings, protective and safety devices etc., approved by Owner/Electrical Consultant for distribution and measurement of the electrical consumption. The Contractor shall also arrange for necessary permission for all electrical installation, cabling etc.

The Contractor shall be responsible for providing and maintaining the whole of the installation on the load side of supply, as well as all safety aspects covered under I.E. act/I.E. rules, National Electric Code etc. All necessary/safety precaution must be taken and the Contractor's electrical installation shall be subject to the approval by the Owner/Engineer in-charge and must comply with the requirement of the

appropriate statutory authorities. Contractor shall not use welding sets for cutting works. Three phase welding machine is preferred.

All charges towards temporary connection shall be paid by the contractor and same shall not be reimbursed. All charges towards permanent connection shall be initially paid by the contractor and the Employer shall reimburse the amount on production of the receipts.

An Energy meter to be installed at site by Power Provider agency for recording the power consumed by the contractor and same shall be recovered at the prevailing rate of electricity by the power provider agency on the basis of actual billing on a monthly basis.

If any point of time, during the period of contract, the energy meter is found to be faulty, the electricity charges shall be recovered from the Running Account Bills of the contractor at 0.5% of the value of work done during the particular period if in case of power failure, the contractor will be liable to arrange alternative arrangement by way of installing DG set & for the same at no additional charges will be paid.

The Contractor's rate and prices shall be deemed to be inclusive of all such charges and costs in respect of supplying and maintaining electrical installation. The Contractor shall not have any claim whatsoever on account of failure of power supply.

If contractor desires, then he can give power connection in the labour colony. Contractor shall not increase the electrical load unless it is approved by Site Engineer. Contractor is responsible for safety of his personnel, and the third party, working in the area of Contractor's work site.

Owner shall have right to disconnect, the power supply for any irregularities observed in the above conditions, and no claim of the Contractor for cost overrun shall be entertained, for loss of time due to the same.

Contractor shall provide licensed Electrical Supervisor/ Electrician for operation and maintenance of his electrical installation.

30. **Water supply:** Employer shall supply water from one point at the site. The Contractor shall arrange at his own cost the required distribution lines. The Contractor shall not have any claim whatsoever on account of failure of water supply at any time. The Contractor's rates and prices shall be deemed to be inclusive of all such charges and costs. Charges for water supply will be recovered by 1% from every running bill.

The Contractor shall arrange for sufficient storage of water to ensure continuity of work. If municipal water is not available and should it be necessary bring water from outside by tankers, the Employer shall not be liable to pay any charges in connection therewith.

- 31. **Adhere to the Safety code:** The Contractor shall strictly comply with the provisions of safety code annexed hereto as well as all laws pertaining to labour etc.
- 32. **Insurance:** The Contractor has to take full insurance for **Workmen's compensation up to Rs 10,00,000/-**, **Third party and Contractor's all risks (CAR)** indemnifying the Employers, Architects and Consultants against all losses and damages arising out of any mishap on site, or any claims whatsoever. Insurance policy has to be approved by Site Engineer or architect. Contractor will have to submit all insurance policies before staring of work at site. Necessary warning signs shall have to be put up by the Contractor.
- 33. **Rolling margin for steel:** For rolling margin of steel bars, no allowances shall be given to the Contractor and the same shall be measured as per standard weight.
- 34. **Testing:** Necessary cube tests, mix design and steel tests shall be done by the Contractors at their own expense and the report thereof showing different strength, compressive and tensile respectively, shall be submitted to Employer, Architect & Consultants. No extra charges shall be paid for the same.

Contractor has to arrange for cube testing machine at site or get it tested from outside laboratory as approved by Site Engineer or Architects, for regular cube tests as per the requirements of consultant and I.S. specifications. Register in the prescribed Performa as per consultant or Architects, showing test result of materials and work tests shall be maintained at the site of work by the Contractor and every

entry thereof shall invariably be signed by the Contractor or his authorised representative in token of its correctness. This register should be submitted at every month along with bill.

35. **Project-in-charge:** The Contractor shall employ full-time technically qualified staff during the execution of the work. Details of probable staff to be appointed at the time of execution shall be submitted at the time of submission of Bid document.

The staff employed for the work must have sufficient experience to handle the work independently. They shall have to stay at the site of work and shall not be entrusted with any other duty except of this work. The Contractor shall inform the Employers/ Architects/ Consultants about the name of the qualified Project-in-charge for necessary co-ordination, discussions, site meetings, and smooth execution of the iob.

36. **Measurements:** All works shall be measured net by standard measure and according to the rules and customs of the Mode of Measurement, IS: 1200, without reference to any local custom.

The Consultant from time to time shall intimate the Contractor and the Employer that he requires the works to be measured. The Contractor shall forthwith attend to or send qualified personnel to assist, in all respects, the Consultant's personnel and Employer's Site Engineer, in taking such measurements and calculations.

In "Mode of Measurement" in the specifications wherever a dispute arises in the absence of specific mention of particular point or aspect, the provisions on these particular points or aspects in the relevant Indian Standards shall be referred to.

All measurements and computations, unless otherwise specified, shall be carried out nearest to the following limits;

- 1) Length, width and depth (height/thickness) ----- 0.01 m.
- 2) Areas------0.01 m<sup>2</sup>
- 3) Cubic Contents----- 0.01 m<sup>3</sup>

In recording dimensions of work, the sequence of length, width and height (depth) or thickness shall be followed.

37. Billing for the entire work shall be in the computerized form o and a conventional hard copy to be submitted. The Architects shall give the format for the same. 60% adhoc payment shall be made on the amount certified by the Site Engineer with in seven days from the date of submission of bill.

A bill, on a soft copy as well with a hard copy, signed by the Site Engineer/Project Engineer, on each page, shall be submitted by the Contractor each month on or before the date fixed by the Architect and Site Engineer for all works executed in the previous month and the Architect and Site Engineer shall take requisite measurement for the purpose of having the same verified and the claim, so far as it is admissible, shall be adjusted, if possible, within ten days from presentation of the bill.

The Contractor shall, on submitting a monthly bill therefore, be entitled to receive payment proportionate to the part of the work then approved and passed by the Architect and Site Engineer, whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the Contractor. All such intermediate payments shall be regarded as payments by way of advance against the final payments only and not as payments for work actually done and completed and shall not preclude the Architect and Site Engineer from required bad, unsound, imperfect or unskilled work to be removed and taken away and reconstructed, or re-erected, nor shall any such payment be considered as an admission of the due performance of the contract or any part thereof in any respect or the accruing of any claims, nor shall it conclude, determine, or affect in any way the power of the Architect and Site Engineer as to the final settlement and adjustment of the accounts or otherwise or in any other way very or effect the contract.

The rates for items of works shall be valid only when the item concerned is accepted as having been completed fully accordance with the sanctioned specifications. In cases where the items of work are

accepted as not so completed, the Architect and Site Engineer may make payment on account of such items at such reduced rates as he may consider reasonable in preparation of final or `on account bill'. The charges to be made in the bills shall always be entered at the rates specified in the agreement or at the part/reduced rates subject to the approval by the Architect and Site Engineer in case of items not completed/ executed as per agreements or in the case of any extra work ordered in pursuance of these conditions and not mentioned or provided for in the tender, at the rate hereinafter provided for such work. The copy of the corrected and certified bill, on the soft copy and in hard copy wherever changes/errors are indicated shall be returned to the Contractor, for his own scrutiny and record. The changes/errors indicated, shall be highlighted in the hard copy, for easy pinpoint of the same.

The Contractor shall be paid by the Employer from time to time by installments under Interim certificates issued by the Architect to the Contractor on account of the works executed in accordance with this contract. The certificates, in the opinion of the Architect, works to an approximate value named in the Appendix as "Value of work for Interim certificates" (or less at the reasonable discretion of the Architect) has been executed, subject however, to a retention of the percentage of such value named in the Appendix hereto as "Retention percentage for Interim certificates" until the total amount retained shall reach the sum named in the Appendix as "Total Retention Money" after which the Installments shall be upto the full value of the work subsequently so executed and fixed in the building. The Architect may in his discretion include in the Interim certificate such an amount, as he may consider proper on account of materials delivered upon the site by the Contractor for use in the works. Once the works have been virtually completed and the Architect have certified in writing that they have been completed, the Contractor shall be paid by the Employer in accordance with the certificate issued by the Architect specifying the sum of money named in the Appendix as "Installment after Virtual Completion" being a part of the said Total Retention Money. The Contractor shall be entitled to the payment of the Final Balance in accordance with the Final Certificate issued in writing by the Architect at expiration of the period referred to as "the Defects Liability Period" in the Appendix hereto from the date of virtual completion or soon after the expiration of such period as the works shall have been finally completed and all defects made good according to the true intent and meaning hereof whichever shall last happen. The issue of such a certificate by the Architect during the progress of the works or at or after their completion shall not relieve the Contractor from his liability under relevant clauses nor relieve the Contractor of his inability in cases of fraud, dishonesty, or fraudulent concealment relating to the works or materials or to any matter dealt with in the certificate, and in case of all defects and insufficiencies in the works or materials which a reasonable examination would not have disclosed. No certificate of the Architect shall of itself be conclusive evidence that any works or materials to which it relates are in accordance with the contract neither shall the Contractor have a claim for any amounts which the Architect might have certified in any interim bill and paid by the Employer and which might subsequently be discovered as not payable and in this respect the Employer's decision shall be final and binding.

The Architect shall have power to withhold any certificate if the works or any parts thereof are not being carried out to his satisfaction.

Contractor should not stop the works at site due to delay from Site Engineer or architect regarding certification of monthly bill.

The Architect may in any certificate make any correction, may it be a certificate, previously certified and issued by him.

The Architect shall issue no certificate of payment if the Contractor fails to ensure the works and keep them insured till the issue of the Virtual Completion Certificate.

Payments upon the Architect's certificate shall be made within the periods named in the Appendix as "Period for honour of certificates" after such certificates has been delivered to the Employer.

If payment of the amount payable by the Employer certified by the Architect shall be in arrears and unpaid for thirty days even after a notice in writing requiring payment, have been given by the Contractor to the Employer, or if the Employer interferes with or obstructs the issue of any such certificate, or if the Employer shall repudiate the contract, or if the works be stopped for three months under the order of the Architect or the Employer or by any injunction or other order of any court of law, then in any of the said cases the Contractor shall be at liberty to determine the contract by notice in writing to the Employer, through the Architect, and he shall be entitled to recover loss he may sustain upon any plant or materials supplied or purchased or prepared for the purpose of the contract.

In arriving at the amount of such payment the net rates contained in the Contractor's original tender shall be followed, or where the same may not apply, valuation shall be made in accordance with relevant clause.

The final bill shall be submitted by the Contractor within forty-five days of the completion of the work, otherwise the Architect and Site Engineer's certificate of the measurements and of the total amount payable for the work shall be final and binding on all parties.

The Employer shall have a right to cause a technical examination of the works and the final bill of the Contractor including all supporting vouchers, abstracts, invoices, material conciliation etc. to be made at the time of payment of the final bill. If as a result this examination or otherwise any sum is found to have been overpaid or over certified it shall be lawful for the Employer to recover the sum.

All payment to the contractor shall be subject to TDS under income tax act and other statutory deduction as applicable from time to time.

- 38. Escalation: No escalation shall be given under any circumstances during contract/ extended period for any reason whatsoever.
- 39. **Work to be covered up:** As soon as the work is completed, the Contractor shall give a notice of such completion to the Architect and Site Engineer and on receipt of such notice, the Architect and Site Engineer shall inspect the work, and if he is satisfied that the work is completed in all respects.
- 40. Defects Liability: Any defect, shrinkage, settlement or other faults which may appear within the "Defects Liability Period" stated in the Appendix here-to or, if non stated, then within twelve months after the virtual completion of the works, arising in the opinion of the Architect from materials or workmanship not in accordance with the contract, shall upon the directions in writing of the Architect, and within reasonable time as shall be specified therein, amended and made good by the Contractor, at his own cost and in case of default the Employer may employ and pay other persons to amend and made good such defects, shrinkage, settlements or other faults, and all damages, loss and expenses consequent thereon or incidental thereto shall be made good and borne by the Contractor and such damage, loss and expenses shall be recoverable from him by the Employer or may be deducted by the Employer, upon the Architect's certificate in writing from any money due or that may become due to the Contractor, or the Employer may in lieu of such amending and making good by the Contractor, deduct from any moneys due to the Contractor, a sum, to be determined by the Architect equivalent to the cost of amending such work and in the event of the amount retained under relevant clause being insufficient, recover the balance from the Contractor, together with any expenses the Employer may have incurred in connection therewith. Should any defective work have been done or material supplied by any Sub- Contractor employed on the works who has been nominated or approved by the Architect as provided in relevant Clause, the Contractor shall be liable to make good in the same manner as if such work or material had been done or supplied by the Contractor and been subject to the provisions of this Clause and relevant clause. The Contractor shall remain liable under the provisions of this Clause notwithstanding the signing of any certificate or the passing of any accounts, by the Architect.
- 41. **Damages**: The Contractor shall provide all necessary fencing and lights required to protect the public form accident and shall also be bound to bear expenses of defence of every suit, action or other legal proceeding at law that may be brought by any person for all injury to persons, animals or things & for all structural and decorative damage to property arising out of negligence/ carelessness, accident or any other cause by the Contractor or any of the nominated Sub-Contractor or any employee of either. Any damages and costs 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, on any claim put up by any such persons, shall be borne by the Contractor.

This clause shall also include for any damage to buildings, whether immediately adjacent or otherwise, any damage to roads, streets, footpaths, bridges or ways as well as all damage caused to the buildings and works forming the subject of this contract by frost, rain, wind or any other adverse weather conditions.

The Contractor shall indemnify the Employer/ Architect/ Consultants and not hold against for any expenses arising from injury or damage to persons or property as aforesaid, for any claim made in

respect of injury or damage under any Acts of any legislature or otherwise and also in case of any award of compensation or damages consequent upon such claim.

The Contractor shall reinstate all damages of every sort mentioned in this clause, so as to deliver up the whole of the contract works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damage to the property of third parties.

The Contractor shall indemnify the Employer against all claims which may be made against the Employer by any member of the public or other third party in respect of anything which may arise in connection to the works or in consequences thereof and shall at his own expense arrange to effect and maintain until the virtual completion of the contract, with an approved office a policy of insurance in the joint names of the Employer and the Contractor against such risks and deposit such policy or policies with the Architect from time to time during the currency of this contract.

The Contractor shall be responsible for any liability which may be excluded from the insurance policies above referred to and also for all other damages to any person, animal or property arising out of the incidental to the negligent or defective carrying out of this contract. He shall also indemnify the Employer in respect of any costs, charges or expenses arising out of any claim or proceedings and also in respect of any award of compensation or damages, arising therefrom.

The Employer shall with the concurrence of the Architect be entitled to deduct the amount of any damage, compensation, costs, charges and expenses arising or accruing from, or in respect of, any such claims or damage from any or all sums due or to become due to the Contractor, without prejudice to the Employer's other rights in respect thereof.

Compensation for all damage done intentionally or unintentionally by Contractor's labours whether in or beyond limits of the Employer's property including any damage caused by the spreading of fire mentioned in the relevant clause, shall be estimated by the Architect and Site Engineer, and the estimates of the Architect and Site Engineer shall be final and the Contractor shall be bound to pay the amount of the assessed compensation of demand, failing which the same shall be recovered from the Contractor, as damages, deducted by the Architect and Site Engineer from any sums that may be due or become due to the Employer, of the Contractor under this contract or otherwise.

The Contractor shall bear the expenses of defending any action or other legal proceedings that may be brought by any person for injury sustained by him owing to neglect of precautions to prevent the spread of the fire and he shall also pay the damages and cost that they may be awarded by the court in consequence.

The Contractor shall be responsible for and shall pay the expenses of providing medical aid to any workmen who may suffer a bodily injury as a result of an accident. If such expenses are incurred by Government, the same shall be recoverable from the Contractor forthwith and be deducted, without prejudice to any other remedy of Government, from any amount due or that may become due to the Contractor.

The Contractor shall provide all necessary personal safety equipment and first-aid apparatus available for the use of the persons employed on the site and shall maintain the same in suitable condition for immediate use at any time and shall comply with the following regulations in connection therewith.

- (a) The workers shall be required to use the equipment so provided by the Contractor and the Contractor shall take adequate steps to ensure proper use of the equipment by those concerned.
- (b) When works is carried out in proximity to any place where there is a risk of drowning, all necessary steps shall be taken for the prompt rescue of any person in danger.
- (c) Adequate provision shall be made for prompt first-aid treatment of all injuries likely to be sustained during the course of the work.
- 42. **Workmen's Compensation Act**: If, for any reason, the Employer is obliged, by virtue of the provisions of the workmen's compensation Act, 1923 or any statutory modification or re-enactment thereof to pay compensation to a workmen employed by the Contractor in execution of the works, the Employer shall be entitled recover from the Contractor the amount of compensation so paid, and without prejudice to the rights of the Employer under the said Act. The Employer 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 the Employer to the

Contractor under this contract or otherwise. The Employer shall not be bound to contest any claim made against it under the said Act, except on the written request of the Contractor and upon his giving to the Employer full security to the satisfaction of the Employer for all costs for which the Employer might become liable in consequence of contesting such claim.

The Contractor shall also similarly indemnify the Employer against all claims which may be made upon the Employer whether under the workmen's compensation Act or any other statue in force during the currency of this contract or at common law in respect of any employee of the Contractor or any Sub-Contractor and shall at his own expense effect and maintain, until the virtual completion of the contract, with an approved office a policy of insurance in the joint names of the Employer and the Contractor against such risks and deposit such policy or policies with the Architect from time to time during the currency of the contract.

43. **Arbitration:** Any dispute/difference arising/relating to or out of the contract between the employer and contractor shall be resolved through arbitration. It is clarified that certificate of architect/Site Engineer with regards to work done shall be binding on the parties and shall not be questioned in the arbitration. Certificate issued by the architect in respect of quality and quantum of work approved by Site Engineer shall be final and binding on the parties.

In case of disputes, the party concerned is required to bring to the notice of the Site Engineer in writing and if not resolved within 30 days from the date of notice, in that case only, the parties shall be at liberty to evoke arbitration clause by 15 days' notice.

Such written notice shall specify the matters which are in dispute or difference of which such written notice has been given and no other shall be and is hereby referred to the arbitration and final decision of an arbitrator to be agreed upon and appointed by both the parties or, in case of disagreements as to the appointment of a single arbitrator, to the appointment of two arbitrators, one to be appointed by each party, which arbitrators shall, before taking upon themselves the burden or reference, appoint an Umpire. The venue for such arbitration shall be at Ahmedabad.

- 44. The Contractor shall on the request of the Architect/Employer immediately dismiss from the works any person employed thereon by him who may, in the opinion of the Architect, be incompetent or misconduct himself and such persons shall not be again employed on the works without the permission of the Architect.
- 45. **Site open for inspection:** The Employer, Architect and their respective representatives shall at all reasonable times have free access to the work and/or to the workshops, factories or other places where materials are lying or from which they are being obtained and the Contractor shall give every facility to the Employer, Architect and their representatives necessary for inspections and examination and test of the materials and workmanship. No person not authorised by the Employer or Architect except the representatives of public authorities shall be allowed on the works at any time.

All works under or in course of execution or executed in pursuance of the contract shall, at all times, be open to the inspection and supervision of the Architect and Site Engineer and his subordinate and the Contractor shall at all times during the usual working hours, and at all other times at which reasonable notice of the intimation of the Architect and Site Engineer or his subordinate to visit the works shall have been given to the Contractor, either himself be present to receive orders and instructions or have a responsible agent duly accredited in writing present for that purpose. Orders given to the Contractor's duly authorised agent shall be considered to have the same force and effect as if they had been given to the Contractor himself.

46. The term "Site Engineer/C.O.W." shall mean the person appointed and paid by the Employer and acting under the orders of the Architect to inspect the works in the absence of the Architect. The Contractor shall afford the Site Engineer/ C.O.W. every facility and assistance for inspecting, checking and measuring the works and materials. Neither the Site Engineer/C.O.W. nor any representative of the Architect shall have power to set out works or to revoke, alter, enlarge or relax any requirements of the contract, or to sanction any day work, additions, alterations, deviations or omissions, or any extra work whatever except that such authority may be specially conferred by the order of the Architect with the prior concurrence in writing of the Employer.

The Site Engineer/C.O.W. or any representative of the Architect, or the Employers shall have power to

give notice to the Contractor or to his representative of non-approval of any work or materials and such work shall be suspended or the use of such materials shall be discontinued until the decision of the Architect is obtained. The work shall from time to time be examined by the Architect, the Site Engineers/C.O.W. or the Architect's representative but such examination shall not in any way exonerate the Contractor from the obligation to remedy any defects which may be found to exist at any stage of the works or after the same is completed. Subject to the limitation of this clause the Contractor shall take instructions only from the Architect.

- 47. The Contractor shall submit three sets of AS BUILT drawings as per progress.
- 48. **Treasure trove :** In the event of the discovery by the Contractor or his employees during the progress of the work, of any treasure trove, fossils, minerals or other articles or things of interest, the Contractor shall immediately give notice thereof, to the Architect and Site Engineer and forthwith hand over the same to them. Such treasure or other things shall be the property of the Department.
- 49. Contractor shall observe compliance of all laws including laws applicable to labour and shall maintain required records and register and submit returns, forms etc. regularly to competent authority/authorities. The contractor furnishes notified/certified true copy of all such records and returns along with-running bill. The contractor shall discharge pecuniary and other liabilities under the labour laws and furnish the proof thereof. The contractor shall permit access to such records, register and returns maintained pertaining to labour to the employer and/or his representative whenever required. The contractor shall preserve the records at least for 3 years after completion of works or such further time required by the employer. The contractor shall indemnify and keep indemnified employer against pecuniary and/or other liabilities for breach of/ non compliance of any labour/ any other laws and shall defend litigation/actions at his cost and consequences in this regards.
- 50. Priority List: The priority list for approval of the materials for all the items of works shall be as follows:
  - a. As approved by the Consultant.
  - b. ISI marked.
  - c. Conforming to IS.
  - d. As per the DSR 2023-24.
  - e. As per the make specified in the relevant item of work.
  - f. Equivalent to the make specified.

# **SAFETY CODE**

- 1. Suitable scaffolds, of sound material, having adequate strength and in proper condition, shall be provided for workmen for all works that cannot be safely done from the ground or from solid construction except such short period work as can be done safely from ladders. When a ladder is used an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well, suitable footholds and handhold shall be provided on the Ladder and the ladder shall be given an inclination not steeper than ¼ to 1 (¼ horizontal and 1 vertical). Scaffolds shall not be overloaded and so far, as practicable the load shall be evenly distributed. Before installing the lifting gear on scaffolds, special precaution shall be taken to ensure strength and stability of the scaffolds. Scaffolds shall be periodically inspected by competent person. Before allowing a scaffold to be used by his workman, the Contractor shall, whether the scaffold has been erected by his workmen or not, take steps to ensure that is complies fully with the regulations herein specified.
- Scaffolding or staging more than 3.25 meters above the ground or solid construction, swung or suspended from an overhead support or erected with stationary support, shall have a guard rail properly attached, bolted, braced and otherwise secured at least 1 meter 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 openings 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 platform, gangways, and stairways shall be so constructed that they do not sag unduly or unequally, and if height of a platform or gangway or stairways is more than 3.25 meters above ground level or solid construction, it shall be closely boarded, have adequate width and be suitably fenced, as described in 2 above.
- 4. Every opening in floor of a building or in a working platform shall be provided with suitable means to prevent fall of persons or materials by providing suitable fencing or railing with a minimum height of 1 meter.
- 5. Safe means of access shall be provided to all working platform and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9 meters in length. Width between side rails in a rung ladder shall in no case be less than 30 cm. for ladders upto and including 3 meters in length. For longer ladders this width shall be increased at least 6 mm. for each additional 30 cm. of length. Uniform step spacing shall not exceed 30 cm.

Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites shall 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 public from accidents and shall be bound to bear 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 costs 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 compromise any claim by any such person.

- 6. **Excavation and Trenching:** All trenches, 1.5 meters or more in depth, shall at all times be supplied with at least one ladder for each 30 meters in length or fraction thereof. Ladder shall be extended from bottom of trench to at least 1 meter above surface of the ground. Sides of a trench which is 1.5 meters 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. Excavated material shall not be placed within 1.5 meters of edge of trench or half of depth of trench, whichever is more. Cutting shall be done from top to bottom. Under no circumstances shall undermining undercutting be done.
- 7. **Demolition:** Before any demolition work is commenced and also during the process of the work
  - a) All roads and open areas adjacent to the work site shall either be closed or suitably protected.
  - b) No electric cable or apparatus which is liable to be a source of danger over a cable or apparatus used by operator shall remain electrically charged;

- c) All practical steps shall be taken to prevent danger to persons employed, from risk or fire or explosion or flooding. No floor, roof, or other part of a 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 Site Engineer shall be available for use of persons employed on the site and maintained in a condition suitable for immediate use; and the Contractor shall take adequate steps to ensure proper use of equipment by those concerned.
  - a) Workers employed on mixing asphaltic materials, cement and lime mortars/concrete shall be provided with protective footwear and protective goggles.
  - b) Those engaged in handling any material which is injurious to eyes shall be provided with protective goggles.
  - c) Those engaged in welding works shall be provided with welder's protective-shields.
  - d) Stone breakers shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
  - e) When workers are employed in sewers and manholes, which are in use, the Contractor shall ensure that manhole covers are opened and manholes are ventilated at least for an hour before workers are allowed to get into them. Manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to public.
  - f) The Contractor shall not employ men below the age of 18 and women on the work of painting with products containing lead in any form. Whenever men above the age of 18 are employed on the work of lead painting, the following precautions shall be taken:
    - i) No paint containing lead or lead products shall be used except in the form of paste or ready.
    - ii) Suitable face masks shall be supplied for use by workers when paint is applied in the form of spray or a surface having lead paint dry rubbed and scraped.
    - iii) Overalls shall be supplied by the Contractor to workmen and adequate facilities shall be provided to enable working painters to wash during and on cessation of work.
- 9. When work is done near any place where there is risk of drowning, all necessary equipment shall be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.
- 10. Use of hoisting machines and tackle including their attachments, anchorage and supports shall confirm to the following:
  - a) i. These shall be of good mechanical construction, sound material and adequate strength and free from patent defects and shall be kept in good repair and in good working order.
    - ii. Every rope used in hoisting or lowering materials or as a means suspension shall be of durable quality and adequate strength, and free from patent defects.
  - b) Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 years shall be in charge of any hoisting machine including any scaffold winch or give signals to operator.
  - c) In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or lowering or as means of suspension, safe working load shall be ascertained by adequate means. Every hoisting machine and all rear referred to above shall be plainly marked with safe working load. In case of a hoisting machine having a variable safe working load, each safe working load and the conditions under which it is applicable shall be clearly indicated. No part of any machine or of any gear referred to above in this paragraph shall be loaded beyond safe working load except for the purpose of testing.

- d) In case of a departmental machine, safe working load shall be notified by the Engineer-in- charge. As regards Contractor's machines the Contractor shall notify safe working load of each machine to the Site Engineer whenever he brings it to site of work and get it verified by the Site Engineer.
- 11. Motors gearing, transmission, electric wiring and other dangerous parts of hoisting appliances shall be provided with efficient safeguards; hoisting appliances shall be provided with such means as shall reduce to the minimum risk of accidental decent of load adequate precautions shall be taken to reduce to the minimum risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energised, insulating mats working apparel such as gloves, sleeves and boots as may be necessary, shall be provided. Workers shall not wear any rings, watches and carry keys or other materials which are good conductors of electricity.
- 12. All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in a safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities shall be provided at or near places of work.
- 13. These safety provisions shall be brought to the notice of all concerned by display on a notice board at a prominent place at the work spot. Persons responsible for ensuring compliance with the safety code shall be named therein by the Contractor.
- 14. To ensure effective enforcement of the rules and regulations relating to safety precautions, arrangements made by the Contractor shall be open to inspection by the Site Engineer or his representatives and the Inspecting Officers.
- 15. Notwithstanding the above conditions 1 to 14 the Contractor is not exempted from the operation of any other Act or Rule in force.
- 16. In addition to the above, the Contractor shall abide by the safety code provisions as per C.P.W.D. safety code framed from time to time.
- 17. The Contractor shall also arrange to obtain valid gate passes for his men and equipment from the concerned authorities of the project.
- 18. No man/material/equipment not covered by valid passes shall be permitted within the project area and no material/equipment shall be permitted to be taken out of the project area, unless the written permission of the Architect/Engineer in-charge.
- When persons are employed on a roof where there is danger of falling from a height exceeding 3.25 m. (to be prescribed) suitable precaution shall be taken to prevent the fall of persons or material. Suitable precautions shall be taken to prevent persons being struck by articles which might fall from scaffolds or other working places.
- 20. The Contractor shall comply with the following regulations as regards the Hoisting Appliances to be used by him:
  - (a) Hoisting machines and tackle, including their attachments, anchorage and supports shall:
    - (i) be of good mechanical construction, sound material and adequate strength and free from patent defect; and:
    - (ii) be kept in good repair and in working order.
  - (b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of suitable quality and adequate strength and free from patent defect.
  - (c) Hoisting machines and tackle shall be examined and adequately tested after erection on the site and before use and be re-examined in position at intervals to be prescribed by Architect and Site Engineer.
  - (d) Every chain, ring, hook, shackle, swivel and pulley block used in hoisting or lowering materials or as a means of suspension shall be periodically examined.

- (e) Every crane driver or hoisting-appliance-operator shall be properly qualified.
- (f) No person who is below age of 15 years shall be in control of any hoisting machine, including any scaffold, nor shall give signals to the operator.
- (g) In the case of every hoisting machine and of every chain, ring, hook, shackle, swivel and pull by block used in hoisting or lowering or as a means or suspension, the safe working load shall be ascertained by adequate means.
- (h) Every hoisting machine and all gears referred to in preceding regulation shall be plainly marked with the safe working load.
- (i) In the case of hoisting machine having a variable safe working load, each safe working load and conditions under which it is applicable shall be clearly indicated.
- (j) No part of any hoisting machine or any gear referred to in regulation `g' above shall be loaded beyond the safe working load except for the purpose of testing.
- (k) Motors, gears, transmissions, electric wiring and other dangerous parts of hoisting appliance shall be provided with sufficient safeguards.
- (I) Hoisting appliances shall be provided with such means as shall reduce to a minimum the risk of the accidental descent of the load.
- (m) Adequate precautions shall be taken to reduce to minimum the risk of any part of a suspended load becoming accidentally displaced.

## **Qualification Criteria**

Qualification will be based on Applicant's meeting all the following minimum pass/ fail criteria regarding the Applicant's general and particular experience, personnel and equipment capabilities and financial positions, as demonstrated by the applicant's responses in the forms attached to the letter of application Subcontractors experience and resources shall not be taken in to account in determining the applicant's compliance with the qualifying criteria.

To qualify for more than one contract, the applicant must demonstrate having experience and resources sufficient to meet the aggregate of the qualification criteria for each contract given.

Base year and Escalation The base year shall be taken as Current financial year following enhancement factors will be used for the costs of works executed and the financial figure to a common base value for works completed in India.

<u>Year</u>	Financial Year	<u>Multiplying factor</u>
Base year of inviting tender	2025-2026	1.00
-1	2024-2025	1.10
-2	2023-2024	1.21
-3	2022-2023	1.33
-4	2021-2022	1.46
-5	2020-2021	1.61

Applicant should indicate actual figures of costs and amount for the works executed by them without accounting for the above-mentioned factors. In case the financial figures and value of completed works are in foreign currency the above enhanced multiplying factors will not be applied. Instead, the current market exchange rate (State Bank of India BC Selling rate as on the last date of submission of the bid) will be applied for the purpose of conversion of the amount in foreign currency into India rupees.

#### 2. General Experience.

The Applicant shall meet with the following minimum criteria:

(a) Achieved a minimum annual financial turnover (defined as billing for works in progress and completed in all classes of civil engineering construction works only) in any one year, over the last five years of the annual value of contract / contracts applied for.

(b)

The works may have been executed by the applicant as prime contractor or as a member of a joint venture or as a nominated sub-contractor.

As subcontractor, he should have acquired the experience of execution of all major items of works under the proposed contract. In case a project has been executed by a joint venture, weight towards experience of the project would be given to each joint venture in proportion to their financial participation in the joint venture. Substantially completed works means those works which are at least 90 % completed as on the date of submission (i.e. gross value of work done up to the Last date of submission is 90 % or more of the original contract price) and continuing satisfactorily.

For these, a certificate from the employers shall be submitted along with the application incorporating clearly the name of the work, contract value, billing amount, date of commencement of works, satisfactory performance of the contractor and any other relevant information.

#### 3. Personnel Capabilities.

Availability for his work of personnel with adequate experience as required; as per Appendix.

### 4. Equipment Capabilities

Based on the studies carried out, the minimum suggested major equipment to attain the completion of works in accordance with the prescribed construction schedule are shown in the Appendix. The bidders should, however, undertake their own studies and furnish with their bid, a detailed construction planning and methodology supported with layout and necessary drawings and calculations to allow the employer to review their proposals. The numbers, types and capacities of each plant/equipment shall be shown in the proposals along with the cycle time for each operation for the given production capacity to match the requirements.

#### 5. Financial Position

The Applicant should give undertaking that he has access to, or has available, liquid assets (aggregate of working capital, cash in hand and uncommitted bank guarantees) and / or credit facilities up to 25 percent of the value of the contract / contracts applied.

The audited balance sheets for the last five years should be submitted, which must demonstrate the soundness of the applicant's financial position, showing long – term profitability including an estimated financial projection for the next two years, If necessary, the employer will make inquiries with the applicant's bankers.

#### 6. Litigation History

The Applicant should provide accurate information on any litigation/black listing or arbitration resulting from contracts completed or under execution by him over the last five years. A consistent history of awards against the Applicant or any partner of a joint venture may result in failure of the applicant.

#### 7. Bid Capacity.

Applicants who meet the minimum qualification criteria will be qualified only if their available bid capacity at the expected time of bidding is more than the total estimated cost of the works. The available bid capacity will be calculated as under:

## Assessed Available Bid Capacity = (A\*N\*2-B),

where A = Maximum value of work executed in any one year during the last five years (updated to the price level of the year indicated in appendix) taking into account the completed as well as works in Progress.

B = Value at current price level of the existing commitments and ongoing works to be completed during the next 1 2 M o n t h s (period of completion of work for which bids are invited); and

N = Number of years prescribed for completion of the works for which the bids are invited.

Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:

Made misleading or false representation in the forms, statements and Attachments the submitted in proof the qualification requirements; and / or Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delay in completion, litigation history, or financial failures etc.;

and/ or

D-

Participated in the previous bidding for the same work and had quoted unreasonably high bid prices and could not furnish rational justification to the employer.

# **Document's to be furnished by the Bidder.**

All Bidders are required to provide detail information as per requirements laid out in the following sections:

C – 1	Declaration / undertaking
C – 2	Company / Firm Related information
C – 3	Information about Bid Capacity
C – 4	Summary of Similar Completed Projects during last 7 years
C – 4a	Detailed information about Similar completed projects by Bidder
C – 5	Quantities Executed by the Bidder during last 5 years
C – 6	Information about Information about the key personnel
C – 6a	Information about Project Approach and Methodology
C – 7	Information about litigation history
C – 8	Information about Construction Plant and Equipment

**Checklist For the Documents submitted** 

## C - 1. Declaration / undertaking

[Letter head of the Bidder firm including full postal addreswebsite]	ss, telephone nos., fax no., telex no., E mail address &
ocation , Dt / _ ]	
To:	
The Manager,	
Entrepreneurship development institute of	f
India	
, Gandhinagar	
Dear Sir,	
Being duly authorized to represent and act on be	ehalf of
• •	in after "the Bidder"), and having reviewed and
fully understood all the prequalification information prequalified by yourselves as a tenderer for the follows:	
Contact Name	Contact Number

Attached to this letter are copies of original documents (attested true copies) defining:

- a) The Bidder's legal status;
- b) Its principal place of business; and
- c) Its place of incorporation (for Applicants which are corporations); or its place of registration (for applicants which are partnerships or individually owned firms).

You and your authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents and information submitted in connection with this application, and to seek clarification from our bankers and clients regarding any financial and technical aspects.

This Letter of Application will also serve as authorization for any individual or authorized representative of any institution referred to in the supporting information, to provide such information deemed necessary and as requested by you to verify statements and information provided in this application, such as the resources, experience, and competence of the Bidder.

This application is made in the full understanding that:

- A) PQ Bids by Bidder/s will be subject to verification of all information submitted for prequalification at the time of bidding.
- B) Client" reserves the right to:
  - a. Amend the scope and value of any contracts tendered under this project, in such event, tenders will only be invited from pre-qualified applicants who meet the revised requirements.
  - b. Reject or accept any application, cancel the prequalification process, and reject all application; and
- Client" shall not be liable for any such actions and shall be under no obligation to inform the Bidder of the grounds for such actions.

The undersigned declare that the statements made and the information provided in the duly completed application are complete, true and correct in every detail.

I/We agree that the decision of "Client" in selection of Bidder, phasing of works and in any other project related matter, will be final and binding to me / us.

Yours Sincerely,

For and on behalf of	
Authorized Signature with stamp	
Name and title of Signatory	
Name of the firm:	
Address	

C – 2. Company / firm related information:

	C – 2. Company / Infinitelated information.	
a)	Name of the organization/firm:	
	Address of the organization/firm:	
	Phone nos.:	
b)	Fax no.:	
	E-mail:	
c)	Name & Particulars of the Authorized	
0,	Representative for the details furnished	
	hereinafter:	
	Annual Turnover of the Bidder for the last 3	
	financial years (in Rs. Crores): 1) 2021-2022	
d)	2) 2022-2023	
u,	,	
	3) 2023-2024 Average:	
	Average:	
	Type of the Organization including particulars of Proprietor / Partners / Directors:	
	(Sole Proprietorship, Partnership, Private Ltd.,	
	Co- operative Body etc.)	
	(Attested copy of Deeds or Memorandum	
e)	of Association to be enclosed)	
	1)	
	2)	
	3)	
	4)	
	Certificates:	
f)	Employees Insurance Schemes Registration     Schemes Registration	
''	Certificates:	
	2) P.F. Registration Certificates.  Name of bankers and full address:	
	1)	
g)	2)	
	Financial Resources of Company:	
	(Rest. in Crores.)	
	•	
	Bank Facilities Available (Please attach copies wherever applicable)	
h)	Overdraft:	
'''	Guarantees:	
	Letters of Credit:	
	Others:	

i)	Information about Registered office, Head office	
•,	and Branch office	

Note: The bidder / applicant should have to fill this information on their company letter head and enclosed separately.

# C – 3. Information about bid capacity:

The bid capacity shall be worked out using the formula: -

**Bid capacity = [A \* N \* 2] - B** = (to be filled by Applicant).

Sr. No.	Nomenclature	Description	Details
01	A	Maximum value of Civil Construction works executed in any one year during last 7 years (as per table – 1 below)	
02	N	Number of years prescribed for completion of work for which bid has been invited.	
03	В	Value of existing commitments against ongoing works that is scheduled to be completed simultaneously with this work i.e., for which bid has been invited (as per table – 2 below)	

# Table – 1, For Calculation of A (As specified in Form A – Criteria B):

	2017 - 18	2018 - 19	2019 - 20	2020 - 21	2021 - 22	2022- 23	2023-24	Maximum Value
Value of Construction work executed (Rs. in lakhs)								

# Table - 2, For Calculation of B:

Sr.	Name of work	Contract Amount	Value of works	Value of existing
No.		(Rs. in Crores)	completed by 31	commitments
			Jan, 2025 (Rs. in	against ongoing
			Crores)	works that is scheduled to be completed
				simultaneously with

			which bid has been invited. (Rs. in Crores)
1			
2			
3			
4			
5			
**			
		Total Value	

<sup>\*\*</sup> Note: Bidder may add rows in the above table (format) as per their list of ongoing project.

C – 4. Summary of completed similar projects by Bidder during last 5 years (ending 29<sup>th</sup> February, 2025):

Sr · N o	Year	Project Name	Client	Actual Project Cost (Rs. lakhs)	Scope of Work which is similar to the project	Project duration (as per contract) (in months)	Actual duration (in Months)
Simi	lar Proj	ect No. – 1					
Simi	lar Proj	ect No. – 2					
Simi	Similar Project No. – 3						
Simi	Similar Project No. – 4						

<sup>\*\*</sup> Bidder may add rows as per their list of executed projects.

#### Note:

Copy of Original or attested copies of work order, final completion certificate from client have to be attached.

C – 4a. Detailed information about Similar Completed Project by Bidder:

1	Project name:	
2	Client:	Name:
		Address:
		Contact number:
3	Architect:	Name:
		Address:
		Contact number:

4	Structural Consultant:	Name:
		Address:
		Contact number:
5	Service Consultants:	Name:
		Address:
		Contact number:
Proje	ct Data:	
1	Type of Project	
	Scope of work which is similar to the	
	project such as exposed concrete work.	
	Tendered Project cost (in Rs. Crores):	
	Actual project Cost (in Rs. Crores):	
2	Technical Data of Project	
	Area of the building( Sq.m)	
3	Project Timeline	
	Project duration (as per contract): (in months)	
	Work done per month (in Rs. Crores) – Certificate from Client to be submitted.	
	Start date as per LOI (dd/mm/yyyy):	
	Actual Completion date as per final completion certificate issued by client	
	(dd/mm/yyyy):	
	Actual duration (Months):	
4	Reasons for delay (if any):	
4	Colored Project Photographs showing be	elow:
	a) Overall view	
	b) PEB Works	
	Finishing of surface	
	<ol><li>Finishing of Building including Painting, Fittings, HVAC, Electrical, fire fighting etc.</li></ol>	
	Additional photographs that may demonstrate the workmanship of work	
	Additional Data	
	Any penalty/ Bonus:	
	Litigation History, If any	
	Any claim/Dispute pending (with details of claim and award if any):	
	Amount of claim / penalty	
	Client Certificates attached:	Yes / No

Note:

Copy of Original or attested copies of work order, final completion certificate from client have to be attached.

# C – 5. Quantities Executed by Bidder during last 5 years (ending 31<sup>st</sup> Dec 2024):

2023		(Rs. lakhs)			
2022					
2021					
2020				_	
2020					
				_	
2019					
				_	
2018					
	2019	2019	2019	2019	2019

Note:

Copy of Original or attested copies of work order, final completion certificate from client have to be attached.

# **C – 6.** Information about the key personnel:

The bidder shall ensure the availability for this work minimum key personnel as given in the following table. Detailed bio-data of the Project Manager and Materials & Quality Control engineer shall be submitted as per the below given forms.

Sr. No.	Personnel	Qualification	No. of Person
1	Project Manager	B.E. Civil + 15 Years Experience (10 Years as Manager)	
2	Senior Site Engineer	B.E. Civil + 8 Years Experience or Dip. Civil + 10 Years Experience	
3	Planning Engineer	M.E. in Construction Management + 5 Years Experience or B.E. Civil + 10 Years Experience	
4	Senior Quantity Surveyor	B.E. Civil + 8 Years Experience or Dip. Civil + 10 Years Experience (4 Years in Similar Work)	
5 Contracts Manager B.E. Civil + 8 Years Experience or Dip. Civil + 10 Years Experience (4 Years in Similar Work)			
6	Plant Engineer	B.E. Civil + 5 Years Experience or Dip. Civil + 8 Years Experience	
7	B E Civil + 5 Vears Experience or		
8	Material & Quality Control Engineer  B.E. Civil + 8 Years Experience or Dip. Civil + 10 Years Experience		
9 Junior Site Engineer B.E. Civil + 5 Years Experience or Dip. Civil + 8 Years Experience		· ·	
Total			

# Form A – Information of Director/owner of company

1	Name	
2	Date of Birth	
3	Qualification with Year	
4	Years of Experience	

Form B - Information of the technical personnel proposed for this Project.

Sr. No.	Proposed position for this project	Name of Candidates
1.		
2.		
3.		
4.		
5.		
6.		
7.		

#### Note:

Bidder will have to submit detailed CV for each person specified in each category as per the prescribed Form- B, below.

## Form C - Curriculum Vitae

1	Proposed position for this project	
2	Name of candidate	
3	Date of Birth	
4	Qualification with Year	
5	Total Experience (in Years)	
6	Years with the present Employer	
	Details of similar projects	
7	executed by applicant **	
7.1	Name of Project	
7.2	Name of Client	

Summarize professional experience over the last 10 years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the Project:

From	То	Company / Project / Position / Relevant technical and management experience / Type of Project
**		

<sup>\*\*</sup> Bidder may add rows as per their list of executed projects.

Sr. No.	Description	Attachment Submitted (Yes or No)	Page No.	Maximum Marks	Marks Obtained
1	Site set up / organization along with details of key personnel as per C-6 Form.				
2	Construction Material & Labour Management Plan				
3	Construction methodology for the proposed work				
4	Workmanship and quality management plan				
5	Construction debris management plan				
6	Timeline management plan describing activities chart and its planned completion time, key milestones / checklist to ensure timely completion of project				
7	Benefits / Advantages of hiring "you" as contractor				

# C – 7. Information about Litigation History: Bidder should provide information on any history or arbitration resulting from contracts in last five year or currently under execution.

Year	Award for / or	Name of Client cause of litigation	Disputed amount in
	Against Bidder	and matter of dispute	Rupees

# Note:-

If the information to be furnished in this schedule will not be given and comes to notice, it will subsequently result in the disqualification of the bidder.

## C – 8. Information about Construction Plant and Equipment.

Sr. No.	Type of Equipment	Capacity	Max. Age as on	No. of Working
140.			31.01.2024	Equipments

1.	D G set	75/125 KVA
2.	Soil compactor	
3.	Needle vibrator	
4.	Concrete batching and mixing plant with automatic control and SCADA system within lead of 3 km	15 Cum/Hr- min. capacity
5.	Machine for laying thermoplastic paint	
6.	Concrete Vibrators- Surface vibrators	As per requirement
7.	Reinforcement cutting and bending Machine	
8.	Transit mixer	4.5 / 6 Cum
9.	Dewatering Pumps	As per requirement
10.	Tippers/ Dumpers	5 / 10 Cum
11.	Hydraulic Motor Grader	
12.	Water tanker/sprinkler	10 cum
13.	Surveying Equipment	
14.	Total Station	
15.	Plate compactor	
16.	Air compressor	
17.	Concrete breaker	
18.	Welding machine	
19.	Shuttering Plates/System	Full height shuttering made from 4 mm thick plate
20.	JCB	
21.	Concrete mixer machine with batching	2 Bag
22.	Hydra Crane	8 Tonne
23.	Tandem Vibratory Roller	Minimum 8 tonne
24.	Tandem Vibratory Roller for compaction of edges (self-propelling)	Minimum operating weight 1 tonne

- The documents regarding ownership of machinery / equipment etc and self-attested copies of hire purchase agreement if it must be enclosed and for to be procured the copy of work order placed shall be furnished.
- If leased indicate the date when the current lease expires.
- Describe the fabrication and workshop facilities (a) to be set up at site

- (b) to be sub contracted locally (c) to be set up any other place with relevant details.
- The above information shall be supported with necessary documents otherwise, the same shall be treated as null & void.
- For equipment on lease/rent, bidder shall submit lease/rental agreement on notarized stamp paper of Rs. 100 for total duration of the project.
- Contractor shall deploy other necessary machinery/equipment not listed here required for construction of the project.

# DETAILS OF EQUIPMENTS WHICH WILL BE USED BY THE BIDDER FOR THE PROPOSED WORKS –

Description (Type, Model Make etc.)	Manufacturer with year of manufacture	Capacity	Nos. proposed to be used for the work.

The Bidder hereby confirms that the quality and type of equipment he will deploy for construction will not be less than listed above, and he agrees to provide more equipment, if so wanted.

#### D. CHECK LIST:

Bidder shall fill this CHECK LIST and ensure that all details / documents as mentioned in the tender documents are submitted along with their Bid. Please tick the box and ensure compliance and specify the Page no. of Pre-Qualification bid submitted.

Sr		Compliance	_		
N o	Details / Documents	(Yes / No)	Page No.		
Doc	uments required for Mandatory Criteria				
1.	Copy of certificate from CA for turnover data along with copy of audited Balance sheets for last three financial years, submitted				
2.	Calculation of Bid Capacity – (Schedule – C – 3), submitted				
3.	Copy of work order and final completion certificate issued by client to the contractor for similar projects along with quantities.				
4.	Summary of similar completed projects (Schedule C – 4)				
5.	Details of similar completed projects (Schedule C – 4a)				
6.	Quantities Executed in similar projects during last 5 years (Schedule C – 5)				
7.	Client's Certificate for Work Start and Completion				
8.	Information about the key personnel (Schedule C – 6)				
9.	Information about Litigation History (Schedule C – 7)				
10.	Information about Construction Plant and Equipment (Schedule C – 8)				

(	Other Documents	
11.	Notarized affidavit for not having black listing history with Government, Semi-Government, Boards or Corporation and etc.	
12.	Copy of P.F. Registration Certificates, submitted	
13.	If name of the firm changed since establishment, details (certificate) for the same, submitted	
14.	Declaration / Undertaking (Form C – 1), Submitted	
15.	Power of Attorney / Authorization letter in favor of signatory of Bid, submitted	
16.	Company / Firm related information (Form $C-2$ ), submitted	
17.	Attested copy of Deeds or Memorandum of Association, submitted	
18.	Copy of Employees Insurance Schemes Registration Certificates, submitted	
19.	Copies of Financial resources / Bank facilities, whichever applicable, submitted	
20.	Profile of Owner / Director along with Passport size Photographs and Qualification certificate submitted	
21.	Curriculum vitae of all key personnel (Form C – 6: Form A, Form B & Form C), submitted	
Doc	uments for complete submission	
22.	Similar Project – along with below mentioned details, submitted	
23.	Evidence of Client / 3rd party audits for Quality assurance system.	
24.	Progress Monitoring Reports for monitoring system signed by Client.	
25.	Photographs for quality of construction as per Form C-4a	

# Letter of Acceptance

(Letter head paper of EDII)

т.		(date)
To, 	_ (Name and address of the Con	tractor)
	_	
Dear Sirs,		
This is to notify	y you that your Bid dated	for execution of
the	(Name of the contract and id	lentification number, as given in the
Instructions to Bidders) for the	Contract Price of Rupees	
() (amount in wo	ords and figures) as corrected a	and modified in accordance with the
Instructions to Bidders* is hereb	by accepted by our agency.	
You are requested to	furnish performance security,	in the form of Bank Guarantee as
detailed below for an amount ed	quivalent to Rs within	10 days of the receipt of this letter of
60 days from acceptance up to	beyond the date of expiry of defe	ects Liability period i.e. up to
	and the Additional Po	erformance Security for an amount
equivalent to Rs.	shall be valid beyond	d 28 (twenty-eight) days of Project
		act, failing which action will be taken.
		Yours Faithfully
		Authorized Signature Name and title of Signatory Name of Employer

	(Name of Employer)		
	(Address of Employe	r)	
contractor) (hereafter cal Contracts No	led "the Contractor") has undertaken, in dates	pursuance	of
furnish you with a Bank G	it has been stipulated by you in the said Contract that the Guarantee by a recognized bank for the sum specified there ation in accordance with the Contract.		
AND WHEREAS we have	e agreed to give the Contractors such a bank Guarantee:		
the Contractor, up to a (amount of guarantee)* types and proportions of c you, upon your first written of	nereby affirm that we are the Guarantor and responsible to total of(in words), such sum being pourrencies in which the Contract prices is payable, and we neemand and without cavil or argument, any sum or s	payable in undertake to pass within the lin	pay nits
or to show grounds or rea	sons for your demand for the sum specified therein.		
We hereby waive the n presenting is with the dem	ecessity of your demanding the said debt from the conand.	ontractor befo	re
the Works to be perform between your and the Co	change or addition to or other modification of the terms of the thereunder or of any of the Contract documents which the contract of the contr	ch may be ma	ade
This guarantee si period.	hall be valid until 60 days from the date of expiring of the	Defect Liabilit	ties
\$	Signature and Seal of the guarantor	Name of Bank	( -
-			
	Address Date		
*An amount shall be in	posted by the Cueronter representing the percenter	a tha Cantra	04 p.r.

<sup>\*</sup>An amount shall be inserted by the Guarantor, representing the percentage the Contract price specified in the Contract denominated in Indian Rupees.

# (Letterhead of EDII)

		(date)
To,		
	(Name and address of the Contractor)	
	_	
	_	
Dear Sirs,		
Pursuant to your furnis	shing the requisite security and signing of the	e Contract for the construction of
		at a bid Price of Rs.
	·	

You are hereby instructed to proceed with the execution of the said works in accordance with the contract documents.

Yours faithfully

(Signature, name and title of signatory authorized To sign on behalf of Employer)

# UNDERTAKING (For Validity)

I, the undersigned do hereby undertake that our firm M/s
agree to abide by this bid for a period days
e fixed for receiving the same and it shall be binding on us and may be accepted at any time before
piration of that period.
(Signed by an Authorized officer of the firm)
Title of office
Name of firm
DATI

#### **INTEGRITY PACT**

This Agreement (hereinafter called the Integrity Pact) is made onday of the month of 202,
between Entrepreneurship Development Institute of India (hereinafter called "EDII"), and M/s
Description of Bidder. (Hereinafter called the "BIDDER").

The expressions "EDII" and "BIDDER" shall mean and include their respective legal representatives, successors in interest, and assigns and shall collectively be referred to as "the Parties" and individually as "the Party".

WHEREAS EDII necessarily requires full compliance with all relevant laws of the land, rules, and regulations, economic use of resources, and fairness/ transparency in relations with its Bidder(s) and/or Contractor(s).

WHEREAS In order to achieve these goals, EDII has appointed Consultants, as detailed in Para 6 of this Pact, to monitor the entire tender process till the final completion of the contract for compliance with the Integrity Pact by all the parties concerned for all works covered in the Contract.

NOW, THEREFORE,

To Avoid all forms of corruption by following a system that is fair, transparent, and free from any influence/ prejudiced dealings prior to, during, and subsequent to the currency of the contract to be entered into;

To Enable EDII to obtain the desired works/ stores/ equipment at a competitive price in conformity with defined specifications by avoiding high cost and distortionary impact of corruption on public procurement, and

To Enable BIDDERs to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that EDII will commit to prevent corruption, in any form, by its officials by following transparent procedures.

# THE PARTIES HERETO HEREBY AGREE TO ENTER INTO THIS INTEGRITY PACT AND AGREE AS FOLLOWS:

#### **Scope**

The Integrity Pact, in respect of the said contract, would be operative from the stage of invitation of bids till the final completion of the contract. Any violation of the same would entail disqualification of the BIDDERs and exclusion from future business dealings as specified in this Integrity Pact.

## **Commitments of officials of EDI**

No officials of EDII, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, any benefit, or any other advantage from the BIDDER, either for themselves or for any person, organization, or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting, or implementation process related to the contract.

EDII will, during the entire tender process stage, treat all BIDDERs with equity and reason. It will provide to all BIDDERs the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERs.

EDII shall obtain bids from only those party/ parties who have been short listed or pre-qualified or through a process of open advertisement/ web publishing or any combination thereof.

In case any misconduct on the part of any official(s) of EDII is reported by the BIDDER to the Director General of EDII with full and verifiable facts and the same is prima facie found to be correct by the Director General of EDII, necessary disciplinary proceedings, or any other action as deemed fit, may be initiated by EDII and such a person shall be removed from further dealings related to the subject contract process. In such situations of misconduct, while an enquiry may stand initiated or may be going on, the progress of bidding, execution, etc. under the contract shall not be stalled.

#### **Commitments of BIDDERs**

The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means, and illegal activities during any stage of bid including pre contract, contract, or post-contract stage. In particular the BIDDER undertakes to abide by the measures given in the following paragraphs.

The BIDDER will not offer, directly or through intermediaries, any bribe, benefit, or any other advantage like commission, fees, brokerage or inducement to any official of EDII, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting, and implementation of the contract.

The BIDDER has not given, offered, or promised to give, directly or indirectly, any bribe or any benefit or other advantage like commission, fees, brokerage, or inducement to any official of EDII or their family members or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract.

The BIDDER will disclose the name and address of its agents and representatives, if any, in India and/ or abroad.

The BIDDER will disclose the payments to be made by them to agents/ brokers or any other intermediary, in connection with this bid/ contract.

The BIDDER further confirms and declares to EDII that the BIDDER has not engaged any individual or firm or company, whether Indian or foreign, to intercede, facilitate, or in any way to recommend to EDII or any of its functionaries, whether officially or unofficially, award of the contract to the BIDDER, nor has any amount been paid, promised, or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation, or recommendation.

The BIDDER will not collude with other parties interested in the contract to impair the competition, transparency, fairness, and progress of the bidding process, bid evaluation, contracting, and implementation of the contract.

The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means, and illegal activities.

The BIDDER will not use for purposes of competition or personal gain, or pass on to others, any information

provided by EDII as part of the business relationship, regarding plans, technical proposals, and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate lest any such information is divulged.

The BIDDER commits to refrain from making any complaint, directly or through any other manner, without supporting it with full and verifiable facts. If the BIDDER submits frivolous or false complaint(s), it will be liable to attract sanctions as mentioned in Para 5 of this Pact.

The BIDDER will not instigate or cause to instigate any third person to commit any of the actions mentioned above.

If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of EDII, or alternatively, if any relative of an officer of EDII has financial interest/ stake in the BIDDER's firm, the same will be disclosed by the BIDDER at the time of filing of tender.

The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956 or any amendment thereto (Annexure-A).

The BIDDER will not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of EDII.

All disclosures required under this Pact shall be included as Annexures/ Appendices thereto as an integral part of this Pact.

If the BIDDER/ Contractor is a partnership or a consortium, this Pact will be signed by all partners or consortium members.

#### **Previous Transgression**

The BIDDER declares that no previous transgression has occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.

The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract and, if already awarded, can be liable to attract sanctions under this Pact.

#### **Sanctions for Violations**

Any breach of the provisions of this Pact by the BIDDER or anyone employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle EDII to take all or any one of the following actions, wherever required:-

To disqualify the BIDDER in pre-award stage without assigning any reason and without any compensation to the

BIDDER. However, the proceedings with other BIDDER(s) would continue.

To take such actions/ steps as per provisions made in the tender documents/ contract, if contract already signed, without giving any compensation to the BIDDER.

To debar the BIDDER from participating in future bidding processes as per EDI's policy on "Suspension/ Banning of Business Dealings" with Agencies" (Annexure-B).

To forfeit, either fully or partially, the Earnest Money Deposit (in pre-contract stage) and/ or Security Deposit/ Performance Bond (after the contract is signed), without assigning any reason therefor.

EDII will also be entitled to take all or any of the actions mentioned under this Para 5 in the event of commission by the BIDDER, or anyone employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal code, 1860, or Prevention of Corruption Act, 1988, or any other statute enacted for prevention of corruption.

The decision of EDII to the effect that a breach of any provision of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER.

The BIDDER shall be liable to pay compensation for any loss or damage to EDII in the event of any action under this Para and EDII shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.

#### **Consultants**

EDII has appointed Consultants for this Pact.

The task of Consultants shall be to review independently and objectively whether, and to what extent, the Parties comply with the obligations under this Pact.

The Consultants shall not be subject to instructions by the representatives of the Parties and perform their functions neutrally and independently.

Both the Parties accept that the Consultants would have a right to access, without restriction, to all Project documentation of EDII and the BIDDER upon request and demonstration of a valid interest by the Consultants. The same is also applicable to sub-contractors of the BIDDER. The Consultants shall be under contractual obligation to treat the information and documents of all the parties with confidentiality.

In case of non-compliance of the provisions of the Integrity Pact, any complaint/ non-compliance can be sent by an aggrieved party, giving specific details of noncompliance with supporting documents, to the designated Nodal Officer of EDII appointed by the DIRECTOR GENERAL. The Nodal Officer, after verification of the complaint, shall refer the complaint/ non-compliance so received by him to the aforesaid Consultant(s). Alternatively, as soon as the Consultant notices a violation of this Pact, or has reason to believe that a violation has occurred, or had received a complaint, he will so inform the DIRECTOR GENERAL of EDII in the first instance.

The Consultants would then examine all complaints, other than anonymous/ pseudonymous complaints, received by them and give their written report to the DIRECTOR GENERAL of EDII within 6 weeks from the date of reference or intimation to him by EDI/ BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

## **Law and Place of Jurisdiction**

This Pact shall be applicable to all tenders invited and finalized in India. This Agreement is subject to Indian Law and the place and jurisdiction for resolving any issue shall be Gandhi nagar, Gujarat.

## **Other Legal Actions**

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

#### Validity.

The validity of this Integrity Pact shall be from the date of its signing and extend up to 5 years or the complete execution of the contract to the satisfaction of both EDII and the BIDDER including Defect Liability/ Warranty period, whichever is later. In case BIDDER(s) is (are) unsuccessful, this Integrity Pact shall cease to be valid on the expiry of two months from the date of award of the contract.

Should any provision of this Pact turn out to be invalid, the remaining parts of this Pact shall remain unaffected which shall be honored and implemented by the Parties in its intent and spirit.

The Parties hereby sign this Integrity Pact at ------ (Full name & Registered Office address) For and on Behalf of For and on Behalf of EDII BIDDER (Full name of Bidder & regd.address)

[This Pact shall be signed by all the partners of Partnership firm).]

Name of the Authorized Officer.	Name of the Authorized Officer
Designation (SEAL)	Designation (SEAL)
Witness	Witness
1.	1
2	2.

Part A	<b>General &amp; Special Condition of Contract</b>

#### **DEED OF INDEMNITY**

	This	Deed o	of Inde	mnity	execute	d at Gai	ndh	ninagar on	the	da	ay of			2025 by			
							_ (I	hereinafter	referred	to as	"the	Obligo	r"	which	expre	ssion s	hall
unless	it be	repugr	ant to	the	context,	subject	or	meaning	thereof,	shall	be o	deemed	to	mean	and	include	its
success	ors a	nd perr	nitted a	ssigr	าร);												

#### IN FAVOUR OF

Entrepreneurship Development Institute of India (EDII), a company registered and incorporated under the Companies Act, 1956 (1 of 1956) and a banking company within the meaning of section 5 (c) of the Banking Regulation Act, 1949 (10 of 1949) having its registered office at Bhat, Gandhinagar-382428. (Hereinafter referred to as "EDII" which expression shall, unless it be repugnant to the subject or context or meaning thereof, be deemed to mean and include its successors and assigns)

## 1 WHEREAS

- (1) The Obligor has
- (a) Agreed to provide to EDII the complete services for the "Extension of 'AAHAR' Block " at Gandhinagar and to provide the services during warranty period as stated in the bid, scope of work and other terms and conditions;
- (b) Represented and warranted that they have all permissions, consents, approvals from all authorities, both regulatory and non-regulatory, for executing their services to EDII;
- (c) Represented and warranted that the aforesaid services offered to EDII do not violate any provisions of the applicable laws, regulations or guidelines including legal and environmental. In case there is any violation of any law, rules or regulation, which is capable of being remedied the same will be got remedied immediately during the installation, maintenance and contract period to the satisfaction of EDII;
- (d) Represented and warranted that they are authorized and legally eligible and otherwise entitled and competent to enter into such contract(s) with EDII;
- (2) EDII, relying and based on the aforesaid representations and warranties of the Obligor, has agreed to avail the services of the Obligor on the terms and conditions contained in its bid and Agreement dated \_\_\_\_\_ (the Agreement) with the Obligor;
- (3) One of the conditions of the aforesaid Agreement is that the Obligor is required to furnish an indemnity in favour of EDII indemnifying the latter against any loss, damages or claims arising out of any violations of the applicable laws, regulations, guidelines during the execution of its services to EDII over the contract period as also for breach committed by the Obligor on account of misconduct, omission and negligence by the Obligor.
- (4) In pursuance thereof, the Obligor has agreed to furnish an indemnity in the form and manner and to the satisfaction of EDII as hereinafter appearing;

#### NOW THIS DEED WITNESSETH AS UNDER:-

In consideration of EDII having agreed to award the aforesaid contract to the Obligor, more particularly described and stated in the aforesaid Agreement, the Obligor do hereby agree and undertake that:-

(1) The Obligor shall, at all times hereinafter, save and keep harmless and indemnified EDII, including its respective directors, officers, and employees and keep them indemnified from and against any claim, demand, losses, liabilities or expenses of any nature and kind whatsoever and by whomsoever made in respect of the said contract and any damage caused from and against all suits and other actions that may be instituted taken or preferred against EDII by whomsoever and all losses, damages, costs, charges and expenses that EDII may incur by reason of any claim made by any claimant for any reason whatsoever or by anybody claiming under them or otherwise for any losses, damages or claims arising out of all kinds of accidents, destruction, deliberate or otherwise, direct or indirect, from those arising out of violation of applicable laws, regulations, guidelines and also from the environmental damages, if any, which may occur during the contract period.

#### Part A

# **General & Special Condition of Contract**

- (2) The Obligor further agrees and undertakes that the Obligor shall, during the contract period, ensure that all the permissions, authorizations, consents are obtained from the local and/or municipal and/or governmental authorities, as may be required under the applicable laws, regulations, guidelines, orders framed or issued by any appropriate authorities.
- (3) The Obligor further agrees to provide complete documentation of 'Extension of 'AAHAR' Block' including warranty certificates of the aforesaid machines, contact numbers of the officials for maintenance related query during warranty and AMC period. The Obligor shall also provide all required information about "Construction of 100 room Hostel Block" for performing the obligations under the Contract. The Obligor shall also indemnify and keep indemnified EDII against any levies / penalties / claims / demands litigations, suits, actions, judgments, and or otherwise ion account of any default and or breach and or otherwise in this regard.
- (4) If any additional approval, consent or permission is required by the Obligor to execute and perform the contract during the currency of the contract, they shall procure the same and/or comply with the conditions stipulated by the concerned authorities without any delay.
- (5) The obligations of the Obligor herein are irrevocable, absolute and unconditional, in each case irrespective of the value, genuineness, validity, regularity or enforceability of the aforesaid Agreement or the insolvency, bankruptcy, re-organisation, dissolution, liquidation or change in ownership of EDII or Obligor or any other circumstance whatsoever which might otherwise constitute a discharge or defense of an indemnifier.
- (6) The obligations of the Obligor under this Deed shall not be affected by any act, omission, matter or thing which, would reduce, release or prejudice the Obligor from any of the indemnified obligations under this indemnity or prejudice or diminish the indemnified obligations in whole or in part, including in law, equity or contract (whether or not known to it, or to EDII).
- (7) This indemnity shall survive the aforesaid Agreement.
- (8) Any notice, request or other communication to be given or made under this indemnity shall be in writing addressed to either party at the address stated in the aforesaid Agreement and or as stated above.
- (9) This indemnity shall be governed by, and construed in accordance with, the laws of India.
- (10) The Obligor irrevocably and unconditionally agrees that in any legal action, suit or proceedings arising out of or relating to any this indemnity may be brought in the Courts/Tribunals at Gandhinagar. Final judgment against the Obligor in any such legal action, suit or proceeding shall be conclusive and may be enforced in any other jurisdiction, by suit on the judgment, a certified copy of which shall be conclusive evidence of the judgment, or in any other manner provided by law. By the execution of this indemnity, the Obligor irrevocably submits to the exclusive jurisdiction of such Court/Tribunal in any such action, suit or proceeding.
- (11)EDII may assign or transfer all or any part of its interest herein to any other person. Obligor shall not assign or transfer any of its rights or obligations under this indemnity, except with the prior written consent of EDII.

	IN	WI	ΓN	ESS	W	HE	RE	OF	the	Ob	ligor	has	sign	ned	these	e pr	esents	on	the	day,	mon	th	and	year	first	above
written.																										
Signed	and	De	live	ered	on	be	half	f of	)																	
									(	(						_			)							

\_\_\_\_\_, the authorized official) of the Obligor

By the hand of

# PRE CONTRACT INTEGRITY PACT Annexure-XIII

#### General

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made onday of the
month of 20, between, EDII. Entrepreneurship Development Institute of India, an institute
having its registered office at Ahmedabad (Near Village Bhat), P.O. Bhat 382428, Dist. Gandhinagar, Gujarat
(hereinafter referred to as "EDII," which expression, unless repugnant to the subject, context, or meaning
thereof, shall be deemed to mean and include its successors and assigns) through its
Department/ Office at,, (hereinafter called the "Employer", which expression shall
mean and include, unless the context otherwise requires, its successors) of the First Part and M/s
represented by Smt/ Shri, Authorised Signatory / POA
Holder / MD/CEO/ CMD (hereinafter called the "BIDDER/ Seller which expression shall mean and include,
unless the context otherwise requires, its/ his successors and permitted assigns) of the Second Part.
WHEREAS the Employer proposes to procure () and BIDDER/ Seller is willing to
offer/ has offered the same to the Employer.
WHEREAS the BIDDER is a private company/public company/ Government
undertaking/partnership/registered export agency, constituted in accordance with the relevant law in the matter
And the Employer is an Office/ Department of EDII performing its functions on behalf of EDII.
NOW. THEREFORE.

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be- entered into with a view to:

- Enabling the Employer to obtain the desired service/ product at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary
- impact of corruption on public procurement; and
- Enabling BIDDERs to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

## 1. Commitments of the Employer

1.1 The Employer undertakes that no official of the Employer, connected directly or indirectly with the contract, will demand, take a promise for or accept directly or through intermediaries, any bribe, consideration, gift, reward, favor or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party (which is not available legally) related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.

- 1.2 The Employer will, during the pre-contract stage, treat all BIDDERs alike, and will provide to all BIDDERs the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERs.
- 1.3 Al I the officials of the Employer will report to the appropriate authority any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
- 2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the Employer with full and verifiable facts and the same is prima facie found to be correct by the Employer, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the Employer and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the Employer the proceedings under the contract would not be stalled.

#### 3. Commitments of the BIDDERs

The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:

- 3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage commission, fees brokerage or inducement to any official of the Employer, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favor, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement (not available legally) to any official of the Employer or otherwise in procuring the Contract or forbearing to door having done any act in relation to the obtaining or execution of the contract or any other contract with EDII for showing or for bearing to show favour or disfavor to any person in relation to the contract or any other contract with EDII.
- 3.3 The BIDDER confirms and declares that they have not made any payments to any agents/brokers or any other intermediary, in connection with this bid/ contract.
- 3.4 The BIDDER further confirms and declares to the Employer that the BIDDER is the original vendor or service provider in respect of product/ service covered in the bid documents and the BIDDER has not engaged with any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the Employer or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any

such intercession, facilitation or recommendation.

- 3.5 The BIDDER, at the earliest available opportunity, i.e. either while presenting the bid or during precontract negotiations and in any case before opening the financial bid and before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the Employer or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of the services agreed upon for such payments.
- 3.6 The BIDDER will not enter into any undisclosed agreement or collude with other parties interested in the contract/ other BIDDERs to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract or with respect to prices, specifications, certifications, subsidiary contracts etc.
- 3.7 The BIDDER will not accept any advantage in exchange for any corrupt practice; unfair means and illegal activities.
- 3.8 The BIDDER shall not use improperly, for purpose of competition or personal gain or pass on to others, any information provided by the Employer as a part of the business relationship, regarding plans, technical proposals and business details including information contained in any Electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 3.9 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.10 The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 3.11 If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the Employer, or alternatively, if any relative of an officer of the Employer has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender.
- 3.12 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the Employer.
- 3.13 The BIDDER/ Contractor shall not directly or through any other person or firm use coercive practices against EDII and/ or other BIDDERs/ Contractor(s).
- 3.14 BIDDERs are not to pass any information provided by the Employer as a part of business relationship to others and not commit any offence under PC/ IPC Act.
- 3.15 Foreign BIDDERs if any, to disclose name and address of agents and representatives in India and Indian Bidders to disclose their foreign principal or associates.

3.16 BIDDERs to disclose any transgressions with any other company that may impinge on anti- corruption principle.

#### 4. Previous Transgressions

- 4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise / Public Sector Banks in India or any Government Department in India or RBI that could justify BIDDER's exclusion from the tender process.
- 4.2 The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

### 5. Earnest Money (Security Deposit)

- While submitting commercial bid, the BIDDER shall deposit an amount (specified in RFP) as Earnest Money/Security Deposit, with the Employer through any of the modes mentioned in the RFP/ bid document and no such mode is specified, by a Bank Draft or a Pay Order in favor of EDII. However, payment of any such amount by way of Bank Guarantee, if so, permitted as per bid documents/ RFP should be from any nationalized Bank and promising payment of the guaranteed sum to the Employer on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the Employer shall be treated as conclusive proof for making such payment to the Employer.
- 5.2 Unless otherwise stipulated in the Bid document/ RFP, the Earnest Money/Security Deposit shall be valid upto a period of five years or the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the Employer, including warranty period, whichever is later.
- 5.3 In case of the successful BIDDER, a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provisions of Sanctions for Violation shall be applicable for forfeiture of Performance Bond in case of a decision by the Employer to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- No interest shall be payable by the Employer to the BIDDER on Earnest Money/ Security Deposit for the period of its currency.

#### 6. Sanctions for Violations

- Any breach of the aforesaid provisions by the BIDDER or anyone employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the Employer to take all or any one of the following actions, wherever required:
  - 6.1.1 To immediately call off the pre contract negotiations without assigning any reason and without giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s)

- would continue, unless the Employer desires to drop the entire process.
- 6.1.2 The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the Employer and the Employer shall not be required to assign any reason therefore.
- 6.1.3 To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
- 6.1.4 To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the Employer along with interest.
- 6.1.5 To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the Employer resulting from such cancellation/ rescission and the Employer shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
- 6.1.6 To debar the BIDDER from participating in future bidding processes of the Employer or any of its subsidiaries for a minimum period of five years, which may be further extended at the discretion of the Employer.
- 6.1.7 To recover all sums paid, in violation of this Pact, by BIDDER(s) to any middle manor agent or broker with a view to securing the contract.
- 6.1.8 Forfeiture of Performance Bond in case of a decision by the Employer to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 6.2 The Employer will be entitled to take all or any of the actions mentioned at para 6.1.1 to 6.1.8 of this Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offense as defined in Chapter IX of Indian Penal Code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.
- 6.3 The decision of the Employer to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Independent External Monitor(s) appointed for the purposes of this Pact.

# 7. Fall Clause

7.1 The BIDDER undertakes that it has not supplied/ is not supplying similar product/ systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/ Department of the Government of India or PSU or any other Bank and if it is found at any stage that similar product/ systems or sub systems was supplied by the BIDDER to any other Ministry/ Department of the Government of India or a PSU or a Bank at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the Employer, if the contract has already been concluded.

#### 8. Independent External Monitors

8.1 The Employer has appointed Independent External Monitors (hereinafter referred to as Monitors or

#### Part A

# **General & Special Condition of Contract**

IEMs) for this Pact in consultation with the Central Vigilance Commission, the Names and Addresses of the Monitors is given as under:

Sr.No.	Name of IEM	Contact Number	E-mail Address
1	Shri Bankim Mehta Retd. Joint secretary industry department. GOG	9427616686	bankimmehta1@gmail.com
2	M.C. Gupta, Legel Faculty	9825091414	mcguptacs@gmail.com

- 8.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
- 8.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 8.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings.
- 8.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the Employer.
- 8.6 The BIDDER(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Employer including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Sub-contractors. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/ Sub-contractor(s) with confidentiality.
- 8.7 The Employer will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.
- 8.8 The Monitor will submit a written report to the designated authority of Employer/Secretary in the Department/ within 8 to 10 weeks from the date of reference or intimation to him by the Employer/ BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

#### 9. Facilitation of Investigation

In case of any allegation of violation of any provisions of this Pact or payment of commission, the Employer or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

## 10. Law and Place of Jurisdiction

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the Employer.

#### 11. Other Legal Actions

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

## 12. Validity

- 12.1 The validity of this Integrity Pact shall be from date of its signing and extend upto 5 years or the complete execution of the contract to the satisfaction of the Employer and the BIDDER/Seller, including warranty period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract, with the successful bidder by the Employer.
- 12.2 Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 13. The parties hereby sign this Integrity Pact at \_\_\_\_\_ on\_\_\_\_.

**IN WITNESS WHEREOF**, the Parties have signed and executed this Integrity Pact at the place and date first hereinabove mentioned in the presence of following witness:

Signature
(For & on behalf of the Employer)

Office Seal

Name
Designation

Witness 1:

(Name & Address)

Witness 2:

(Name & Address)

PROJECT:-ENTREPRENEURSHIP DEVELOPMENT INSTITUTE OF INDIA							
CONSULTANTS: AXEES CONSULTANTS / COLLABORATIVE DESIGN CANTEEN BUILDING							
	CANTEEN BOILDING	1			DSR 2023-24		
SR NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT		
SK NO		UNIT	QII	INATE	AWOUNT		
4	CIVIL WORKS	01111	47.47				
1	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	CU.M	17.17				
2	Providing & Grouting of dowel tubes / Shear keys / Joints of precast members with M-60 grade cementitious grout (Non Shrink) of approved make by suitable means (Free flowing /pump),curing etc. Complete as per directions of Engineer-in-charge. (The payment shall be made on the basis of actual weight of approved grout injected.)Stirrer mixed cementitious grout (non shrink) of approved make in dowel tubes / Shear keys / Joints of precast members.	KG	896.57				
3	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :						
A	Cement mortar 1:6 (1 cement : 6 coarse sand)	CU.M	124.44				
4	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.						
Α	Cement mortar 1:4 (1 cement :4 coarse sand)	SQ.M	339.30				
5	12 mm cement plaster of mix :						
Α	1:4 (1 cement: 4 fine sand	SQ.M	1495.59				
6	6 mm cement plaster of mix :						
Α	1:3 (1 cement : 3 fine sand)	SQ.M	287.21				
7	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge.	SQ.M	674.74				
8	Providing and fixing false ceiling at all heights including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS: 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50 mm long with 6 mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25 mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and f inishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with:						
A	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I):2011 (Board with BIS certification marks)	SQ.M	568.80				

9	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and			
	shades, laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.			
	the joints with write cement and matching pigments etc., complete.			
Α	Size of Tile 600x600 mm	SQ.M	687.24	
10	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete			
Α	Size of Tile 600x600 mm	SQ.M	13.65	
11	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :			
A	25 mm thick	SQ.M	70.86	
12	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	SQ.M	4.33	
13	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS: 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sq.m including pointing the joints with white cement and matching pigments etc., complete.	SQ.M	51.46	
14	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	SQ.M	159.92	
15	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour			
Α	Two coats	SQ.M	2191.68	
16	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	SQ.M	2191.68	
17	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content.			
A	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	SQ.M	2191.68	
18	Finishing walls with ready mixed Premium acrylic emulsion paint (Company Depot Tinted) having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004, Alkali & fungal resistance, dirt resistance exterior paint of required shade with silicon additives.			
A	New work (Two or more coats applied @ 1.43 litre/ 10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm.	SQ.M	674.74	

19	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservior, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50 mm. The work shall be carried out all complete as per specification and the direction of the engineer-incharge. The product performance shall carry guarantee for 10 years			
	against any leakage.			
Α	For horizontal surface one coat @1.10 kg per sqm.	SQ.M	122.32	
20	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.			
A	Granite stone slab of colour black, Cherry/Ruby red			
В	•	SQ.M	42.65	
21	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.			
A	Granite work	R.MT	188.84	
	Composite) solid decorative type flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of f lame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant. WPC to be laminated with PVC foil of minimum 14 microns thick of approved design pasted with hot melt adhesive on both faces of shutter and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In-Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately)	SO M	45.04	
A	35 mm thick	SQ.M	15.94	
23	30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge.	SQ.M	11.59	
24	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double acting hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc.to be paid separately).	SQ.M	4.03	
25	Providing and fixing IS: 12817 marked stainless steel butt hinges with			
A	stainless steel screws etc. complete : 125x64x1.90 mm	NOS	36.00	
26		NOS	6.00	
27	·	NOS	6.00	

28						
	Providing and fixing aluminium work for doors, windows, ventilators and					
	partitions with extruded built up standard tubular sections/ appropriate Z				1	
	sections and other sections of approved make conforming to IS: 733			1	1	
	and IS: 1285, fixing with dash fasteners of required dia and size,					
	· ·					
	including necessary filling up the gaps at junctions, i.e. at top, bottom					
	and sides with required EPDM rubber/ neoprene gasket etc. Aluminium					
	sections shall be smooth, rust free, straight, mitred and jointed					
	mechanically wherever required including cleat angle, Aluminium snap					
	beading for glazing / panelling, C.P. brass / stainless steel screws, all					
	complete as per architectural drawings and the directions of Engineer-in-					
	charge. (Glazing, paneling and dash fasteners to be paid for separately)					
A	Powder coated aluminium (minimum thickness of powder coating 50	KG	307.19			
	micron)					
29	Providing and fixing glazing in aluminium door, window, ventilator					
20	shutters and partitions etc. with EPDM rubber / neoprene gasket etc.					
	complete as per the architectural drawings and the directions of					
	, · · · ·					
	engineer-in-charge . (Cost of aluminium snap beading shall be paid in					
•	basic item):	00.14	00.04			
Α	With float glass panes of 5 mm thickness (weight not less than 12.50	SQ.M	30.64			
	kg/sqm)					
30	Boring with hydraulic piling rigs with power units, providing and installing					
	cast in situ single under reamed piles of specified diameter and length				1	
	below pile cap in M-25 cement concrete, to carry a safe working load not					
	less than specified, excluding the cost of steel reinforcement but					
	including the cost of boring with bentonite solution and the length of the					
	pile to be embedded in pile cap etc. all complete. (Length of pile for					
	payment shall be measured upto to the bottom of pile cap):			1	1	
	payment snail be measured upto to the bottom of pile cap):					
Λ	450 mm dia nilaa		164.00	-	+	
A	450 mm dia piles	R.MT	164.22		1	
31	Vertical load testing of piles in accordance with IS 2911 (Part IV)					
	including installation of loading platform by Kentledge/Anchor piles					
	method and preparation of pile head or construction of test cap and					
	dismantling of test cap after test etc. complete as per specification & the					
	direction of Engineer in-charge.					
A	Single pile upto 50 tonne Safe capacity			1	1	
В		NOS	2.00	-	+	
D	Initial test (Test Load 2.5 times the Safe capacity)	פטוון	2.00			
32	Integrity testing of Pile using Low Strain/ Sonic Integrity Test/ Sonic	NOS	10.00			
32	Echo Test method in accordance with IS :14893 including surface	NOS	10.00			
32		NOS	10.00			
32	Echo Test method in accordance with IS :14893 including surface	NOS	10.00			
32	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill	NOS	10.00			
32	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all	NOS	10.00			
32	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill	NOS	10.00			
	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.	NOS	10.00			
32	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/	NOS	10.00			
	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as	NOS	10.00			
	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated	NOS	10.00			
	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as	NOS	10.00			
33	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.					
33 A	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil	NOS CU.M	188.46			
33	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.					
33 A	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade	CU.M				
33 A	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil	CU.M				
33 A 34	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:	CU.M	188.46			
33 A	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural	CU.M				
33 A 34	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from	CU.M	188.46			
33 A 34	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)	CU.M	188.46			
33 A 34	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)  Providing and laying in position ready mixed or site batched design mix	CU.M	188.46			
33 A 34	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)  Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse	CU.M	188.46			
33 A 34	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)  Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland	CU.M	188.46			
33 A 34	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)  Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in	CU.M	188.46			
33 A 34	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)  Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting	CU.M	188.46			
33 A 34	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)  Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing	CU.M	188.46			
33 A 34	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)  Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting	CU.M	188.46			
33 A 34	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)  Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing	CU.M	188.46			
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33 A 34	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)  Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the	CU.M	188.46			
33 A 34	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)  Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.: Note: Extra cement up to 10% of the	CU.M	188.46			
33 A 34	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)  Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete: Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable	CU.M	188.46			
33 A 34	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)  Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete:: Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110%	CU.M	188.46			
33 A 34	Echo Test method in accordance with IS :14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)  Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete:. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have	CU.M	188.46			
33 A 34	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)  Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete:: Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110%	CU.M	188.46			
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33 A 34 A	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)  Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete: Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix shall be payable separately. In case the cement content in design mix shall be payable discretion to either re-design the mix or bear the cost of extra cement.	CU.M	188.46			
33 A 34	Echo Test method in accordance with IS :14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)  Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete:. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have	CU.M	188.46			
33 A 34 A	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)  Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete: Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix shall be payable separately. In case the cement content in design mix shall be payable discretion to either re-design the mix or bear the cost of extra cement.	CU.M	188.46			
33 A 34 A 35	Echo Test method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.  Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.  All kinds of soil  Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:  1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources)  Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.: Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.	CU.M	188.46			

36	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.: Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
A	All works above plinth level upto floor V level				
В	Concrete of M25 grade with minimum cement content of 330 kg /cum	CU.M	107.36		
37	Centering and shuttering including strutting, propping etc. and removal of form for				
Α	Foundations, footings, bases of columns, etc. for mass concrete	SQ.M	46.66		$\neg$
В	Lintels, beams, plinth beams, girders, bressumers and cantilevers	SQ.M	104.64		$\neg$
С	Columns, Pillars, Piers, Abutments, Posts and Struts	SQ.M	295.36		
D	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	SQ.M	242.14		
E	Suspended floors, roofs, landings, balconies and access platform	SQ.M	201.16		
38	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
Α	Cement mortar 1:6 (1 cement : 6 coarse sand)	CU.M	3.82		
39	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift.	CU.M	184.62		
40	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor:				
A	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	SQ.M	61.04		
41	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete			 	
А	Thermo-Mechanically Treated bars of grade Fe-500D or more	KG	19682.73		

	PEB WORKS			
43	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.			
A	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	KG	2913.04	
44	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	KG	22364.52	
45	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :			
Α	Two or more coats on new work	SQ.M	609.15	
42	Providing and fixing bolts including nuts and washers complete.	KG	340.86	
30	Thermal Insulation of roofing with Expanded polystyrene fixed with suitable adhesive to the false ceiling as per the directions of the Engineer in-charge:			
Α	With Type SE - Self Extinguishing type 50 mm thick	SQ.M	568.80	
31	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-Charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05mm) with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	SQ.M	568.80	

32	Providing and fixing precoated galvanised steel sheet roofing accessories of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) with Zinc coating 120 gram per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete:			
A	Ridges plain (500 - 600mm)	R.MT	70.31	
В	Gutter (600 mm over all girth	R.MT	52.33	
33	Supplying and fixing in position factory insulated sandwich panel for Roofing / cladding minimum 100mm thick with facings made up of prepainted galvalume, not less than 0.50mm thick (TCT) on top and 0.50mm thick on the bottom with 550 Mpa yield strength. The core material shall be made up of rigid polyurethane foam (PUF) conforming to IS 12436 and of density around $40 \pm 2$ kg/m³ fixed with self tapping screws incuding necessary supplementary fittings, butyl tape, joint fillers, joint laps, making provision for accessories, necessary cutouts / openings, supports for joinery as required, etc., along with the PUF end caps and all exposed surfaces are protected with masking 80mm Thk core PUF and 100mm Thk overall thickness include crest, etc., all complete as per manufacturer's specification and as directed by the Engineer-in-Charge.  Note:  (ii) The quoted rate shall be inclusive of overlaps and wastages.  (iii) A performance guarantee bond for 10 years for leak proof roofing shall be given by the contractor on non-judicial stamp paper of Rs.500/ The 10% of completed value of this item shall be dedcuted as defect liability deposit and the same shall be returned after successful completion of 10 years from the date of completion of contract / project as a whole.	SQ.M	214.71	
NOTES:		<u> </u>		
1)	GST will be applicable extra as actual.			
2)	If there is any extra item other than this, the rate of extra item has to be o	decided bef	ore the work.	
3)	In this BOQ, Nos.of items and quantity may change or vary based on det structural design drawings.	ailed archit	ectural and	
4)	BOQ consist of only those items as provided in drawings.			
5)	The Item Description for the Boq are based on DSR -23-24.			

	ELECTRICAL WORKS				
SR. NO.	PARTICULAR	UNIT	TOTAL QTY	RATE	TOTAL AMOUNT
Α	CABLE LAYING / TERMINATION / CABLET TRAY & STEEL STRUCTURE				+
	Laying horizontally and vertically of XLPE insulated cables of following sizes on cable				
	trays, supported on steel structures, in ready made trenches and / or to pull-through				
	pipes. The rates shall include Installation, testing and commissioning of a G.I. saddles /				
1	clamps, saddle bars, etc, including transportation from owner's site store to the place of				
	installation, unpacking and return the cable drums to site stores with all labour and				
	materials as per the standard specifications, drawings and directions of 'Engineer-in-				
1.01	4C X 6sqmm CU Flexible	Mtr	175.0		1
1.02	4c x 16 sqmm XLPA AL	Mtr	70.0		
	4c x 25 sqmm XLPA AL	MTR	100.0		
	3.5c x 35 sqmm XLPA AL	Mtr	75.0		
	3.5c x 50 sqmm XLPA AL 3.5c x 70 sqmm XLPA AL	MTR MTR	80.0 115.0		+
-	3.5c x 95 sqmm XLPA AL	MTR	75.0		+
1.07	0.00 X 00 Oquilli XEI X XE	141111	1 1		
	Supply & Termination of XLPE insulated cables of different sizes and connection of the				
	Leads including supply of weatherproof single compression type cable glands and tinned				
0.00	copper lugs, including cutting / stripping of cable insulation, Installation, testing and				
	commissioning of cable glands, crimping of the cable cores, marking with wire number				
	ferrules, etc., including all labour and materials, as per standard specifications and				
	directions of 'Engineer-in-charge.				
2.01	4c x 6 sqmm 2XWY	Ea	16.0		
	4c x 16 sqmm A2XWY	Ea	R.O		
	4c x 25 sqmm A2XWY	Ea	16.0		
	4c x 35 sqmm A2XWY 3.5c x 50 sqmm A2XWY	Ea Ea	R.0 R.0		+
	3.5c x 70 sqmm A2XWY	Ea	R.0		
	3.5c x 95 sqmm A2XWY	Ea	R.0		
	SUB TOTAL				
	EARTHING Supply, installation, testing & commissioning of Maintenance Free earthing as per				
1	specification, drawing and as per the instruction of Engineer-in-charge. The unit rate				
	shall include Excavation & backfilling, copper bonded rod, filled with high conductive and				
1	corrosion resistant crystalline mixture and Backfill Compound around electrode.				
	FOrm DIA v 2mts long Cl Type maintained free Forthing With Dre Cost BCC Forthing		+		
11.01	50mm DIA x 3mtr long GI Type maintance free Earthing With Pre Cast RCC Earthing Chamber	Ea	4		
	SITC of G.I./Copper earthing loop / grid conductors/Cu. Cables of following sizes along				
	the cable trenchs / cable trays / on the wall or structures / buried in ground (500mm				
	depth) including excavation and back filling. Installation shall include the welding at				
2	joints and providing anti corrosive point (black butimine) at the welded portion and				
	clamping using G.I. clamps and necessary hardware and materials as per standard				
	drawings, specifications and directions of Engineer-in-charge.				
2.03	6sqmm CU Flexible Wire with PVC Conduit	Rmt	120		
	SUB TOTAL				
	Distribution Boards		+ +		
	Supply installation testing and Commisioning of 12Way VTPN DB WITH 200A FP MCCB as		+ . +		
	INCOMMER And 12 NOS 3 PHASE outgoiing		1		
2 በበ	Supply installation testing and Commisioning of 8Way TPN DD Type DB I/C-63A FP ELCB	Ea	2		
	30ma, o/C:- 40A DP MCB-3nos, 10/16/20/25A SP MCB -18nos				
1	Supply installation testing and Commisioning of 8Way SPN DD Type DB I/C-25 DP ELCB	Ea	0		
	30ma, o/C:- 10/16/20/25A SP MCB -6nos Supply installation testing and Commisioning of 6Way SPN DD Type DB I/C-25 DP ELCB	_	+ +		1
3.00	30ma, o/C:- 10/16/20/25A SP MCB -4nos	Ea	0		
	Supply installation testing and Commissioning of 4Way SPN DD Type DB I/C-25 DP ELCB	Ea	1 ,		
	30ma, o/C:- 10/16/20/25A SP MCB -2nos	Ea	0		1
-	SITC of 63A FP MCB With Enclosure Box	Ea	3		1
	SUB TOTAL		+ +		+
D	LIGHTING		+ +		1
<u> </u>			-		-

SR. NO.	PARTICULAR	UNIT	TOTAL QTY	RATE	TOTAL AMOUNT
	Wiring of points to be done in open/concealed manner in 25 mm dia medium guage Rigid PVC FRLS pipe. Wiring shall be done with FRLS type copper flexible wire of 650V/1100V. Separate pipe should be taken for circuit mains. Nos of ciruit of the same phases may be taken in same conduit (maximum 2 ckts). The circuit shall be laid in 25/40 mm dia medium guage rigid PVC FRLS pipe. The point rate shall include all the necessary piping and wiring from DB to Switch board, switch board to Light Point / DB to MCB LP				
	The wiring shall be done as per relevant prevailing standard. The looping of the wiring should be done in the switch boxes or light and fan point outlet boxes to avoid the junction boxes. The junction boxes and switch boxes for the ceiling light point, fan point etc shall be minimum 60/75 deep. All the necessary jarry in brick plastered walls should be done with machine cutter only, also jarry should be filled with cement, sand and wire mesh as required, the material cost for rough finish shall be included in point rate. Whenever pipes are required to be laid in flooring shall be of heavy guage. Wiring should be done as per distribtion details. Each circuit should have dedicated phase, neutral & earth wire. Wire sizes to be used as under.  For Light Points /fan point/ wall fan / 6A 3 Pin Plug  DB to SB - 2.5 sqmm for Phase & Neutral & 1.5 sqmm Earth  MCB / SB to Point - 1.5 sqmm for Phase & Neutral & Earth				
	For 6A plug point				
	1.5 sqmm for Phase, Neutral & Earth  For 6/10/16A general purpose plug point 2.5 sqmm for Phase, Neutral & 1.5 sq. mm Earth  For 16A plug point for A/C and Geyser 2.5 sqmm for Phase, Neutral & 1.5 sq. mm Earth  For 20/32A plug point  A sqmm for Phases, Neutral & 2.5 sq. mm Earth				
	- 4 sqmm for Phases, Neutral & 2.5 sq. mm Earth For VRV AC				
	FROM DB TO VRV AC INDOOR UNIT- 1.5 sqmm for Phases, Neutral & 1.5 sq. mm Earth  For INDUVIDUAL AC				
	FROM DB TO AC Switch To INDOOR UNIT- 4.0 sqmm for Phases, Neutral & 2.5 sq. mm Earth				
1.01	Supply installation testing and Commisioning of Primary Light point controll with 1.5sqmm of (P+N+E) wire in PVC conduit controll by 1nos of 5A switch. (Length SB to Point-10mtr)	Ea	65		
	Supply installation testing and Commisioning of Secondary Light point controll with 1.5sqmm of (P+N+E) wire in PVC conduit controll by from above point. (Length Primary Point to Sec.Point-10mtr)	Ea	25		
1.05	Supply installation testing and Commisioning of Fan point with 1.5sqmm of (P+N+E) wire in PVC conduit controll by 1nos of 5A switch and Step Type Hune Free Fan Regulator. (Length SB to Point-10mtr)	Ea	15		
	Supply installation testing and Commisioning of Exhust Fan point controll with 1.5sqmm of (P+N+E) wire in PVC conduit controll by from above point.(Length SB to Point-10mtr)	Ea	4		
	Supply installation testing and Commisioning of 15A Plug Point Controll by 15A Switch	Ea	20		
1.08	Supply installation testing and Commisioning of Ac point controll by 15A Switch Supply installation testing and Commisioning of 5A Plug Point Controll by 5A Switch ON	Ea Ea	5 18		
1.10	Board / Seprate / UPS Supply and Labour charges for laying of 1.5sqmm (p+N), 1.0sqmm ( E) wire in PVC conduit	MTR	250		
1.11	Supply and Labour charges for laying of 2.5sqmm (p+N), 1.0sqmm (E) wire in PVC conduit	MTR	250		
1.12	Supply and Labour charges for laying of 4.0sqmm (p+N), 1.0sqmm (E) wire in PVC conduit	MTR	160		
	SUB TOTAL				
F	Light Fivutes				
	Light Fixutes Supply installation testing and Commisioning of 20W LED TUBELIGHT	Ea	5		
	Supply installation testing and Commisioning of 18WT LED Surface Light Fixture	Ea	75		
	Supply installation testing and Commisioning of Fixing of 1200 Ceiling Fan Supply installation testing and Commisioning of Exhuest Fan	Ea Ea	12 2		
	SUB TOTAL CCTV WORK				
	Supply & laying of cat 6 wire in pvc conduit	MTR	350		
	SITC of 2 mg pixel SITC of 6 channel NVR with 1 TB harddrive	Ea Ea	6 1		
	SITC of 8 port POE Switch	Ea	2		
	SUB TOTAL Installation,testing and commissioning of Following type of PANELS made from CPRI and				
	ISO Approved panel Builder scope include unloading panel, shifting at required loaction checnking and fixing of lose parts wires etc Panel Made Given Approved Make list and Detail provided by Consultant or EPC contractor	Fa	1		
Н	SITC of Panel For VRF System for 48 hp. Detail as per final Equipment Selection and GA rpovided by AC vendor.  Grand Total	Ea	1		

	PLUMBING WORKS				
SR.NO	ITEM DESCRIPTION	UNIT	TOTAL QTY	RATE ₹	TOTAL AMOUNT
1.0	SUB-HEAD: I :SANITARY :- Supply, checking, storing and fixing S. S. sink, single bowl with tap point on wall / counter comprising of Concealed type brackets fixed to wall with adjustable clamp to push against counter rim, 40 mm heavy plated C.P. waste coupling JAQUAR-ALD-729 fitting without pop-up, with flexible PVC pipe with connector, CP swan neck sink faucet model JAQUAR-LYR-38347S Painting brackets with two coats of white enamel paint over one coat of primer, table mounted / wall mounted.  Kitchen sink with drain board) (model: Nirali-olympia or equivalent) (Final Model of fixture to be selected by architect)		1		
2.0	Supply, checking, storing and fixing in position <b>European water closet</b> comprising of Wall hung European W.C. Pan Model <b>ARIA-ARS-WHT-3995</b> or Equivalent in white colour, on approved type of chairs, Metropole Model No. <b>FLV-1093NSQ</b> or Equivalent as directed, <b>C.P. health faucet Model No. JAQUAR-ALD-557</b> or Equivalent with required length of flexible tube, clamp and bracket for fixing to wall, C.P. brass 2-way bib cock Model No. <b>JAQUAR-OPP-15041PM</b> or Equivalent, CP Toilet paper holder Model <b>JAQUAR-ACN-1151N</b> or Equivalent, Solid bakelite water closet cover and seat with C.P. hinges and rubber buffers, Fixing W.C. unit with brackets and accessories in position, Necessary pipe connection to PVC / PP / CI soil pipe, Painting bracket with two coats of white enamel paint over a coat of primer. (Final Model of fixture to be selected by architect)	Each	5		
3.0	Supply, checking, storing and fixing Under Counter wash hand basin MODEL:JAQUAR-JDS-WHT-25907N ith ,32 mm heavy plated C.P. waste coupling JAQUAR-ALD-729 fitting with pop-up,32 mm heavy plated C.P. bottle trap JAQUAR-ALD-769L250x190 with cleaning eye with extension piece and wall flange,Painting brackets with two coats of white enamel paint over one coat of primer,CP Basin Faucet JAQUAR-KUP-35021PM with 15 mm C.P. brass heavy grade flexible inlet connection with C.P. nut (minimum length 450 mm) made to measure. (Final Model of fixture to be selected by architect)	Each	5		
4.0	Supply, checking, storing & fixing C.P. brass <b>towel ring MODEL:JAQUAR-ACN-1121BN</b> Round to PVC cleats with C.P. brass screws including cutting and making good the walls wherever required . (Final Model of fixture to be selected by architect)	Each	5		
5.0	Supply, checking, storing & fixing C.P. brass angle valve for basin & Sink MODEL:JAQUAR-ALI-85053, of approved quality conforming to IS:8931 for a) 15mm Nominal Bore (Final Model of fixture to be selected by architect)	Each	6		
6.0	Supply, checking, storing & fixing C.P. brass bib cock <b>MODEL:JAQUAR-ALI-85037</b> of approved quality conforming to IS:8931.(Final Model of fixture to be selected by architect) a) 15mm Nominal Bore	Each	2		
7.0	Supply, checking, storing & fixing of <b>Heavy class S.S. Grating</b> Model No. <b>Chilly-CCT-SFC-127</b> or <b>Equivalent</b> with Mosquito /Cockroach proof S.S. strainer of approved design by Interiror including setting in floor with cement motor to match with floor finish as per architect requirement suitable for FD (Floor drain) and FT (Floor trap). Note: Size of trap is vary as per final Product Selection.		14		
8.0	Installation testing and commissioning self contained pressure type <b>water coolers</b> suitable for operation on 230 voltage - 10% single phase AC supply and generally confirming to the requirements of IS :1476/78 having following nominal cooling capacity at an ambient temperature of 30 deg.c and drinking water inlet temperature of 35 deg.c and drinking water outlet temperature of 13.5 deg. complete with compressor over head protector, thermostat and steel tank. 40 Ltr. Cooling and 40 Ltr Storage.Cap.(Make:Voltas.Blue Star.Usha)	Each	1		
9.0	Supply, Checking, Storing and fixing vitreous Large flat back urinals Model No. JAQUAR-URS-WHT-13255 or Equivalent with Conceal automatic fushing system Model No. JAQUAR-SNR-CHR-51097 or Equivalent in white colour with concealed type wall hanger or special bracket in wall and hinged type C.P. dome gratings.C.P. flush pipes from auto flush, spreaders, full bore inlet caps as necessary made to measure.C.P. waste pipe, 32 mm heavy plated C.P. waste coupling JAQUAR-ALD-729 fitting with pop-upand Speader under each urinal pan, leading to the CP bottle trap Model No.JAQUAR-ALD-769L250x190 or Equivalent below and painting with two coats of white enamel paints and cutting and making good the walls wherever require. (Final Model of fixture to be selected by architect)	Each	8		
	TOTAL SUB-HEAD: I :SANITARY :-				
9.0	Supply,Installation,testing and commissioning of Silent soil & waste pipes of PP(Polypropylene) material As per EN 12056 with Min. density 1.2 g/cm3 with mineral wool (for noise reduction) with push fit lock seal joints, with necessary fittings such as making proper connections to equipments including all necessary fittings and specials such as bends, tees, reducers,,Wye, Door tee, Vent cowl,Access pipe for claening in required interval(on service floor & basement), nuts,bolts,gaskets,supports and plugs etc. Fixing at wall/ ceiling level supported by clamps, fire collars,expansion joints,Y branches, hangers etc. as per the specification,drawings and schematics. All hangers, clamps, brackets,anchor/fixed support,guides,rollers etc. shall be of galvanized iron unless specified otherwise and then supply and installation of the same shall also be excluded for rates under this head. Welding of any kind on the galvanized support / hanger shall not be permitted.(The pipe length inserted in the fitting shall not be measured for payment) (Pipes for soil, waste for internal toilet & Shaft).		24		
9.1	75 mm	metre	12		
10.0	Providing, laying and jointing in true line and level 160 diametre U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 160 mm diametre x 210 mm length x 196 mm heigh at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	metre metre	36		
11.0	Supply , installation , testing and commissioning <b>Polyproplene (PP) 110mm x 110mm size P trap (Floor trap)</b> of self cleaning design with Min. 50mm water seal with and without vent arm jointing with push fit rubber ring socket fittings complete, cutting chases / hole in floors / slabs and bringing the same in proper condition and shape after placing the trap in right position in case of suspended / open plumbing or setting the trap in 1:2:4 CC in case of concealed plumbing , etc. complete, as required. The trap shall be of following sizes: Temporary airtight PVC cover to be provided to prevent dirt entry.	Each	7		
12.0	Supply, installation, testing and commissioning <b>Polyproplene</b> ( <b>PP</b> ) <b>110mm</b> x <b>75mm</b> size <b>Multi floor trap/Height riser</b> of self cleaning design with Min. 50mm water seal with and without vent arm jointing with push fit rubber ring socket fittings complete, cutting chases / hole in floors / slabs and bringing the same in proper condition and shape after placing the trap in right position in case of suspended / open plumbing or setting the trap in 1:2:4 CC in case of concealed plumbing, etc. complete, as required. The trap shall be of following sizes: Temporary airtight PVC cover to be provided to prevent dirt entry. (In sahft)		7		

	PLUMBING WORKS				
				DATE	
SR.NO	ITEM DESCRIPTION	UNIT	TOTAL QTY	RATE ₹	TOTAL AMOUNT
<u> </u>	TOTAL SUB-HEAD: II: SOIL WASTE AND VENT PIPE				
С	SUB-HEAD: III: INTERNAL WATER SUPPLY:  Providing, fixing, jointing and testing in position the following U-PVC pressure threaded Pipes as per ASTM D 1785 Schedule				
	40 and threaded conforming to IS:554. Cut to required lengths including all necessary fittings and specials such as bends,				
	tees, unions, reducers, flanges and plugs etc. The pipes & fittings shall be tested to a pressure of 15 Kg/Sq.cm. Fixing at wall/				
	ceiling level supported by clamps, fastener, hangers etc. as per specification. Cutting hole in wall / floor slab and making good				
13.0	the same with cement concrete 1:2:4 complete as required. GI heavy class pipe sleeve of larger diameter shall be provided	metre	67		
	wherever the pipes crossing the walls/floor slab and sealing the sleeves as per consultants requirement. Threading, jointing & making proper connections & as per provided drawings by architect,techincal specification and as directed by the				
	authority EIC. (make:Astral,Ashirvad & supreme)				
	20 mm dia				
13.1	25mm dia	metre	38		
	32mm dia	metre	25		
	40mm dia	metre	12		
	Providing and fixing forged brass lever operated ball valve of full flow with forged brass ball (Machined to mirror smooth finsh	1			
14.0	with hard chrome plated) and spindle with setting and gland of superior quality having minimum working pressure of 16				
14.1	kg/cm2 etc. complete in all respect.(Make:Sant,Zoloto,leader) 32mm dia	Each	2		
	40mm dia	Each	1		
	TOTAL SUB-HEAD: III: INTERNAL WATER SUPPLY :-				
	SUB-HEAD: IV: EXTERNAL WATER SUPPLY,DRAINAGE,STORM WATER:-				
	Providing and Laying Underground drainage System Foam Core SN8 pipe complete with all fittings excavation of trench 0.7m				
	wide and depth varying from 0.75m to 2.4m , and refilling the same after laying of drain and concrete encasement in M10	1			
15.0	grade concrete with minimum thickness of encasement 100m thk & as per provided drawings by architect,techincal				
	specification and as directed by the authority EIC.(Make:Supreme,Astral or equivalent )				
	150 mm dia	metre	24		
	Providing and fixing S.W. gully trap with C.I. grating brick masonry chamber and water tight C.I. cover with frame of		_		
16.0	300mmx300mm size (inside) with standard weight.(i)Square mouth traps.(B)150mm x 100mm size P or R type	Each	4		
	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with briocks having croshing				
	strength not less than 35Kg. Cm2 in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm intenal dimensions total weight				
17.0	of cover with frame to be not less than 38Kg. (Wt. of cover 23 Kg.) and Wt. of frame 15Kg.) (R.C.C. top slabe with 1:2:4 mix (1-	Each	4		
17.0	cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete.(i) Inside	Each	4		
	dimensions 455mmx 610mm and 450mm deep for single pipe line. (more than 10 ton)				
	TOTAL CUD HEAD, IV. EVTEDNAL WATER CURRLY REALING CE AND CTORM WATER				
	TOTAL SUB-HEAD: IV: EXTERNAL WATER SUPPLY, DRAINAGE AND STORM WATER				
	SUB-HEAD: V: HIGH SIDE EQUIPMENTS:				
	Ourants installation testing 0 commissions of 0 broad library				
	Supply, installation, testing & commissioning of Submersible single stage single entry pumps connected to submersible motor (The motor shall be IE3 watertight according to IEC class IP 68, and incorporate class F, insulation materials to withstand a				
	continuous operating temperature of 155 deg C) for 415 + 10% volts, 3 phase, 50 cycles A.C. power supply with mechanical				
	seal, pump connector unit Or Auto Coupling with rubber diaphragm and bend, vertical discharge pipe,Outdoor type Control				
	panel, pumps at high level with cut off at dry level as determined. The pump shall be provided with a lifting devise of pull				
	chain/guide rail & G.I. heavy class rising main of 5m length including interconnecting piping, valves (Ball Valve / Butterfly),				
	Non return valves (GM/CI) 15 m cable etc.High level and low level sensor with motorized butterfly valve as per requirement complete in all respects. (Pumps shall be installed in a set of two pumps One working and One standby, with cascade				
18.0	operation).	Set	1		
	For supplying Domestic Water up to terrace				
	Capacity per pump - 120 LPM				
	Head - 15 mtr 1 Set = 2 Nos. Pump (1 Working + 1 Standby - cascade operation)				
	Suction head - flooded positive suction				
	Supply, Installation, testing & commissioning (Make:Kriloskar,Lubi)				
	TOTAL SUB-HEAD: V: HIGH SIDE EQUIPMENTS				
	TOTAL				

	FIRE WORKS					
Sr. No.		Qt	y.	Rate	Unit	Amount
	Providing Wet Riser & Sprinkler system.					
	SECTION-I (EQUIPMENT)					
1	Supply, installation, testing and commissioning of terrace fire					
	booster pump comprising of the following:					
а	Horizontal mono-block centrifugal pump, suitable for operation					
	on 415 volts ± 6%, 3 phase, 50 HZ A.C supply.					
b	The pump casing shall be CI, shaft shall be CS & impeller / shaft					
	sleeve / casing wearing ring shall be bronze and with					
	Mechanical seal. The system shall be complete with necessary					
	pressure gauge with gun metal shut off cock on delivery side. (The pump should meet the condition and shall be gotten					
	approved by the Local fire Authority).					
С	Squirrel cage induction motor TEFC type for operation on 415 V,					
	3 phase 50 HZ AC supply for the above pump with speed of 2900					
	R.P.M.					
d	Suitable cement concrete foundation with plaster, (design and					
	drawing to be provided by the Contractor while the foundation					
	will be done by others) complete with Antivibration arrangement					
	of cushy foot mounting. Control Panels, wiring and other					
	accessories shall also be included.					
	For pump defined above & of duty as follows :					
	Flow: 900 LPM					
	Head : 40 mts	0	set		Each	
		ı			1 1	
,	SECTION -II (PIPING)					
4	Providing, laying, testing & commissioning of 'C' class heavy duty					
	GI pipe conforming to IS 3589 and 1239 including fittings like					
	elbows, tees, flanges, tapers, nuts bolts, gaskets etc. fixing the					
	pipe on the wall/ceiling with suitable clamps and painting with two or more coats of synthetic paint of required shade complete					
	as required.					
A	100 mm dia	20	Meter		Meter	
В	80 mm dia	3	Meter		Meter	
	<u> </u>					
5	Supplying, fixing, testing and commissioning of butterfly valve					
	PN 16, with Bronze/Gunmetal seat duly ISI marked complete with					
	Nuts, Bolts, washers, gaskets, conforming to IS 13095, of					
	following sizes as required.					
Α	100 mm dia	4	Nos.		Each	
В	80 mm dia	2	Nos.		Each	
	<u> </u>	ı			<del>                                     </del>	
6	Providing, installation, testing and commissioning of dual plate					
	non-return valve of following sizes confirming to IS: 5312					
	complete with rubber gasket, GI bolts, nuts, washer etc. as					
	required.	1	Naa		Fach	
A	100 mm dia	1	Nos.		Each	
8	Supplying, installation, testing and commissioning of Y- strainer	I				
ľ	i/c all accessories etc. complete as per tender specifications &					
	drawings.					
A	100 mm dia	1	Nos.		Each	
					,	
9	Supplying, installation, testing and commissioning of pressure					
	gauge i/c all accessories etc. complete as per tender	2	Nos.		Each	
	specifications & drawings.(0 to 20 kg/cm2)					
11	Supply, installation, testing & commissioning of Flexible					
	connections for pumps					
a	100 mm dia	2	Nos.		Each	

Sr. No.		Q	ty.	Rate	Unit	Amount
12	SECTION- III ( ACCESSORIES )  Supplying and fixing single headed internal hydrant valve with instantaneous Gun metal couplings of 63 mm dia with cast iron wheel ISI market conforming to IS 5290 (Type-A) with blank Gunmetal cap and chain as required.		Nos.		Each	
15	Supplying and fixing 63 mm dia, 15 mtr. Long RRL hose pipe with 63 mm dia Male and Female Gun metal couplings duly binded with GI wire, rivets etc. conforming to IS 636 (type-A) as required.	4	Nos.		Each	
16	Supply and fixing of First Aid Hose Reel with MS construction spray painted in post office Red, conforming to IS 884 with upto date amendments, complete with the following as required.(a) 20/30/40 m. long 20 mm (normal internal) dia water hose Thermoplastic (Textile rainforced) Type-2 as per IS:12585. (b) 20 mm (normal internal) dia gun metal globe valve & nozzle. (c) Drum and brackets for fixing the equipments on wall. (d) COnnections from riser with 400 mm dia stop valve (gun metal) & MS nine.	2	Nos.		Each	
17	Supplying and fixing 63 mm dia Gun metal branch pipe with 20 mm (nominal internal diameter) size Gun metal nozzle conforming to IS 903, suitable for instantaneous connection to inter-connect hose pipe coupling as required	2	Nos.		Each	
18	Supplying and fixing <b>fire brigade connection</b> of CI body with gun metal male instantaneous inlet couplings complete with cap and chain as required for 150mm dia MS pipe connection, confirming to IS 904 as required of following way:					
Α	4 way	0	No.		Each	
19	Providing, fixing and testing forged brass 25 mm dia screwed inlet single acting air release valve with 25 mm dia ball valve on inlet side and pressure gauge with isolating cock. (A) 25 mm Air Valve	1	No.		Each	
				T		
23	Dry Powder (Stored Pressure)					
а	4.5 kg Fire Extinguisher Mono Ammonium Phosphate Powder 90%, Applicable Fire classes A,B & C, Controllable discharge mechanism with EPDM Hose & Nozzle, UGTS Pressure Gauge, Deep Drawn with MIG Welding technology, External Pure polyester and Internal Epoxy polyester powder coated, Brass forged valves with safety Pin of SS material and Welding Procedure approved by TPI with 6G certification. Fire Class 3A & 21B (Tested upto 55B) rating as per IS 15683 and ISI MARK.	4	No.			
24	CO2 (High Pressure)					
a	4.5 kg High Pressure Portable Fire Extinguisher, CO2 Gas as per IS 15222 for Fire Classes BC & Electrical 4.5 kg High Pressure Portable Fire Extinguisher, CO2 Gas as per IS 15222 for Fire Classes BC & Electrical Fire, Discharge Control mechanism fitted with high pressure steel braided Discharge Hose and Flat Horn with diffuser Nozzles for dispersed discharge of CO2, Internal coating not applicable & External coating of enamel spray painting,  Cylinders construction: hot spinning seamless & bearing ISI mark, confirms to IS 7285 and PESO/CCOE Nagpur Approved.  Fire Class 21B rating as per IS 15683 and ISI MARK.		Nos			
	SUB HEAD	TOTAL				

HVAC WORKS						
ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QTY	RATE	TOTAL AMOUNT	
1.0	2.0 TR Hi-wall VRV Unit with all necessary fittings .	Nos	4			
2.0	8 ton Ductable Unit VRV Unit with all necessary fittings .	Ton	4			
3.0	Outdoor Units Of VRF System Engineering, Design and SITC of Compact Air Cooled type outdoor units of VRF system having hermetically sealed scroll type compressors & having all inverter compressor of out door unit, condenser coil fabricated from Seamless.  Copper tube & Plate type Al. Fins of Multi Row, Axial Flow, upward throw condenser fan, Condenser fan-motor unit, insulated refrigeration piping, power / control wiring, and earthing, external wiring between Indoor & Outdoor units, all system controls-safety. Each Outdoor units with High Pressure switch, Fan driver overload protector, Over current relay, Inverter Overload Protector & Fusible Plug. The unit shall be suitable for 415 ± 10 % volts, 50 Hz, 3 phase AC supply, and IP 55 protection.  Installation, Testing & Commissioning of Compact Air Cooled type outdoor units of VRF system includes connection of ref. piping connection supply/laying/dressing and termination of power / control wiring , earthing, external wiring between Indoor & Outdoor units including first gas charging in the system.  Unit shall be installed on Vibration Isolators. with control panel (The scope includes all cost related to Lifting, Shifting of Equipments to the desired location )  16+16+16 HP Capacity System	Nos	1			
4.0	Remote Controller SITC of cordless remote with holder suitable for IDU's in use. Vendor to include in his scope all power & control cabling, accessories, fittings, hangars, supports, consumables, joining & rigging accessories necessary for satisfactory installation & operation of the system.	Nos	8			
5.0	Refrigeration SITC of Seamless heavy gauge Copper piping (complying to ASTM B 280) of following size duly insulated with 19 mm thk (Insulation thickness shall be as per ref. pipe size and company specifications requirement) Nitrile Rubber Insulation. Refrigeration piping will have to be taken in the piping rack / Support individually connecting to all indoor units for the respective floors. Even necessary supports, fittings, valves & ref. joints where ever required will be included. All external ref. pipe insulation shall be coated with star bond CR 30-36 themal insulation canvass coating including Gas charging of refrigerant pipes. Refrigerent Piping and First charge of Refrigerant R 410 for the circuits of VRF system of 16+16+16 HP Capacity System	Lot	1			
6.0	Supply, Installation, Dressing with Bends/Tees of C PVC DRAIN PIPING with proper leak proof adhesive at joints DULY INSULATED WITH 9 MM NITRILE RUBBER AND BOPP TAPE OF FOLLOWING SIZE DIA. 25 mm	Rmt	100			
7.0	Supply Installation, Testing & Commissioning of Factory fabricated GSS sheet metal ducting as per IS standards complete with TDF / TDC flanges, duct damper, vanes, splitters, neoprone or equivalent approved gasket. suspension arrangement using threaded rods, vanes, splitters, slotted angle supports, anchor fastners etc. Connection to fans shall be provided with Canvas connections. Price should also include duct pressure test which has to be carried out for 20 % of total duct qty. All ducts inlet and outlet to be cleanly covered with polythene sheet in order to prevent dust entry to inside surface of ducts.  24G, Duct Width 0 - 750 mm	Sq m	90			
7.0	Supply Installation, Testing & Commissioning of Thermal insulation of <b>Ducting</b> with <b>13 mm</b> thick class '0' rated nitrile rubber faced with Aluminum foil 80 $\mu$ thickness, stuck to the cleaned external duct surface with synthetic rubber low VOC content ahdhesive of Pidlite industries or equivalent and to be used for ducts routed in unconditioned space.	Sq m	90			

## Schindler 5500 MRL

## Planning Data

	/	/at	/	//	nos ma	*/						/		
Load	Passe	Agers mat	Travel	neight Numi	de of stops no			Doot			Shaft		Pit Depth	Headi
GQ		VKN	HQ	ZE	BK	TK	НК	Туре	ВТ	HT	BS	TS	HSG	HS
kg	10	m/s	m	45	mm	mm	mm	co.	mm	mm	mm	mm	mm	125
680	10	1.00	80 80	30	1300	1350 1350	2300 2300	C2	900	2100 2100	2000	1700 1700	1500 2150	425
-		2.50	100	30	1300	1350	2300		900	2100	2000	1700	2500	540
		3.00	150	40	1300	1350	2300		900	2100	2000	1700	2750	550
884	13	1.00	45	15	1800	1200	2300	C2	1000	2100	2400	1550	1500	425
		1.75	80	30	1800	1200	2300		1000	2100	2400	1550	2150	480
	- 1	2.50	100	30	1800	1200	2300		1000	2100	2400	1550	2500	540
		3.00	150	40	1800	1200	2300		1000	2100	2400	1550	2750	550
884	13	1.00	45	15	1100	2000	2300	T2	900	2100	1700	2375	1500	425
		1.75	100	30	1100	2000	2300		900	2100	1700	2375	2150	480
		3,00	100	30 40	1100	2000	2300 2300		900	2100 2100	1700 1700	2375 2375	2500 2750	540 550
020	15	1.00	45	15	1600	1500	2300	C2	1000	2100	2325	1850	1500	425
020	- 13	1.75	80	30	1600	1500	2300		1000	2100	2325	1850	2150	480
		2.50	100	30	1600	1500	2300		1000	2100	2325	1850	2500	540
		3.00	150	40	1600	1500	2300		1000	2100	2325	1850	2750	550
020	15	1.00	45	15	1200	2000	2300	T2	900	2100	1800	2375	1500	425
		1.75	80	30	1200	2000	2300		900	2100	1800	2375	2150	480
		2.50	100	30	1200	2000	2300		900	2100	1800	2375	2500	540
		3.00	150	40	1200	2000	2300		900	2100	1800	2375	2750	550
880	16	1.00	45	15	2000	1300	2300	C2	1000	2100	2600	1650	1500	425
-	-	1.75	80	30	2000	1300	2300		1000	2100	2600	1650	2150	480
-		3.00	100	30 40	2000	1300	2300		1000	2100	2600 2600	1650	2500	540
1088	16	1.00	45	15	1600	1600	2300	C2	1000	2100 2100	2325	1650 1950	2750 1500	550 425
000	10	1.75	80	30	1600	1600	2300	CZ	1000	2100	2325	1950	2150	480
		2.50	100	30	1600	1600	2300		1000	2100	2325	1950	2500	540
		3.00	150	40	1600	1600	2300		1000	2100	2325	1950	2750	550
088	16	1.00	45	15	1150	2200	2300	T2	1000	2100	1850	2580	1500	425
		1.75	80	30	1150	2200	2300		1000	2100	1850	2580	2150	480
		2.50	100	30	1150	2200	2300		1000	2100	1850	2580	2500	540
	-	3.00	150	40	1150	2200	2300		1000	2100	1850	2580	2750	550
360	20	1.00	45	15	2000	1550	2300	C2	1100	2100	2625	1900	1500	425
-		1.75 2.50	100	30	2000	1550	2300		1100	2100	2625	1900	2150	480
+	-	3.00	150	40	2000	1550 1550	2300		1100	2100 2100	2625 2625	1900	2500 2750	540
1360	20	1.00	45	15	1800	1700	2300	C2	1100	2100	2600	2050	1500	425
	2.0	1.75	80	30	1800	1700	2300	CZ	1100	2100	2600	2050	2150	480
		2.50	100	30	1800	1700	2300		1100	2100	2600	2050	2500	540
		3.00	150	40	1800	1700	2300		1100	2100	2600	2050	2750	550
632	24	1.00	45	15	1500	2400	2300	C2	1100	2100	2400	2750	1500	425
	1	1.75	80	30	1500	2400	2300		1100	2100	2400	2750	2150	480
		2.50	100	30	1500	2400	2300		1100	2100	2400	2750	2500	540
005	4-1	3.00	150	40	1500	2400	2300		1100	2100	2400	2750	2750	550
836	27	1.00	45	15	1650	2400	2300	C2	1200	2100	2600	2750	1500	425
+		2.50	100	30	1650	2400	2300		1200	2100	2600 2600	2750 2750	2150 2500	480
1972	29	1.00	45	15	1650 1900	2200	2300	C2	1200	2100 2100	3000	2550	1500	425
512	2.5	1.75	80	30	1900	2200	2300	CZ	1400	2100	3000	2550	2150	480
		2.50	100	30	1900	2200	2300		1400	2100	3000	2550	2500	540
500	37	1.00	45	15	1800	2700	2300	C4	1400	2100	2550	3150	1500	425
		1.75	80	30	1800	2700	2300		1400	2100	2550	3150	2150	480
-		2.50	100	30	1800	2700	2300		1400	2100	2550	3150	2500	540

Above data is on the basis of 2300 mm car height. Any additional increase in height should be added to Headroom Height







