Refurbishment, design, supply, fabrication, and erection of Conventional Roof Steel structure works for National Heavy Engineering Cooperative Ltd. Talegaon, Pune, Maharashtra

IDMC LIMITED
ANAND – 388121

SECTION – 0

INVITATION FOR BID

Plot no. 124-128, G.I.D.C. Estate, Vithal Udyognagar,
Anand – 388 121, Tel: 02692-220521
Website: http://www.idmc.com

INVITATION FOR BIDS (IFB) NATIONAL COMPETITIVE BIDDING(NCB)

Tender/Event Ref. No: IDMC/ Sourcing & VD/ 2026-27/ Enquiry/ 385 Dated 21.10.2026

The IDMC Ltd having its Head Office at Anand, Gujarat invites rate bids from eligible bidders through "online E- Tender" from reputed eligible bidders for " **Refurbishment, design, supply, fabrication, and erection of Conventional Roof Steel structure works" at** National Heavy Engineering Cooperative Ltd. Talegaon, Pune, Maharashtra as per details given below:

Estimated cost	**2,16,00,000/- (including GST) (Two crore Sixteen Lakhs only).**
Completion period	3 Months (from the date of notification of award of Contract/Purchase Order).
Earnest Money Deposit (EMD)	**Rs 2,16,000/- (Two lakhs Sixteen thousand only)**
Mode of Tender	eProcurement at NCDFI eMarket portal, considering online restricted tender of IDMC with single stage two bid envelope system (Part I- Techno-commercial Bid and Part II- Price Bid) through www.idmc.com (click procurement) OR https://www.ncdfiemarket.com/index.php/idmc/ and can be downloaded and used as tender document for uploading the offer. The potentially invited bidders are required to submit their offer electronically through NCDFI eMarket portal. No physical tender/email is acceptable.

Issued by Head (Purchase),
tender committee, IDMC LTD, Anand.

INVITATION FOR BID

Tender/Event Ref. No: IDMC/ Sourcing & VD/ 2026-27/ Enquiry/ 385 Dated 21.10.2026

1.0 DESCRIPTION OF WORKS: The IDMC Limited, having its Head Office at Anand, Gujarat invites item rate bids from eligible bidders, for the construction & completion of the following works:

Refurbishment, design, supply, fabrication, and erection of Conventional Roof Steel structure works for National Heavy Engineering Cooperative Ltd. Talegaon, Pune, Maharashtra

ADDITIONAL INFORMATION: Potential invited bidders may obtainfurther information from and download the bidding documents from NCDFI portal www.idmc.com (click procurement) OR https://www.ncdfiemarket.com/index.php/idmc/

2.0 REQUEST FOR BIDDING DOCUMENT:

(a) The bid documents will be available in the website www.idmc.com (click procurement) OR https://www.ncdfiemarket.com/index.php/idmc/ can be downloaded and used as tender documents for uploading the offer.

(b) It is hereby brought to the notice of all bidders that if any change/additions/ deletions/alterations are found to be made by them in the tender and the same is subsequently noticed at any stage, even after award of the contract, the bidders are liable for all consequences thereof and IDMC LTD shall be free to take suitable actionas deemed necessary.

~~**3.0 Minimum Eligibility Criteria: For any new bidder (who is not covered under restricted bidding process) intend to participate in tender, they must submit following documents for initial analysis of eligibility criteria offline on email id: tenders@idmc.com in ten days (10) from date of publication / issue of tender on NCDFI eMarket portal.**~~

~~For the purpose of bidding, the new bidder (who is not falling under restricted bidding process) shall meet the following minimum qualifying criteria:~~

a) ~~The Bidder, in the same name and style, should be in business at least for **five years** at the time of bid opening. In case of change of~~

~~name of bidder by merger / acquisition / change in status, the bidder may be eligible based on the documentary evidence.~~

~~b) The Bidder should have valid registration under various Acts that may be applicable for the contract proposed. This shall include but not limited to Income Tax, Companies Act, GST, the Building & other construction workers' welfare cess act, Employee State Insurance, Contract Labour, Provident fund etc.~~

~~c) The Bidder's financial turnover in the same name and style during each of the **last three financial year (22-23; 23-24; 24-25)** ending 31st March should **not be less than 80% of the estimated contract value.**~~

~~d) The bidder should have positive net worth in **last two financial years.**~~

~~e) The bidder should have **cash profit** in any two financial years out of the last five financial years.~~

~~f) The Bidder in the same name & style shall have successfully executed /completed contracts of **Similar nature of work**** during the last five years ending last day of the month previous to the month in which bid is opened, either of the following: -~~

~~**I. One contract/work of similar nature costing not less than 80% of estimated value of the contract.**~~

~~**OR**~~

~~**II. Two contracts/works of similar nature each cost not less than 60% of the estimated value of the contract.**~~

~~**Notes:**~~

~~a) **** Similar nature of work means Desing supply fabrication and erection work for PEB works industrial buildings in Dairy/ Food or Beverage/Pharma/ Chemical/ Electronics/Frozen Semen station having clean room laboratory/Bio-Containment Laboratory/Bio-Gas/ETP Plant having similar finishes, flooring, drainage, road work, storm drainage, Misc. MS fabrication work.~~

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~~b) The contract means the work done against one work order on a single location.~~

~~c) Cost of contracts/works shall be considered for evaluation as per the clause 4(f) above excluding the cost/recovery of materials supplied by the purchaser.~~

Bidder shall submit the following details to support their claim for meeting the minimum eligibility requirement -

1. Name / Names of project to be considered for meeting minimum eligibility criteria
2. Nature of each project / work completed.
3. Value of work of each project / work completed.
4. Location of execution of each project/work completed.

The copy of purchase order/work order, completion certificate and abstract sheet of final bill/invoice showing the cumulative value of work done should be submitted in order to support aforesaid details. In case, the final bill/invoice does not contain cumulative value of work done, copy of all the bills/invoices submitted prior to the final bill should be attached.

Note:
For evaluation and comparison of bids, the purchaser may, at its discretion, ask the bidder for clarification on the bid. The shortfall information / documents shall be sought only in case of historical documents which pre-exist at the time of tender opening and which have not under gone change since then.

So far as the submission of the documents is connected with regard to qualification criteria, after submission of the tender, only related shortfall documents shall be asked for the considered. For example, if the bidder has submitted a supply order without its completion / performance certificate, the certificate can be asked for and considered. However, no new supply order shall be asked for and considered so as to qualify the bidder.

1. In addition to the above, the following information/documents should also be submitted along with the bid by the bidders for evaluation/determination of their eligibility:
    a. Copy of Income Tax Returns and audited balance sheet for **three** previous years in original or certified true copies, along with Permanent Account Number (PAN) for income tax purpose.

    b. Copy of TDS certificate issued by the clients to substantiate the claim for the value of works executed in the private sector.
    c. **Copy of Form 26 AS for the last 3 financial Years**
2. Even though the bidder meets the specified criteria, it may be disqualified if it has:
    a. Made untrue or false declaration in the forms, statements and attachments submitted in proof of their qualification and / or
    b. Records of poor performance such as abandoning the work, not properly completing the contract, inordinate delays in completion or financial failure etc.

As a part of **Technical Bid** (part-I) the bidder shall also submit the following documents & credentials.

1. **The deployment of manpower and organization chart at proposed site.**

2. **Technical capability of the firm includes the equipment owned by them. They should deploy the material handling equipment required for suitable capacity for smooth execution of structures. The fitness certificate of the equipment to be furnished as and when deploy at site.**

3. **QAP plan with method statement & schedule in MS Project.**

5.0 BID DETAILS: Detailed terms and conditions as well as the technical specifications for all the items of work indicated in the invitation for bid are contained in one bidding document.

(a)	Tender/Event Ref. No.:	IDMC/ Sourcing & VD/ 2026-27/ Enquiry/ 385 Dated 21.10.2026
(b)	Transaction Fee Payment of transaction fee by NEFT/ RTGS in favour of IDMC Limited (refer clause No.-4 of Annexure-A)	: Not Applicable
(c)	Incidental charges (in land) in case documents are to be sent by courier/post	: Not Applicable
(d)	Event Start Date	:22.10.2026
(e)	Event Close Date & time	: 29.10.2026, 17.00 Hours
(f)	Last Date and time for bid submission	: 29.10.2026, 17.00 Hours

(g)	Place of opening of bids	: ONLINE on web portal
(h)	Address for communication	: Head (Purchase), IDMC Ltd, V.U Nagar, Anand 124-128 GIDC Estate Vithal Udyognagar- 388121 Dist.- Anand (Gujarat) Tel: 02692-220521 Email: tenders@idmc.com
(i)	Estimated Cost of works	Rs **2,16,00,00,000**/- (Including GST) (Two Crore Sixteen Lakhs only.)
(j)	Time of completion	: 03 (Three) Months for overall completion (from the date of notification of award of Contract/ LOI/Purchase Order)
(k)	Amount of Bid Security	: Rs 2,16,000/- (Two lakhs Sixteen Thousand only.)
(l)	Date and time for receipt of EMD. The EMD in original to be submitted to communication address as stated above inclause (i)	: On or before 28.10.2026, 17.00 Hours

6.0 PURCHASE OF BIDDING DOCUMENT IN PERSON: Not Applicable. Only Downloading.

7.0 PURCHASE OF BIDDING DOCUMENT BY COURIER/POST: Not Applicable. Only Downloading.

8.0 EARNEST MONEY DEPOSIT (EMD): All bids must be accompanied by a Earnest Money Deposit (EMD) in the acceptable form as specified in the bidding document and must be delivered to the address of communication as stated above in **clause 5.0 (i)** on or before the last date and time of receipt of bids as given in **clause 5.0 (l)** above.

9.0 PRE-BID MEETING: (Not applicable for this work)

10.0 OPENING OF BIDS: All the bidders should submit their online bids in Part I – Technical Bid and Part II – Price Bid. The technical bid (Part I) shall contain all the details EXCEPT FOR THE PRICE. Only technical bids (of those bidders who's Original EMD, in acceptableform, have reached the office of IDMC LTD as mentioned above in clause no. 5-Bid Details (m) of this Section) shall be opened online on the date and time specified above. The date and time of opening of Price Bid (Part II) shall be communicated later to responsive /technically qualified bidders.

11.0 BID VALIDITY: The Bid shall remain valid for a period **of minimum 120 (One Hundred and twenty) days** from the date of bid opening.

12.0 BID SECURITY VALIDITY: The bid security accompanying the bid shall be valid till **31.01.2027**

13.0 TENDER DRAWINGS: Drawing(s) are attached with this bidding document and the same shall be available for reference at the office of The IDMC Ltd, at the address of communication on all working days.

14.0 RIGHTS RESERVED BY IDMC LTD: The IDMC Ltd, at its sole discretion & without assigning any reason, thereof reserves the right to accept and / or reject any or all the bids.

Issued by Head (Purchase),
tender committee, IDMC LTD, Anand.

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SECTION - I , INSTRUCTIONS TO BIDDERS / VENDORS

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SECTION - I - INSTRUCTIONS TO BIDDERS

A. GENERAL

1.0 General Information:

1.1 (a) Description : Refurbishment, design, supply, fabrication, and erection of conventional roof steel structure works for National Heavy Engineering Cooperative Ltd. Talegaon, Pune, Maharashtra.

(b) Owner : IDMC Limited

1.2 Location and Area:

(a) **Project site** : National Heavy Engineering Cooperative Limited, Talegaon, Pune Maharashtra.

(b) **Nearest Railway Station** : Pune Railway Station.

(c) **Nearest Airport** : Pune International Airport.

(d) **Nearest Major Town** : Pune Junction.

(e) Nearest Road : NH 48 (Pune-Bengaluru Highway)

1.3 Period of Completion:

The Period of completion shall be **03 Months for overall completion** from the date of issuance of work order (WO / LOI), **which shall include the non-working periods during monsoon and festivals.**

2.0 Source of Funds:

The Service Recipient has arranged the funds and provided to the purchaser.

3.0 Eligibility and Qualification Requirements:

3.1 This invitation for bid is restricted to potential identified bidders from all eligible sources.

3.2 All goods and services to be supplied under this Contract shall have their origin in eligible source and all expenditures made under the Contract will be limited to such goods and services.

3.3 For the purpose of this clause, "Origin" means the place where the goods are mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing or processing or substantial and major assembling of components, a commercially recognized product results that is substantially different in basic characteristics orin purpose of utility from its components.

3.4 The origin of goods and services is distinct from the nationality of the bidder.

3.5 To be eligible for the award of Contract, bidders shall provide evidence satisfactory to the IDMC Ltd, of their eligibility under **sub-clause 3.1** above, and adequacy of resources to carry out the Contract effectively. To this end, allbids submitted shall include the following information:

(A) Copies of original documents or certified true copies, defining the constitution or legal status, place of registration and principal place of business of the company or firm orpartnership.

(B) Power of Attorney or a true copy there of duly attested in case an authorized representative has signed the bid.

(C) Details of the experience and past performance of the bidder on works of similar nature **within the past five years,** and details of current work in hand and other Contractual commitments shall be submitted as per formats given in **Schedule IV and Schedule VIII of Section VII respectively of this bidding document.**

(D) Major items of constructional plant proposed for use in carrying out the Contract in the format prescribed in **Schedule I** and the qualifications and experience of key personnel proposed for the administration and the execution of the Contract, both on and off site, in the format prescribed in **Schedule II of Section VII of this bidding document.**

(F) Proposals for sub-contracting elements of the works amounting to more

than **10%** of the bid price for each element and shall be as listed in **Schedule III of Section VII of this bidding document.**

(G) Reports on the financial standing of the bidder such as profit and loss statements, balance sheets and auditor's reports for **the past three years,** an estimate of the financial projection for the **next two years** as prescribed in the **Schedule VII of Section VII of this bidding documents**, and an authority from the bidder to seek reference from the bidder's bankers; and

(H) Statement of arbitration/disputes in which the bidder is involved as prescribed in the **Schedule VI of Section VII of this bidding document.**

Note: As a part of **Technical Bid** (part-1) the bidder shall also submit the following documents & credentials.

1. **The deployment of manpower and organization chart at proposed site.**

2. **Technical capability of the firm includes the equipment owned by them. They should deploy Crane ranging from 30 Mt to 100Mt, Faran of cap 10 to 15 MT as per project requirements and fully furnished QC laboratory for regular testing of materials at project site/factory as per QAP.**

3. ~~**fully furnished QC laboratory for regular testing of materials at projectsite as per QAP**~~**.**

4. **QAP plan with method statement & schedule in MS Project.**

~~**3.6 For any new bidder (who is not covered under restricted bidding process) intend to participate in tender shall meet the following qualifying criteria as minimum**:~~

~~a) The Bidder, in the same name and style, should be in business at least for **five years** at time of bid opening. Incase of change of name of bidder by merger / acquisition / change in status, the bidder may be eligible based on the documentary evidence.~~

~~**b)** The Bidder should have valid registration under various Acts that may be applicable for the contract proposed. This shall include but not limited to Income Tax, Companies Act, GST, the building & other construction workers' welfare cess act , Employee State Insurance, Contract Labour, Provident fund etc.~~

~~c) The Bidder's financial turnover in the same name and style during each of the **last three financial year (22-23; 23-24; 24-25)** ending 31st March should **not be less than 80% of the estimated contract value.**~~

~~d) The bidder should have positive net worth in last two financial years.~~

~~e) The bidder should have cash profit in any two financial years out of the last five financial years~~

~~f) The Bidder in the same name & style shall have successfully executed /completed contracts of similar nature**. Similar nature of work means Design supply fabrication and erection works of industrial buildings in Dairy/ Food or Beverage/Pharma/ Chemical/ Electronics/Frozen Semen station having clean room laboratory/Bio- Containment Laboratory/Bio-Gas/ETP plant having similar finishes, flooring, drainage including or excluding internal electrification works etc. during thelast five years** ending last day of the month previous to the month in which bid is opened, either of the following: -~~

~~**I.** One contract/work of similar nature costing not lessthan 80% of the estimated value of the contract.~~

~~OR~~

~~**II.** Two contracts/works of similar nature each costing not less than 60% of estimated value of the contract.~~

~~Notes:~~

~~**** Similar nature of work means Design supply fabrication and erection works for industrial buildings in Dairy/ Food or Beverage/Pharma/ Chemical/ Electronics/Frozen Semen station having clean room laboratory/Bio-Containment Laboratory/Bio-Gas/ETP Plant having similar finishes, flooring, drainage, road work, storm drainage, Misc. MS fabrication work.** The contract means the work done against one workorder on a single location.~~

~~a) Cost of contracts/works shall be considered for evaluation as per the clause 3.6 (f) above excluding the cost/recovery of materials supplied by the purchaser.~~

Bidder shall submit the following details to support their claim for meeting the minimum eligibility requirement -

1. Name / Names of project to be considered for meeting minimum eligibility criteria
2. Nature of each project / work completed.
3. Value of work of each project / work completed.
4. Location of execution of each project/work completed. The copy of purchase order/work order, completion certificate and abstract sheet of final bill/invoice showing the cumulative value of work done should be submitted in order to support aforesaid details. In case, the final bill/invoice, does not contain cumulative value of work done, copy of all the bills/invoices submitted prior to the final bill should be attached.

g) In addition to the above, the following information/documents should also be submitted along with the bid by the bidders for evaluation/determinationof their eligibility:

I. Copy of Income Tax Returns and audited balance sheet for **three** previous years in original or certified true copies,along with Permanent Account Number (PAN) for income tax purpose.

II. Copy of TDS certificate issued by the clients to substantiate the claim for the value of works executed inthe private sector.

III. Copy of Form 26 AS for the last 3 financial Years

h) Even though the bidder meets the specified criteria, it may be disqualified if it has:

I. Made untrue or false declaration in the forms, statements and attachments submitted in proof of their qualification and / or

II. Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion or financial failure etc.

4.0 Cost of Bidding:

The bidder shall bear all costs associated with the preparation and submission of his bid and IDMC Ltd, hereinafter referred to as IDMC LTD will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

5.0 Project Site Visit:

5.1 The bidder is advised to visit and examine the site of works and its surroundings and obtain for himself on his own responsibility all information that may be necessary for preparing the bid and entering into a Contract. The costs of visiting the site shall be at bidder's own expenses.

5.2 The bidder and any of his personnel or agent(s) will be granted permission by

the IDMC LTD to enter upon the premises and lands for the purpose of such inspection but only upon the express condition that the bidder, his personnel and agent(s) from and against all liabilities in respect thereof and will be responsible for personal injury (whether fatal or otherwise), loss of or damage to property and any other loss or damage, costs and expenses however caused, which but for the exercise of such permission would not have arisen.

5.3 Each of the civil contracts, if executed at site under the circumstances of an operating plant which cannot be closed down for any reason, the site works of every nature has to be planned and executed with the knowledge of operational and processing routines at existing plant, as the plant will continue uninterrupted throughout the year. The execution of contract will be done with clear under-standing that their all staff and workers will have to strictly abide by the security rules and procedures that is followed by plant authorities during the concurrency of the contract.

B. BIDDING DOCUMENTS

6.0 Contents of Bidding Documents:

6.1 The set of Bidding documents issued for the purpose of bidding includes the number of copies as stated below, together with any addenda there to issued in accordance with **clause-8** & any minutes of the pre-bid meeting issued in accordance with **clause-16.**

Number copies	Volume	Section	Descriptionof
1	I	0	Invitation for Bid
1	I	I	Instructions to bidders
1	I	II	General Conditions of Contract
1	I	III	Special Conditions of Contract
1	I	IV	Technical Specifications
1	I	V	Form of Bid
1	I	VI	Schedule of Materials to be issued by owner/IDMC LTD
1	I	VII	Schedule of Supplementary Information
1	I	VIII	Form of Agreement
1	I	IX	Acceptable Forms of Bank

			Guarantees
1	II	X	Schedule of Quantities
1	II	XI	Sketches – General Site Layout

6.2 The Bidder is expected to examine carefully all instructions, conditions, forms, terms, specifications and drawings in the bidding documents. Failure to comply with the requirements of bid submission will be at the bidder's own risk. Pursuant to **clause-25**, bids which are not substantially responsive to the requirements of the bidding documents will be rejected.

7.0 Clarification of Bidding Documents:

A prospective bidder requiring any clarification of the bidding documents may notify the IDMC LTD in writing at the address of communication indicated in the Invitation for bid. The IDMC LTD will respond in writing to any request for the clarification which is required earlier than **10 days** prior to the dead line for the submission of the bids.

8.0 Amendment of Bidding Documents:

8.1 At any time prior to the deadline for the submission of bids, the IDMC LTD may for any reason whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding document by the issuance of amendment.

8.2 The amendment will be notified separately as Corrigendum for the respective bidding document on the IDMC LTD's website/NCDFI eMarket Portal.

8.3 In order to afford prospective bidders reasonable time in which to take an amendment into account in preparing their bids, the IDMC LTD may, at its discretion, extend the deadline for the submission of bids in accordance with **clause-19.**

C. PREPARATION OF BIDS

9.0 Language of Bid:

The bid prepared by the bidder and all correspondence & documents relating to the bid exchanged by the bidder and the IDMC LTD shall be written in the **English language**. Supporting documents and the printed literature furnished by the bidder with the bid may be in another language provided if required an English translation of the same is provided. For the purpose of the interpretation of the bid, the **English language** shall prevail.

10.0 Documents Comprising the Bid:

The bid to be prepared by the bidder shall comprise thefollowing:

(a) The form of bid along with Appendixes (**Refer Section V**)thereto duly filled;

(b) The bid Security;

(c) The Schedule of Quantities duly filled (**Refer Section X**);

(d) The Schedule of supplementary information (**Refer SectionVII**), the information on eligibility and qualifications;

(e) The complete bidding document duly signed has to be uploaded alongwith bid as stated above.

(e) Alternative offers where invited, and any other materials required to be completed and submitted in accordance with the Instruction to Bidders (**Section I**) embodied in these bidding documents.

The forms, Schedule of quantities and Schedule provided in this bidding document shall be used without exception (subject to the extension of the Schedules in the same format and to theprovisions of **sub-clause 14.2** regarding the alternative form of Bid Security)

Additional special instructions:

Before uploading, of their bid, the bidder should check the IDMC LTD's website or NCDFI eMarket portal for any Corrigendum/additional information on the bidding document, if any. However, non- information in changes/amendments put on website as Corrigendum to the prospective bidders shall not bind the IDMC LTD to extend the deadline for the submission of the bids and non-compliance to such Corrigendum by the bidder shall result to non-responsiveness of the bid leading to rejection.

11.0 Bid Prices:

11.1 Unless stated otherwise in the bidding documents, the Contract shall be for the whole works as described in the Invitation for bid based on the schedule of unit rates and prices submitted by the bidder.

11.2 The bidder shall fill in rates and prices for all items of workdescribed in the schedule of quantities. **Items against which no rate is entered by the bidder shall not be paid for by the IDMC LTD when executed and shall be deemed to have coveredby the other rates in the schedule of quantities**.

11.3 All applicable Taxes (GST), levies, cess (including labour cess, seigniorage, royalty etc., as applicable to this contract) and duties shall be payable by the

bidder under the Contract or forany other cause, and shall be included in the rates and the prices and total bid price submitted by the bidder and the evaluation and the comparisons of bids by the IDMC LTD shall bemade accordingly.

11.4 Fixed Prices:

The rates and prices quoted by the bidder shall be fixed for the entire duration of the Contract and shall not be subjected to adjustment on any account except as defined in clause no. 11.5 below. A bid submitted with any price adjustment condition except as defined in clause no. 11.5 below shall be treated as non-responsive & rejected, pursuant to **clause 25 of this section.** Any variation in the taxation shall be subjected to the adjustment as per the detailed specified under clause 72 of section II of the bidding document.

11.5 Price escalation – Not Applicable for this contract

12.0 Currency of Bid & Payment:

The unit rates and prices shall be quoted by the bidder entirely in Indian currency and all payment shall be made in Indian currency only.

13.0 Bid Validity:

13.1 Bids submitted shall remain valid for acceptance for a period of **120 days** from the date of bid opening.

13.2 In exceptional circumstances, prior to expiry of the original bid validity period, the IDMC LTD may request the bidder for a specified extension in the period of validity. The request and the response thereto shall be made in writing. A bidder may refuse the request without forfeiting his bid security. A bidder agreeing to the request shall not be permitted to modify his bid, but shall be required to extend the validity of his bid security correspondingly. The provisions of **clause 14** shall continue to apply during the extended period of bid validity.

14.0 Bid Security:

14.1 The bidder shall furnish, as part of the bid, a bid security for each package separately of the amount as specified in **clause 5(l)** in the **Invitation for bid, Section 0).**

14.2 The Earnest Money Deposit (EMD) shall be denominated in Indian Rupees only, and shall be in one of the following forms.

a) **A Bank Guarantee issued by a scheduled commercial bank in India, in the form Provided in Bidding Document and valid till 30.04.2026**

Or

b) **A Demand Draft/ Bankers Cheque issued by a Nationalized Bank/Schedule Bank / Foreign Bank having branches inIndia, drawn in favour of IDMC Limited, payable at Anand.**

Or

c) **Through Online Banking Transaction i.e. NEFT/RTGS**

Bidders can pay/remit the EMD through NEFT/RTGS to IDMC LTD Account (details mentioned below) and upload the transaction details of NCDFI eMarket Portal along with technical bid. Bidder must inform the transaction details through email (tenders@idmc.com) as per enclosed format **on or before 24:00 hrs. on the last date of receipt of bid.**

Details of IDMC LTD's Bank Account for online banking transaction i.e. NEFT/RTGS is as under:

1. Beneficiary Name		**IDMC Limited**
2. Beneficiary Bank & Branch		INDIAN BANK ANAND BRANCH
3. Account Number to be credited		**CA - 494481837**
4. RTGS/IFSC Code		**IDIB000A021 (PLEASE READ 'ZERO' AFTER B)**

Format for e-mail confirmation about the transaction made thruNEFT/RTGS for EMD:

Name of the Bidder	IFB Reference	EMD Amount	Bank Details UTR No. & date

Bidders shall be required to submit/upload the successfultransaction details along with technical bid.

The bid shall not be considered if the valid EMD is notavailable at the time of opening of Technical Bid.

14.3 Any bid not accompanied by an acceptable Earnest Money Deposit (EMD) pursuant to **clause 14.1 and 14.2** hereof shallbe rejected by IDMC LTD as

non-responsive.

14.4 The Earnest Money Deposit (EMD) of the unsuccessful bidders shall be refunded as promptly as possible, but not later than **30 days** after the expiry of the period of bid validity as prescribedin these documents.

14.5 Earnest Money Deposit (EMD) of the successful bidder(s) shall be refunded when the bidder has signed the Agreement and furnished the required performance security.

14.6 No interest shall be paid by the IDMC LTD on the Earnest MoneyDeposit (EMD) furnished by the bidder.

14.7 The Earnest Money Deposit (EMD) may be forfeited
(a) If a bidder withdraws his bid during the period of bidvalidity; or
(b) In the case of a successful bidder, if he fails within the timelimit to:
(i) Sign the agreement, or
(ii) Furnish the required performance security

15.0 Variation in Bidding Conditions:

15.1 The bidder shall submit offer which comply fully with the requirements of the bidding documents, including the basic technical design as indicated in the drawings and specifications. Conditional bids are liable to be considered as non-responsivein accordance with **clause-25.**

16.0 Pre-Bid Meeting: Not Applicable

17.0 Format and Signing of Bids:

17.1 The bidder shall prepare and upload the original copy of the documents comprising the bidding documents downloaded by him.

17.2 All pages of the bidding documents including corrigendum (if any) shall be digitally signed by person(s) duly authorized, to bind the bidder to the Contract. Proof of authorization shall be in the form of a written power of attorney which shall accompany the bid. All pages of the bid documents, where entries and amendments had been made, shall additionally be initialled by the person(s) signing the bids.

17.3 The complete bid shall be without alterations, interlineations or measures except those in accordance with instructions issued by the IDMC LTD, or as necessary to correct errors made by the bidderin which case such corrections shall be initialled by the person(s) signing the bid. No overwriting shall be

permitted.

17.4 Only one bid may be uploaded by each bidder. No bidder shallbe allowed to participate in the bid in the name of another for the same Contract in any relation whatsoever.

17.5 The bidder shall quote the rate of each item both in figures and words.

D. SUBMISSION OF BIDS

18.0 The Technical Bid (Part I) and The Commercial Bid (Part II) has to be uploaded on-line at NCDFI eMarket portal.

19.0 Deadline for Submission of Bids:

19.1 Bids must be uploaded on or before the date and time of submission as stated in the bid**.**

19.2 The IDMC LTD may, at its discretion, extend the deadline for the submission of bids by issuing an amendment in accordance with **clause 8** hereof, in which case all rights and obligations of IDMC LTD and the bidders previously subject to the original deadline shall thereafter be subject to the new deadline as extended.

20.0 Late Bids: N o t Applicable

21.0 Modification and Withdrawal of Bids

21.1 The bidder cannot modify or withdraw his bid after bid submission

21.2 Withdrawal of the bid during the interval between the deadline for the submission of bids & the expiry of the period of bid validity shall result in the forfeiture of the Earnest Money Deposit (EMD) pursuant to **clause 14.**

E. BID OPENING AND EVALUATION

22.0 Bid Opening

The IDMC LTD will open the technical bids as per company norms.

Commercial bids will be opened electronically of only those bidders whose Technical Bid is found to be acceptable by IDMC LTD.

The IDMC LTD will examine the bids to determine whether they are complete,

whether the requisite Earnest Money Deposit (EMD) have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.

23.0 Process to be Confidential:

23.1 After the public opening of bids, information relating to the examination clarification, evaluation and comparison of bids and recommendations concerning the award of Contract shall not be disclosed to bidders or other persons not officially concerned with such process until the award of the Contract tothe successful bidder has been announced.

23.2 Any effort by a bidder to influence the IDMC LTD in the process of examination, clarification, evaluation and comparison of bids and in the decision concerning the award of Contract may resultin the rejection of the bidder's bid.

24.0 Clarification of Bids:

24.1 To assist in the examination, evaluation and comparison of bids, the IDMC LTD may ask the bidders individually for clarification of their bids, including break down of unit rates. The request for clarification and the response shall be in writing but no change in the price or substance of the bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the IDMC LTD during the evaluation of the bids in accordance with **clause 26.**

25.0 Determination of Responsiveness

25.1 Prior to the detailed evaluation of the bids the IDMC LTD will determine whether each bid is substantially responsive to therequirements of the bidding documents.

25.2 For the purpose of this clause, a substantially responsive bid is one which conforms to all terms, conditions and specifications of the bidding documents without material deviation or reservation. A material deviation or reservation is one which affects in any substantial way the scope, quality or the performance of the works or which limits in any substantial way, inconsistent with the bidding documents, the IDMC LTD's rightor the bidder's obligations under the Contract, and the rectification of which deviation or reservation would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

25.3 If a bid is not substantially responsive to the requirements of the bidding

documents, it will be rejected by IDMC LTD and may not be subsequently made responsive by the bidder havingcorrected or withdrawn the non-conforming deviation or reservation.

26.0 Correction of Errors: Not Applicable

27.0 Conversion to Single Currency:

27.1 All bid prices shall be submitted in Indian currency only.

28.0 Evaluation and comparison of the Bids:

28.1 The IDMC LTD evaluate and compare only bids determined to be substantially responsive to the requirements of the bidding documents in accordance with **clause 25.**

28.2 In evaluating bids, the IDMC LTD will determine for each bid the evaluated price by adjusting the bid price making any correction for errors pursuant to **clause 26.0**

28.3 The IDMC LTD reserves the right to accept or reject any variation, deviation or alternative offers. Variations, deviations and alternative offers and other factors which are in excess of the requirement of the bidding documents or otherwise result in the accrual of unsolicited benefits to the IDMC LTD shall not be takenin to account in bid evaluation.

28.4 Price variation provisions of the Contract shall be taken in to account in bid evaluation pursuant to **clause 11.5**

28.5 Additional Performance Security:

If the bid of the successful bidder is having ALR (Abnormally Low Rates i.e. the rates less than 40% of estimated rates) for prices of individual items or total bid price offered in relation to the IDMC LTD's item rates estimate or total price estimate of the real cost of the work to be performed under the Contract, the IDMC LTD may require that the amount of the performance security deposit set forth in the **clause 33.0** be increased at the expense of the successful bidder to a level sufficient to protect the IDMC LTD against financial loss in the event of subsequent performance of the successful bidder under the Contract.

28.6 Upon the furnishing by the successful bidder of a performance security in accordance with the clause **33** the IDMC LTD may notify the unsuccessful bidders that their bids have been unsuccessful.

29.0 Award Criteria

The Purchaser will award the contract to the successful bidder whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid provided further the bidder is determined to be qualified to perform the contract satisfactorily as per clause 28.

Subject to Para 29.1, the Purchaser will award one single contract or more than one contract to the successful bidder at the Purchaser's discretion.

30.0 IDMC LTD's Right to accept any bid and to reject any or all bids.

The IDMC Limited reserves the right to accept or reject any offer /bid and to annul the bidding process and reject all offers/ bids, at any time prior to the award of the Contract, without thereby incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) of the grounds for the IDMC Limited's action.

31.0 Notification of Award

31.1 Prior to the expiry of the period of offer /bid validity prescribed in the enquiry / bid documents, the IDMC Limited will notify the finalized bidder / vendor here in after referred to as the "Agency / Contractor", in writing on acceptance of their offer /bid and issue a Letter of Intent / Award, followed by Detailed Purchase order mentioning all the required terms and conditions and (hereinafter and in the Conditions of the Contract referred to as the "Contract price")

31.2 Upon the furnishing by the successful bidder of a performance security in accordance with the **clause 33** the IDMC LTD may notify the unsuccessful bidders that their bids have been unsuccessful.

32.0 Signing of Agreement:

32.1 At the same time that the IDMC LTD notifies the successful bidder that his bid has been accepted, the IDMC LTD will send the bidder the Form of Agreement provided in the bidding documents **(Section VIII),** incorporating all agreements between the parties.

32.2 Within **15 days** of the receipt of the Form of Agreement the successful bidder shall sign the Form and return it to IDMC LTD.

33.0 Performance Security:

33.1 Within **30 days** of the receipt of the notification of award from the IDMC LTD,

the successful bidder shall furnish to the IDMC LTD a performance security for an amount of **5% (five percent)** of the Contract cost pursuant to **clause 10.0 of General Conditionsof Contract (Section II).**

Failure of the successful bidder to comply with the requirements of the **clause 32 or 33** shall constitute sufficient grounds for the annulment of the award and forfeiture of theEarnest Money Deposit (EMD).

34.0 License and Permit for Goods/Services:

Unless stated otherwise, no license or permit shall be provided by Purchaser/Owner/Service Recipient for the Goods/Services being provided by contractor against this bid.

SECTION – II

GENERAL CONDITIONS OF CONTRACT

SECTION II GENERAL CONDITIONS OF CONTRACT

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GENERAL CONDITIONS OF CONTRACT

DEFINITIONS AND INTERPRETATIONS

1.0 DEFINATION AND INTERPRETATION: In the Contract, as hereinafter defined, the following words and expressions shall have the meanings hereby assigned to them, except where the context otherwise requires

1.1 OWNER/PROJECT AUTHORITY/ SERVICE RECIPIENT - shall mean the client on whose behalf the enquiry is issued by the IDMC Limited and shall include its successors and assignees, as well as its authorized representatives.

1.2 PURE AGENT/ CONSULTANT shall mean the IDMC Limited or the consultants appointed by the IDMC Limited or the Owner for the Project.

1.3 IDMC LTD shall mean the IDMC LIMITED

1.4 ENGINEER shall mean the Engineer or any other authorized representative of the IDMC LTD.

1.5 Architect shall mean the architect appointed by the IDMC LTD/Owner.

1.6 Structural Consultants shall mean the Structural Consultants appointed by the IDMC LTD/Owner.

1.7 Bidder shall be the firm/party/individual who submits the bid against the Invitation for Bid.

1.8 Contractor shall mean the successful bidder whose Bid has been accepted by the Owner / IDMC LTD and on whom a work order has been placed and shall include his heirs, legal representatives and assignees.

1.9 Sub-Contractor shall mean the person/firm/ party named by the Contractor whom a part of the Contract has been sublet with the consent of owner /IDMC LTD and shall include his heirs, successors, legal representatives, and assignees.

1.10 Contract price/rate shall mean the prices/rates of the accepted Bid.

1.11 Contract shall mean the work order along-with articles of agreement, the conditions, the appendix, the schedule of quantities, and/or specifications attached herewith.

1.12 "Notice in writing" shall mean a notice in written, typed or printed characters sent (unless delivered personally or otherwise proved to

have been received) by courier/registered/ordinary post to the last known address or the 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.

1.13 "**Engineer –In-charge**" means the site engineer designated as such or other Engineer appointed from time to time by purchaser.

1.14 **Site** shall mean the actual place of the proposed project or any other place where work is to be executed under the Contract. It shall also include any other land allotted by the IDMC LTD for the Contractor's use.

1.15 **Month** shall mean from the beginning of a given date of a calendar month to the end of the preceding date of the next calendar month.

1.16 **Week** shall mean seven consecutive days.

1.17 **Day** shall mean a day from midnight to midnight.

1.18 **Building** shall mean the proposed building (s), roads, fencing, sanitary and water supply, underground/overhead water tank etc. under the Contract.

1.19 **Bid Security** shall mean the sum paid along with the bid as a token to bind the Contract.

1.20 **Award** shall mean the written acceptance of Bid by the IDMC LTD/owner given to the successful bidder.

1.21 **Performance Security** shall mean the amount pledged with the IDMC LTD while signing the agreement for faithful and satisfactory performanceof the Contract.

1.22 **Constructional Plant** shall mean all appliances or things of whatsoever nature required in or about the execution and maintenance of the Works but does not include the materials or other things required /intended to form or forming part of the Works.

1.23 **Specifications** shall mean the specification referred to in the bid and any modification thereof or addition thereto as may from time to time be furnished or approved in writing by the IDMC LTD/Engineer.

1.24 **Drawings** shall mean drawings referred to in the specifications and any modification of such drawings approved in writing by the Engineer and such other drawings as may from time to time be furnished or approved in writing by the IDMC LTD/Engineer / consultant.

1.25 Temporary Works shall mean temporary works of every kind required in or about the execution or maintenance of works.

1.26 Permanent Works shall mean the permanent works to be executed and maintained in accordance with the Contract.

1.27 Works shall include both temporary works and permanent works.

1.28 Approved/Approval shall mean approval in writing, including subsequent written confirmation of previous verbal or written approval.

1.29 I.S.S. shall mean Indian Standard Specifications

1.30 Government shall mean the Government of India or any other State Government.

1.31 Tender shall mean the Bid.

1.32 Headings and Marginal notes:
All headings of and notes to the clauses of these Conditions of Contract or of and to the Specifications or any other bid document are solely for the purpose of giving concise indication and not a summary of the contents thereof, and they shall never be deemed to be the part of or be used in the interpretation or construction thereof or of the Contract.

1.33 Singular and Plural.
In this Contract document unless otherwise stated specifically the singular shall include the plural and vice-versa wherever the context so requires.

1.34 Cost
The cost shall be deemed to include overhead costs whether on or off the site.

1.35 Purchaser
The organization who is purchasing the goods/services.

ENGINEER & ENGINEER'S REPRESENTATIVE

2.0 Duties and Powers of the Engineer and the Engineer's Representative:

2.1 The field management shall be the responsibility of the Engineer. The Engineer shall carry out such duties as taking decisions and issuing

certificates and orders as specified in the Contract. The Engineer is empowered to take decisions on the following matters:

(a) Approval of subletting of any part of the works pursuant to **clause 4.0** hereof;

(b) Certification of additional sums under **sub-clause 53(2)** hereof;

(c) Determination of an extension of time pursuant to **clause 44.0** hereof;

(d) Issuance of a variation order pursuant to **clause 52.0** hereof;

(e) Fixing rates or prices for the additional works executed under the Contract pursuant to **clause 52.0** hereof.

2.2 The Engineer's Representative shall be responsible to the Engineer and his duties are to watch and supervise the works and to test and examine any materials to be used or workmanship employed with the works. The Contractor shall get the materials or the workmanship tested, as instructed by the Engineer's Representative, at his own cost. He shall have no authority to relieve the Contractor of any of his duties or obligations under the Contract nor, except as expressly provided hereunder or elsewhere in the Contract, to order any work involving delay or any extra payment by the Service Recipient/ IDMC LTD, nor to make any variation of or in the works.

2.3 The IDMC LTD may from time to time in writing delegate to the Engineer's Representative any of the powers and authorities vested in the Engineer. Any written instruction or approval given by the Engineer's Representative to the Contractor within the terms of such delegations, but not otherwise, shall bind the Contractor as though it had been given by the Engineer provided always as follows:

(a) Failure of the Engineer's Representative to disapprove any work or materials shall not prejudice the power of the Engineer thereafter to disapprove such work or materials and to order the pulling down, removal or breaking up thereof.

(b) If the Contractor shall be dissatisfied by reason of any decision of the Engineer's Representative he shall be entitled to refer the matter to the Engineer, who shall there upon confirm, reverse or vary such decision.

3.0 Inspection of Works:

3.1 The IDMC LTD and his representatives shall have full power and authority to inspect the works at any time wherever the work is in progress either on the site or at the Contractor's premises/ workshop wherever situated, premises/ workshop of any person, firm or corporation where the work in connection with the Contract may be in hand or wherefrom materials are being produced or are to be supplied, and the Contractor shall afford or procure for the Engineer every facility and assistance to carry out such inspection. The Contractor shall at all times during usual working hours and at all other times at which reasonable notice of the intention of the Engineer or the Engineer's Representative to visit the works shall have been given to the Contractor, either himself be present to receive the orders and instructions, or have a responsible agent /representative duly accredited in writing present for the purpose. Orders given to the Contractor's agent/ representative shall be considered to have the same force as if they had been given to the Contractor himself. The Contractor shall give not less than **three days** notice in writing to the Engineer's Representative before covering up or otherwise placing beyond the reach of inspection and measurement any work in order that the same may be inspected and measured. In the event of breach of the above the same shall be uncovered at the Contractor's expenses for carrying out such measurement or inspection.

3.2 No materials shall be removed from the site before obtaining the approval in writing of the Engineer. The Contractor is to provide at all times during the progress of the work and the maintenance period proper means of access with ladders, gangways, etc. and the necessary attendance to move and adopt as directed for inspection or measurement of the works by the Engineer's Representative.

3.3 The Contractor shall make available to the Engineer's Representative free of cost all necessary instruments and assistance in checking of setting out of works and checking of any works made by the Contractor for the purpose of setting out and taking measurements of works.

3.4 Nothing in this clause shall in any way relieve the contractor from any warranty or other obligations under the contract.

4.0 Sub-letting of Work:

4.1 The Contractor shall not sub-let the whole of the works. Except where otherwise provided by the Contract, the Contractor shall not sub-let any part of the works without prior written consent of the Engineer, which shall not be unreasonably withheld, and such consent, if given

shall not relieve the Contractor from any liability or obligation under the Contract and he shall be responsible for the acts, defaults and negligence of any sub-contractor, his agents, servants or workmen as fully as if they were the acts, defaults or negligence of the Contractor, his agents, servants or workmen, provided always that the provision of labour on a piece work basis shall not be deemed to be a sub-letting under this clause.

CONTRACT DOCUMENT

5.0 Language and Law of Contract:

5.1 i) All written material and correspondence shall be in **English.**
ii) The law to which the Contract is to be subjected and according to which the Contract is construed, shall be the law being in force in India and/or the state where the Contract shall be performed.

5.2 Documents Mutually Explanatory:

Except if and to the extent otherwise provided by the Contract, the provisions of the General Conditions and Special Conditions of the Contract shall prevail over those of any other documents forming part of the Contract. Several documents forming the Contract are to be taken as mutually explanatory. Should there be any discrepancy, inconsistency, error or omission in the Contracts or any of them the matter may be referred to Engineer who shall give his decisions and issue to the Contractor instructions, directing in what manner the work is to be carried out. The decision of the Engineer shall be final and conclusive and the Contractor shall carry out the work in accordance with this decision.

5.3 Works shown upon the drawing but not mentioned in the specifications or described in the specifications without being shown on the drawings shall nevertheless be held to be included in the same manner as if they had been specifically shown upon the drawings and described in the specifications.

6.0 Drawings: their Purpose and the Custody:

6.1 The Contract drawings read together with the Contract specifications are intended to show and explain the manner of executing the work and to indicate the type and the class of materials to be used.

6.2 In case any feature of the work is not set forth in the drawings and specifications, the Contractor shall forthwith apply to the Engineer for further instructions, drawings or specifications.

6.3 The drawings shall remain in the sole custody of the Engineer, but two copies shall be issued to the Contractor free of charge. One copy of the drawings, furnished to the Contractor as aforesaid, shall be kept by the Contractor on the site and the same shall at all reasonable times be available for inspection and use by the Engineer or the Engineer's Representative and by any other person authorized by the Engineer in writing. At the completion of the Contract the Contractor shall return to the Engineer all drawings issued under the Contract. The drawings and specifications issued are sole property of the Purchaser/ Consultants and these can not be reproduced/ copied or used for any other works without a written consent of the Purchaser/ Consultant.

6.4 The Contractor shall give written notice to the Engineer whenever planning or progress of the works is likely to be delayed unless any further drawing or instruction is issued by the IDMC LTD/ Engineer within a reasonable time. The notice shall include the detail of the drawing or instruction required and of why and by when it is required and of any delay or disruption likely to be suffered if it is late.

6.5 The contractor shall submit the following information, in triplicate, to the Engineer for approval within the time stipulated against each item below:

a) A general layout plan of construction plant and equipment for the execution of work within **fourteen days** from the date of notice to proceed with the work; and

b) drawings or prints showing the location of major plants and other facilities which he proposes to put up at the site, including any changes in the general layout, at least **fourteen days** prior to the commencement of the respective work.

7.0 Further Drawings and Instructions:

7.1 The Engineer may also authorize his representatives to perform his duties and functions. The Contractor shall carry out and be bound by the same. The Engineer shall have full powers and authority to supply to the Contractor from time to time, during the progress of the works, such further drawings and instructions as shall be necessary for the proper execution of the project.

GENERAL OBLIGATIONS

8.0 Contractor's General Responsibilities:

8.1 The Contractor shall, subject to the provisions of the Contract, and with due care and diligence, execute and maintain the Works and

provide all labour, including the supervision thereof, materials, Construction Plant and all other things, whether of a temporary or permanent nature, required in and for such execution and maintenance, so far as the necessity for providing the same is specified in or is reasonably to be inferred from the Contract.

8.2 The Contractor shall take full responsibility for the adequate stability and safety of all site operations and methods of construction, provided that the Contractor shall not be responsible, except as may be expressly provided in the Contract, for the design or specification of the Permanent Works, or for the design or specification of any Temporary Works prepared by the Engineer.

9.0 Contract Agreement:

9.1 The Contractor shall be called upon so to do enter into and execute a Contract Agreement, in the form provided at **Section VIII (Form of Agreement)** with such modification as may be necessary.

10.0 Performance Security:

10.1 Within **30 days** of the receipt of the notification of the Award of the Contract from the IDMC LTD the successful bidder shall furnish to the IDMC LTD a performance security for an amount **of 5% (five percent)** of the total Contract value.

10.2 The proceeds of the performance e security shall be payable to the IDMC LTD as compensation for any loss resulting from the Contractor's failure to complete his obligation under the Contract.

10.3 The performance security shall be **denominated** in Indian Rupees and shall be in any of the following forms:

a) A Demand draft drawn in favour of the IDMC Limited, payable at the place mentioned in the address of communication stated in the Invitation for Bid **(Section O).**

b) A Bank Guarantee issued by a Nationalized Indian Bank or a foreign bank having branches in India. The acceptable form shall be strictly as provided in **Section IX (Acceptable Forms OF Bank Guarantees)** of the Bidding documents.

10.4 The bank guarantee (B.G.) shall be valid till warranty/ defects liability period of 12 months **plus 3 months claim period/as per standard RBI guideline.** The B.G. can be initially accepted for a period as per Banking norms, on written undertaking of contractor/ bidder that the BG shall be extended before its expiry & shall be kept

valid till warranty/ defects liability period of 12 months **plus 3 months claim period/ as per standard RBI guideline**. The validity of the bank guarantee shall be suitably extended in the event of extension of time of the Contract pursuant **to clause no. 44** herein.

10.5 The performance security shall be released by the IDMC LTD not later than **60 days** following the date of delivery of the Maintenance/warranty certificate by the Engineer.

10.6 In the event of increase in the Contract cost, in actual execution, proportionate additional performance security shall be provided by the Contractor or recovered from the subsequent payments due to the contractor.

10.7 In the event of decrease in the Contract cost the performance security shall be proportionately adjusted on the completion of the work.

10.8 No interest shall be paid by IDMC LTD for the amount deposited as Performance security with the IDMC LTD.

11.0 Inspection of Site:

11.1 The Contractor shall be deemed to have inspected and examined the site and its surroundings and information available in connection therewith and to have satisfied himself, before submitting his Tender, as to the form and nature thereof, including the sub-surface conditions, the hydrological and climatic conditions, the extent and nature of work and materials necessary for the completion of the Works, the means of access to the Site and accommodation he may require and, in general, shall be deemed to have obtained all necessary information, subject as above mentioned, as to risks, contingencies and all other circumstances which may influence or affect his Tender.

12.0 Sufficiency of Tender:

12.1 The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his Tender for the Works and of the rates and prices stated in the priced Schedule of Quantities and the Schedule of Rates and Prices, if any, which Tender rates and prices shall, except insofar, as it is otherwise provided in the Contract, cover all his obligations under the Contract and all matters and things necessary for the proper execution and maintenance of the Works.

13.0 Work to be to the Satisfaction of Engineer:

13.1 The Contractor shall execute and maintain the Works in strict accordance with the Contract to the satisfaction of the Engineer and shall comply with and adhere strictly to the Engineer's instructions and directions on any matter whether mentioned in the Contract or not, touching or concerning the Works. The Contractor shall take instructions and directions only from the Engineer.

14.0 Programme to be furnished:

14.1 The Contractor shall, after the acceptance of his Tender, submit to the Engineer for his approval a program showing the order of procedure in which he proposes to carry out the Works. The Contractor shall whenever be required by the Engineer, also provide in writing for his information a general description of the arrangements and methods which the Contractor proposes to adopt for the execution of Works.

14.2 If at any time it should appear to the Engineer that the actual progress of the Works does not conform to the approved program referred to in **sub-clause (1)** of this Clause, the Contractor shall produce, at the request of the Engineer, a revised programme showing the modifications to the approved programme necessary to ensure completion of the Works within the time for completion as defined in **Clause 43** hereof.

14.3 The submission to and approval by the Engineer of such programme or the furnishing of such particulars shall not relieve the Contractor of any of his duties or responsibilities under the Contract.

14.4 The programme shall be reviewed and revised if required at three monthly intervals and shall include a chart of the principal quantities of work forecast for execution monthly and a schedule of payments expected to be made to the Contractor by the IDMC LTD.

15.0 Contractor's Superintendence:

15.1 The Contractor shall give or provide all necessary superintendence during the execution of the Works and as long thereafter as the Engineer may consider necessary for the proper fulfilling of the Contractor's obligations under the Contract. The Contractor, or a competent and authorized agent or representative approved of in writing by the Engineer, which approval may at any time be withdrawn, is to be constantly on the Works and shall give his whole time to the superintendence of the same. If such approval shall be withdrawn by the Engineer, the Contractor shall, as soon as is practicable, having regard to the requirement of replacing him as hereinafter mentioned, after receiving written notice of such withdrawal, remove the agent from the Works and shall not thereafter

employ him on the Works in any capacity and shall replace him by another agent approved by the Engineer. Such authorized agent or representative shall receive, on behalf of the Contractor, directions and instructions from the Engineer.

16.0 Contractor's Employees:

16.1 The Contractor shall provide and employ on the Site in connection with the execution and maintenance of the Works:

a) Only such technical assistants as are skilled and experienced in their respective fields and sub-agents, foremen and leading hands as are competent to give proper supervision to the work they are required to supervise, and

b) Such skilled, semi-skilled and unskilled labour as is necessary for the proper and timely execution and maintenance of the Works.

16.2 It shall be the liability of the Contractor to remove forthwith from the works any personnel engaged by the Contractor, in or about the execution or maintenance of the works, who, misconduct himself or is incompetent or negligent in the proper performance of his duties or whose engagement is otherwise considered to be undesirable and such person shall not be again engaged upon the work. Any person so removed, by the Contractor, from the works shall be replaced, by the Contractor, as soon as possible by a competent substitute.

17.0 Setting-out:

17.1 The Contractor shall be responsible for the true and proper setting-out of the Works in relation to original points, lines and levels of reference given by the Engineer in writing and for the correctness, subject as above mentioned of the position, levels, dimensions and alignment of all parts of the Works and for the provision of all necessary instruments, appliances and labour in connection therewith. If at any time, during the progress of the Works, any error shall appear or arise in the position, levels dimensions or alignment of any part of the Works, the Contractor, on being required so to do by the Engineer shall, at his own cost, rectify such error to the satisfaction of the Engineer, unless such error is based on incorrect data supplied in writing by the Engineer in which case the expense of rectifying the same shall be borne by the IDMC LTD. The checking of any setting-out orof any line or level by the Engineer shall not in any way relieve the Contractor of his responsibility for the correctness thereof and the Contractor shall carefully protect and preserve all bench- marks, sight-rails, pegs and other things used in setting- out the Works.

18.0 Boreholes and Exploratory Excavation:

18.1 If, at any time during the execution of the Works, the Engineer shall require the Contractor to make boreholes or to carry out exploratory excavation, such requirement shall be ordered in writing and shall be deemed to be an addition ordered under the provision of **Clause 52** hereof, unless a provisional sum in respect of such anticipated works shall have been included in Schedule of Quantities.

19.0 Watching and Lighting:

19.1 The Contractor shall in connection with the Works provide and maintain at his own cost all lights, guards, fencing and watching when and where necessary or required by the Engineer, for the protection of the Works, or for the safety and convenience of the public or others.

20.0 Care of Works:

20.1 From the commencement of the Works until the date stated in the Certificate of Completion for the whole of the Works pursuant to **Clause 49** hereof the Contractor shall take full responsibility for the care thereof. Provided that if the Engineer shall issue a Certificate of Completion in respect of any part of the Permanent Works the Contractor shall cease to be liable for the care of that part of the Permanent Works from the date stated in the Certificate of Completion in respect of that part and the responsibility for the care of that part shall pass to the Owner/ IDMC LTD. Provided further that the Contractor shall take the full responsibility for the care of any outstanding work which he shall have undertaken to finish during the Period of maintenance until such outstanding work is completed. In case any damage, loss or injury shall happen to the Works, or to any part thereof, from any cause whatsoever, save and except the excepted risks as defined in **clause 20.3,** while the Contractor shall be responsible for the care thereof the Contractor shall, at his own cost, repair and make good the same, so that at completion the Permanent Works shall be in good order and condition and in conformity in every respect with the requirements of the Contract and the Engineer's instructions. In the event of any such damage, loss or injury happening from any of the excepted risks, the Contractor shall, if and to the extent required by the Engineer and subject always to the provision of **Clause 66** hereof, repair and make good the same as aforesaid at the cost of the IDMC LTD. The Contractor shall also be liable for any damage to the Works occasioned by him in the course of any operations carried out by him for the purpose of completing any outstanding work or complying with his obligations under **Clause 50 or 51** hereof.

20.2 The Contractor shall not demolish, remove or alter the structures, trees or other facilities on the site without the prior approval of the Engineer.

20.3 Excepted Risks:

The "excepted risks" are war, hostilities (whether war be declared or not), invasion, act of foreign enemies, rebellion, revolution insurrection or military or usurped power, civil war, or unless solely restricted to employees of the Contractor or of his sub-contractors and arising from the conduct of the Works, riot, commotion or disorder, or a cause solely due to the Engineer's design of the Works, or ionizing radiation or contamination by radio-activity from any nuclear fuel or from any nuclear waste from the combustion of nuclear fuel, radio-active toxic explosive, or other hazardous properties of any explosive, nuclear assembly or nuclear component thereof, pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds, or any such operation of the forces of nature as an experienced Contractor could not foresee, or reasonably make provisions for or insure against all of which are herein collectively referred to as "the excepted risks".

21.0 Insurance of Works, etc.:

21.1 Without limiting his obligations and responsibilities, the Contractor shall **prior to** the commencement of the Works **(as per appendix-I, Section-V)** insure in the joint names of the Service Recipient and the Contractor by naming Service Recipient as the beneficiary against all losses or damages from whatever cause arising, other than the excepted risks, for which he is responsible under the terms of the Contract and in such manner that the Service Recipient and the Contractor are covered for the period stipulated for loss or damage arising from a cause, occurring prior to the commencement of the Period of maintenance. The realized claim amount by Service Recipient shall be reimbursed to the contractor after making good of the damages by the contractor. **Copy of the insurance policies shall be submitted prior to commencement of the work.**

a) The Works for the time being executed to the estimated current Contract cost thereof **plus 10 percent** thereon to allow for any additional costs and professional fees resulting from the loss or damage.

b) The Constructional Plant and other things brought on to the Site by the Contractor to the replacement value of such Constructional Plant and other things.

c) It shall be the responsibility of the Contractor to notify the insurer of any change in nature and extent of the Works and to ensure the adequacy of the insurance cover at all times in accordance with the provisions of this Clause.

Such insurance shall be effected with an insurer and the Contractor shall, produce to the Engineer/IDMC LTD the policy or policies of insurance and the receipts for payments of the current premiums.

22.0 Damage to Persons and Property:

22.1 The Contractor shall, except if and so far as the Contract provides otherwise, indemnify the IDMC LTD against all losses and claims in respect of injuries or damage to any person or material or physical damage to any property whatsoever which may arise out of or in consequence of the execution and against all claims, proceedings, damages, costs, charges and expenses whatsoever in respect of or in relation thereto except any compensation or damages for or with respect to:-

a) The permanent use or occupation of land by the Works or any part thereof.

b) The right of the IDMC LTD to execute the Works or any part thereof on, over, under, in or through any land.

c) Injuries or damage to persons or property which are the unavoidable result of the execution or maintenance of the Works in accordance with the Contract.

d) Injuries or damage to persons or property resulting from any act or neglect of the Engineer or other Contractors, not being employed by the Contractor, or for or in respect of any claims, proceedings, damages, costs, charges and expenses in respect thereof or in relation thereto or where the injury or damage was contributed to by the Contractor, his servants or agents such part of compensation as may be just and equitable having regard to the extent of the responsibility of the Engineer or other Contractors for the damage or injury.

22.2 The contractor shall indemnify the IDMC LTD/Purchaser/Owner against all claims, proceedings, damages, costs, charges and expenses in respect of the matters referred to in the provision to **sub-clause (1)** of this Clause.

23.0 Third Party Insurance:

23.1 Before commencing the execution of the Works the Contractor, but without limiting his obligations and responsibilities under **Clause 22** hereof, shall insure against his liability for any material or physical damage, loss or injury which may occur to any property, including that of the owner/ IDMC LTD, or to any person, including any employee of the owner/ IDMC LTD, or by arising out of the execution of Works or in the carrying out of the Contract, otherwise than due to the matters, referred to in the provision to **Clause 22.1** hereof.

23.2 Such insurance shall be effected with an insurer. The Contractor shall, produce to the Engineer/ IDMC LTD the policy or policies of insurance and the receipts for payment of the current premiums.

23.3 The terms shall include a provision whereby, in the event of any claim in respect of which the Contractor would be entitled to receive indemnity under the policy being brought or made against the IDMC LTD, the insurer will indemnify the IDMC LTD against such claims and any costs, charges and expenses in respect thereof.

23.4 Such insurance shall be for 10 % of the value of works with number of occurrence unlimited.

24.0 Accident or Injury to Workmen:

24.1 The IDMC LTD shall not be liable for or in respect of any damages or compensation payable at law in respect or in consequence of any accident or injury to any workman or other person in the employment of the Contractor or any sub- Contractor. The Contractor shall indemnify and keep indemnified the IDMC LTD against all such damages and compensation, save and except as aforesaid, and against all claims, proceedings, costs, charges and expenses whatsoever in respect thereof or in relation thereto. Where any case is instituted against the IDMC LTD, the Contractor shall implead himself as a party asif the case has been instituted against the Contractor.

24.2 The Contractor shall insure against such liability with an insurer and shall continue such insurance during the whole of the time that any persons are employed by him on the Works and shall, produce to the Engineer/ IDMC LTD such policy of insurance and the receipts for the payment of the current premium. Provided always that, in respect of any persons employed by any sub-contractor, the Contractor's obligation to insure as aforesaid under this sub-clause shall be satisfied if the sub-contractor shall have insured against the liability in respect of such persons in such manner that the IDMC LTD is indemnified under the policy, but the Contractor shall require such sub-contractor

to produce to the Engineer/ IDMC LTD such policy of insurance and receipt for the payment of the current premium.

24.3 Employee State Insurance (ESI) Act:

The Contractor shall accept full and exclusive liabilities for the compliance with all obligations imposed by the ESI Act 1948, and the Contractor shall further defend, indemnify and hold the Owner/IDMC LTD harmless from any liabilities or penalties which may be imposed by the Central, State or local authorities by reason of any asserted violation by Contractor or sub-contractor of the ESI Act, 1948 and also from all claims, suits or proceedings that may be brought against the Owner/IDMC LTD arising under, growing up or by reason of the work provided for by this Contract whether brought by the employees of the Contractor, by the third parties, or by Central or State Govt. authorities or any political sub-division thereof. The Contractor shall fill in with the ESI the declaration form and all other forms which may be required in respect of the Contractor's or sub-contractor's employees and who are employed by for the works provided for or those covered by ESI from time to time under the agreement. The Contractor shall deduct and secure the agreement of the sub-contractor and deduct the employees contribution as per the first schedule of the ESI Act from wages and affix the employees' contribution cards at wages payment intervals. The Contractor shall remit and secure that agreement of the sub- contractor to remit, the employees contribution as required by the Act. The Contractor shall maintain all codes and records as required under Act in respect of the employees and payment and the Contractor shall secure the agreement of the sub-contractor to maintain such records. Any expense incurred for the contribution or maintaining records shall be to the Contractor's account.

The Owner/IDMC LTD shall retain such amount as may be necessary from the total Contract cost until the Contractor shall furnish satisfactory proof the whole contribution as required by the ESI Act have been paid.

25.0 Remedy on Contractor's Failure to Insure:

25.1 The contractor shall not start work at site without prior written consent/ permission accorded by the site engineer which shall not be accorded in absence of, inter-alia, the required insurance policies. However, if the contractor fails to effect and keep in force the required insurance policies and commences work without authorization, the Contractor shall be solely responsible for any damage or loss.

In addition to this, the failure of the contractor in meeting the above requirements would result in the following penalties:

a) A penalty @ 0.05% of the contract value shall be imposed (by way of deductions from his bills) on the contractor if the contractor fails to submit the required insurance policy and starts work without due authorization.

b) If the contractor fails to extend/renew any of the existing insurance policies before expiry, for every default in any of the insurance policy a penalty @ 0.05% of the contract value shall be imposed (by way of deductions from his bills) on the contractor. The maximum penalty for such defaults would be limited to 0.10%of the contract value.

26.0 Giving of Notices and Payment of Fees:

26.1 The Contractor shall give all notices and pay all fees required to be given or paid by any National or State Statute, Ordinance, or Law, or any regulation, or bye-law of any local or other duly constituted authority in relation to the execution of the Works and by the rules and regulations of all public bodies and companies whose property or rights are affected or may be affected in any way by the Works.

26.2 The Contractor shall conform in all respects with the provisions of any such Statute, Ordinance or Law as aforesaid and the regulations or bye-laws of any local or other duly constituted authority which may be applicable to the Works and with such rules and regulations of public bodies and companies as aforesaid and shall keep the IDMC LTD

indemnified against all penalties and liability of every kind for breach of any such Statute, Ordinance or Law, regulation or bye-law.

26.3 The IDMC LTD will repay or allow to the Contractor all such sums as the Engineer/IDMC LTD shall certify to have been properly payable and paidby the Contractor in respect of such fees.

27.0 Fossils, etc.:

27.1 All fossils, coins, articles of value or antiquity and structures and other remains or things of geological or archaeological interest discovered on the site of the Works shall as between the IDMC LTD andthe Contractor be deemed to be the absolute property of the IDMC LTD. The Contractor shall take precautions to prevent his workmen or any other persons from removing or damaging any such article or thingand shall immediately upon discovery thereof and, before removal, acquaint the Engineer of such discovery and carry out the Engineer's orders as to the disposal of the same.

28.0 Patent Rights and Royalties:

28.1 The Contractor shall save harmless and indemnify the IDMC LTD from and against all claims and proceedings for or on account of infringement of any patent rights, design trademark or name or other protected rights in respect of any Constructional Plant, machine work, or material and for in connection with the Works or any of them and from and against all claims, proceedings, damages, costs, charges and expenses whatsoever in respect thereof or in relation thereto. Except where otherwise specified, the Contractor shall pay all tonnage and other royalties, rent and other payments or compensation, if any, for getting stone, sand, gravel, clay or other materials required for the Works orany of them.

29.0 Interference with Traffic and Adjoining Properties:

29.1 All operations necessary for the execution of the Works shall, so far as compliance with the requirements of the Contract permits, be carried on so as not to interfere unnecessarily or improperly with the convenience of the public, or the access to, use and occupation of public or private roads and footpaths to or of properties whether in the possession of the IDMC LTD or of any other person. The Contractor shall save harmless and indemnify the IDMC LTD in respect of all claims, proceedings, damages, costs, charges and expenses whatsoever arising out of, or in relation to, any such matters in so far as the Contractor is responsible therefore.

30.0 Extraordinary Traffic:

30.1 The Contractor shall use every reasonable means to prevent any of the highways or bridges communicating with or on the routes to the Site from being damaged or injured by any traffic of the Contractor or any of his sub-contractors and, in particular, shall select routes, choose and use vehicles and restrict and distribute loads so that any such extraordinary traffic as will inevitably arise from the moving of plant and material from and to the Site shall be limited, as far as reasonably possible, and so that no unnecessary damage or injury may be occasioned to such highways and bridges.

30.2 Should it be found necessary for the Contractor to move one or more loads of Constructional Plant, machinery or pre- constructed units or parts of units of work over a part of a highway or bridge, the moving whereof is likely to damage any highway or bridge unless special protection or strengthening is carried out, then the Contractor shall before moving the load on to such highway or bridge give notice to the concerned authority of the weight and other particulars of the load to be moved and his proposals for protecting or strengthening the said highway or bridge and obtain approval from that concerned authority at his own cost . He shall keep the Engineer informed of the action taken.

30.3 If during the execution of the Works or at any time thereafter the Contractor shall receive any claim arising out of the execution of the Works in respect of damage
or injury to highways or bridges he shall immediately report the same to the Engineer and thereafter shall negotiate the settlement of and pay all sums due in respect of such claim and shall indemnify the IDMC LTD in respect thereof and in respect of all claims, proceedings, damages, costs, charges and expenses in relation thereto.

30.4 Where the nature of the Works is such as to require the use by the Contractor of water-borne transport the foregoing provisions of this Clause shall be construed as though "highway" included a lock, dock, sea wall or other structure related to a waterway and "vehicle" included craft, and shall have effect accordingly.

31.0 Opportunities for other Contractors:

31.1 The Contractor shall, in accordance with the requirements of the Engineer, afford all reasonable opportunities for carrying out their work to any other Contractors employed by the IDMC LTD/owner and their workmen and to the workmen of the IDMC LTD/owner and of any other duly constituted authorities who may be employed in the execution onor near the Site of any work not included in the Contract or of any Contract which the IDMC LTD may enter into in connection with or

ancillary to the Works. If, however, the Contractor shall, on the written request of the Engineer, make available to any such other Contractor, or to the IDMC LTD or any such authority, any roads or ways for the maintenance of which the Contractor is responsible, or permit the use by any such of the Contractor's scaffolding or other plant on the Site, or provide any other service of whatsoever nature for any such, theIDMC LTD shall pay to the Contractor in respect of such use or service such sum or sums as shall, in the opinion of the Engineer, be reasonable.

32.0 Contractor to Keep Site Clear:

32.1 During the progress of the Works the Contractor shall keep the site reasonably free from all unnecessary obstructions and shall store or dispose of any Constructional Plant and surplus materials and clear away and remove from the site any wreckage, rubbish or Temporary Works no longer required.,

33.0 Clearance of Site on Completion:

33.1 On the completion of the Works the Contractor, at his own cost, shall clear away and remove from the Site all Constructional Plant, surplus materials, rubbish and Temporary Works of every kind, and leave the whole of the Site and Works clean and in a workmanlike condition to the satisfaction of the Engineer. However for removal of surplus excavated earth & existing material, payment shall be made separately as per relevant tender item.

L A B O U R

34.0 Engagement of Labour:

34.1 The Contractor shall make his own arrangements for the engagements of all labour, local or otherwise, and, save insofar as the Contract otherwise provides, for the transport, housing feeding and payment thereof. The Contractor to the extent possible and reasonable to employ staff and labour with required qualifications and experience from source within India.

34.2 The Owner/IDMC LTD may at their own discretion and convenience make available at the site, land for Contractor's field office, godown, workshop and assembly yard required for the execution of the Contract. The Contractor shall at his own cost construct all these temporary buildings and provide suitable water supply and sanitary arrangement approved by the Engineer.

34.3 The personnel so engaged by the Contractor shall be the employees of the Contractor and there shall exist no probity of Contract between the personnel so engaged and the IDMC LTD/Owner.

34.4 On completion of the works undertaken by the Contractor, he shall remove all temporary buildings erected by him and have the site cleaned as directed by the Engineer. If the Contractor shall fail to comply with these requirements, the Engineer may at the expenses of the Contractor remove such surplus and rubbish materials and dispose off the same as he deems fit and get the site cleared as aforesaid; the Contractor shall forthwith pay the amount of all expenses so incurred and shall have no claim in respect of any such surplus material disposed off as aforesaid. The owner reserves the right to ask the Contractor any time during the tendency of the Contract to vacate the land by giving **7 days** notice without giving any reason.

34.5 Land for residential accommodation for staff and labour may be made available at the discretion of the IDMC LTD / Engineer.

34.6 The Contractor shall, so far as is reasonably practicable, having regard to local conditions, provide on the Site, to the satisfaction of the Engineer an adequate supply of drinking and other water for the use of the Contractor's staff and work people.

34.7 The Contractor shall not, otherwise than in accordance with the Statutes, Ordinances and Government Regulations or Orders for the time being in force, import, sell, give, barter or otherwise dispose of any alcoholic liquor, or drugs or permit any such importation, sale, gift, barter or disposal by his sub-contractors, agents or employees.

34.8 The Contractor shall not give, barter or otherwise dispose of to any person or person, any arms or ammunitions of any kind or permit the same as aforesaid.

34.9 The Contractor shall in all dealings with labour in his employment, have due regard to all recognized festivals, days of rest and religious or other customs.

34.10 In the event of any outbreak of illness of an epidemic nature, the Contractor shall comply with and carry out such regulations, orders and requirements as may be made by the Government, or the local medical or sanitary authorities for the purpose of dealing with and overcoming the same.

34.11 The Contractor shall at all times take all reasonable precautions to prevent any unlawful, riotous or disorderly conduct by or amongst his

employees and for the preservation of peace and protection of persons and property in the neighbourhood of the Works against the same. The Contractor shall be responsible to comply with the various labour laws such as **Contract Labour (R&A) Act, 1970, Payment of Wages Act, Minimum Wages Act, Provident Fund Act & Rules etc. in respect of the persons engaged by him.**

34.12 The Contractor shall be responsible for observance by his sub-contractors of the foregoing provisions.

35.0 Returns of Labour, etc.:

35.1 The Contractor shall submit to the IDMC LTD/Owner copies of the licence under the Contract Labour Act, if required and obtained by the Contractor and his Provident Fund Number. The Contractor shall, if required by the Engineer, also deliver to the Engineer a return in detail in such form and at such intervals as the Engineer may prescribe showing the supervisory staff and the numbers of the several classes of labour from time to time employed by the Contractor on the Site and such information respecting Constructional Plant as the Engineer may require.

35.2 The Contractor shall not employ in connection with the works any person who has not **completed fifteen years of age.**

35.3 The Contractor shall in respect of labour employed by him comply with or cause to be complied with the provision of the various **labour laws and rules and regulations such as Contract Labour Act(R&A) Act, 1970, Payment of Wages Act, Minimum Wages Act, Provident Fund Act & Rules etc.** applicable to them in regard to all matters provided therein and shall indemnify the IDMC LTD in respect of all claims that may be made against the IDMC LTD for non-compliance thereof by the Contractor.

35.4 Notwithstanding anything contained herein, the Engineer may take such actions as may be necessary for compliance of the various labour laws and recover the costs thereof from the Contractor.

35.5 In the event of the Contractor committing a default or breach of any of the provisions of labour laws and rules and regulations as applicable, shall pay penalties as imposed by the statutory Authorities and shall indemnify and keep indemnified the IDMC LTD/Owner all such penalties and compensations.

MATERIALS AND WORKMANSHIP

36.0 Materials and Workmanship:

36.1 All materials and workmanship shall be of the respective kinds described in the Contract and in accordance with the Engineer's instructions and shall be subjected from time to time to such tests as the Engineer may direct at the place of manufacture or fabrication, or on the Site or at such other place or places as may be specified in the Contract, or at all or any of such places. The Contractor shall provide such assistance, instruments, machines, labour and materials as are normally required for examining, measuring and testing any work and the quality, weight or quantity of any material used and shall supply samples of materials before incorporation in the Works for testing as may be selected and required by the Engineer.

36.2 All samples shall be supplied by the Contractor at his own cost if the supply thereof is clearly intended by or provided for in the Contract.

36.3 The cost of conducting any test ordered by the Engineer to ascertain the quality of the materials and the workmanship shall be borne by the Contractor.

37.0 Inspection of Operations:

37.1 The Engineer and any person authorized by him shall at all times have access to the Works and to all workshops and places where work is being prepared or from where materials, manufactured articles or machinery are being obtained for the Works and the Contractor shall afford every facility for and every assistance in or in obtaining the right to such access.

38.0 Examination of Work before covering up:

38.1 No work shall be covered up or put out of view without the approval of the Engineer and the Contractor shall afford full opportunity for the Engineer to examine and measure any work which is about to be covered up or put out of view and to examine foundations before permanent work is placed thereon. The Contractor shall give due notice to the Engineer whenever such work or foundations is or are ready or about to be ready for examination and the Engineer shall, unless he considers it unnecessary and advises the Contractor accordingly, attend for the purpose of examining and measuring such work or of examining such foundations.

38.2 The Contractor shall uncover any part or parts of the Works or make openings in or through the same as the Engineer may from time to time direct and shall reinstate and make good such part or parts to the satisfaction of the Engineer. If any such part or parts have been put out of view after compliance with the requirement of **clause 38.1**

and are found to be executed in accordance with the Contract, the expenses of uncovering, making openings in or through, reinstating and making good the same shall be borne by the IDMC LTD, but in any other case all costs shall be borne by the Contractor.

39.0 Removal of Improper Work and Materials:

39.1 The Engineer shall during the progress of the Works have power to order in writing from time to time.

a) The removal from the Site, within such time or times as may be specified in the order, of any materials which, in the opinion of the Engineer, are not in accordance with the Contract.

b) The substitution of proper and suitable materials and

c) The removal and proper re-execution, notwithstanding any previous test thereof or interim payment therefore, of any work which in respect of materials or workmanship is not, in the opinion of the Engineer, in accordance with the Contract.

39.2 In case of default on the part of the Contractor in carrying out such order, the IDMC LTD shall be entitled to employ and pay other persons to carry out the same and all expenses consequent thereon or incidental thereto shall be recoverable from the Contractor by the IDMC LTD or may be deducted by the IDMC LTD from any payment due or which may become due to the Contractor.

40.0 Suspension of Work:

40.1 The Contractor shall, on the written order of the Engineer, suspend the progress of the Works or any part thereof for such time or times and in such manner as the Engineer may consider necessary and shall during such suspension properly protect and secure the work, so far as is necessary in the opinion of the Engineer. The extra cost incurred by the Contractor in giving effect to the Engineer's instructions under this Clause shall be borne and paid by the IDMC LTD unless such suspension is:

a) Otherwise provided for in the Contract, or
b) Necessary by reasons of some default on the part of the Contractor, or
c) Necessary by reason of climatic conditions on the Site, or
d) Necessary for the proper execution of the Works or for the safety of the Works or any part thereof insofar as such necessity does not arise from any act or default by the Engineer or the IDMC LTD or fromany of the excepted risks defined in **Clause 20** hereof.

Provided that the Contractor shall not be entitled to recover any such extra cost unless he gives written notice of his intention to claim to the Engineer within **fifteen days** of the Engineer's order. The Engineer shall settle and determine such extra payment and/or extension of time under **Clause 44** hereof to be made to the Contractor in respect of such claim as shall, in the opinion of the Engineer, be fair and reasonable.

40.2 If the progress of the Works or any part thereof is suspended on the written order of the Engineer and if permission to resume work is not given by the Engineer within a period of **ninety days** from the date of suspension then, unless such suspension is within paragraph (a), (b), (c) or (d) of sub-clause (1) of this Clause, the Contractor may serve a written notice on the Engineer requiring permission within **twenty-eight days** from the receipt thereof to proceed with the Works, or that part thereof in regard to which progress is suspended and, if such permission is not granted within the time, the Contractor by a further written notice so served may, but is bound to, elect or treat the suspension where it affects only part of the Works as an omission of such part under **Clause 52** hereof, or, where it affects the whole Works, as an abandonment of the Contract by the Service Recipient/ IDMC LTD.

COMMENCEMENT TIME AND DELAYS

41.0 Commencement of Works:

41.1 The Contractor shall commence the Works on Site within the period named in the **Appendix to the Tender (Form of Bid)** after the receipt by him of a written order to this effect from the Engineer and shall proceed with the same with due expedition and without delay, except as may be expressly sanctioned or ordered by the Engineer, or be wholly beyond the Contractor's control.

42.0 Possession of Site:

42.1 Save insofar as the Contract may prescribe, the extent of portions of the Site of which the Contractor is to be given possession from time to time and the order in which such portions shall be made available to him and, subject to any requirement in the Contract as to the order in which the Works shall be executed, the IDMC LTD will, with the Engineer's written order to commence the Works, give to the Contractor

possession of so much of the Site as may be required to enable the Contractor to commence and proceed with the execution of the Works in accordance with the programme referred to in **Clause 14** hereof, if any, and otherwise in accordance with such reasonable proposals of the Contractor as he shall, by written notice to the Engineer, make and will, from time to time as the Work proceed, give to the Contractor possession of such further portions of the Site as may be required to enable the Contractor to proceed with the execution of the Works with due dispatch in accordance with the said programmes or proposals, as the case may be. If the Contractor suffers delay from the failure on the part of the IDMC LTD to give possession in accordance with the terms of this Clause, the Engineer shall grant an extension of time for the completion of the Works as, in his opinion shall be fair.

42.2 The Contractor shall bear all costs and charges for special or temporary way leaves required by him in connection with access to the Site. The Contractor shall also provide at his own cost any additional accommodation outside the Site required by him for the purposes of the Works.

43.0 Time for Completion:

43.1 Subject to any requirement in the Contract as to completion of any section of the Works before completion of the whole, the whole of the Works shall be completed, in accordance with the provisions of **Clause 49** hereof, within the time stated in the Contract or such extended time as may be allowed under **Clause 44** hereof.

43.2 Upon acceptance of the bid, the contractor shall submit to the Purchaser/IDMC LTD for his approval a comprehensive work programme in the form of **Bar chart** indicating the critical activities as well. After approval by the Purchaser/IDMC LTD, the contractor shall strictly adhere to the sequence of activities stated therein. The contractor shall review the actual progress of work in each month, in relation to the approved programme and shall inform the Purchaser/IDMC LTD. The submission to and approval by the Purchaser/IDMC LTD of the programme shall not relieve the contractor of any of his duty and responsibility under the contract.

43.3 Time is the essence of the contract to the responsive bidder.

44.0 Extension of Time of Completion:

44.1 Should the amount of extra or additional work of any kind or any cause of delay referred to in these Conditions, or exceptional adverse climatic conditions, or other special circumstances of any kind whatsoever which may occur, other than through a default of the Contractor, be such as fairly to entitle the Contractor to an extension of time for the completion of the Works, the Engineer shall determine

the amount of such extension and shall notify the IDMC LTD and the Contractor accordingly. Provided that the Engineer is not bound to take in account any extra or additional work or other special circumstances unless the Contractor has within thirty days after such work has been commenced, or such circumstances have arisen, or as soon thereafter as is practicable, submitted to the Engineer full and detailed particulars of any extension of time to which he may consider himself entitled in order that submission may be investigated at the time.

45.0 No Night Work:

45.1 Subject to any provision to the contrary contained in the Contract, none of the Permanent Works shall, save as hereinafter provided, be carried on during the night without the permission in writing of the Engineer except when the work is unavoidable or absolutely necessary for the saving of life or property or for the safety of the Works, in which case the Contractor shall immediately advise the Engineer. Provided always that the provisions of this Clause shall not be applicable in the case of any work which it is customary to carry out by rotary or double shifts.

46.0 Rate of Progress:

46.1 If for any reason, which does not entitle the Contractor to an extension of time, the rate of progress of the Works or any section is at any time, in the opinion of the Engineer, too slow to ensure completion by the prescribed time or extended time for completion, the Engineer shall so notify the Contractor in writing and the Contractor shall thereupon take such steps as are necessary and the Engineer may approve to expedite progress so as to complete the Works or such section by the prescribed time or extended time. The Contractor shall not be entitled to any additional payment for taking such steps. If, as a result of any notice given by the Engineer under this Clause, the Contractor shall seek the Engineer's permission to do any work at night, such permission shall not be unreasonably refused.

47.0 Liquidated Damages for Delay:

47.1 If the Contractor shall fail to achieve completion of the Works within the time prescribed in the **Appendix to the Form of Bid,** then the Contractor shall pay to the IDMC LTD the sum at the rate **of 0.5% (zero point five percent)** of the amended up-to date total contract cost as liquidated damages for such default and not as a penalty for **each completed week** (week comprising of **7 days** including holidays and any incomplete week shall be ignored for the calculation of liquidated damages) which shall elapse between the time prescribed by **clause**

43 hereof and the date of certified completion of the particular Works. The IDMC LTD may without prejudice to any other method of recovery, deduct the amount of such damages from any payment in its hands, due or which may become due to the Contractor. The payment or deduction of such damages shall not relieve the Contractor from his obligation to complete the Works, or from any other of his obligations and liabilities under the Contract.

47.2 The aggregate maximum of the liquidated damages payable to the IDMC LTD under this clause shall be subject to a maximum **of 10% (ten percent) of the total order / Contract cost** (i.e. value indicated in letter of acceptance or any subsequent amendment, accepted by the contractor).

47.3 If, before the completion of the whole of the Works any part or section of the Works has been certified by the Engineer as completed, pursuant to **Clause 49** hereof, and occupied by the Owner/IDMC LTD, the liquidated damages for delay shall, for any period of delay after such certificate be reduced in the proportion which the value of the part or section so certified bears to the value of the whole of the Works.

47.4 The criteria for deriving the liquidated damage shall be the actual value of works executed and the amended time of completion.

48.0 Bonus For Early Completion: NOT APPLICABLE FOR THIS CONTRACT.

49.0 Certification of Completion of Works:

49.1 When the whole of the Works have been virtually completed and have satisfactorily passed any final test that may be prescribed by the Contract, the Contractor may give a notice to that effect to the Engineer accompanied by an undertaking to finish any outstanding work during the period of Maintenance. Such notice and undertaking shall be in writing and shall be deemed to be a request by the Contractor for the Engineer to issue a Certificate of Completion in respect of the Works. The Engineer shall, on receipt of such notice either issue to the Contractor, with a copy to the Service Recipient/IDMC LTD, a Certificate of Completion stating the date on which, in his opinion, the Works were virtually completed in accordance with the Contract or give instructions in writing to the Contractor specifying all the work which, in the Engineer's opinion, requires to be done by the Contractor before the issue of such Certificate. The Engineer shall also notify the Contractor of any defects in the Works affecting virtual completion that may appear after such

instructions and before completion of the works specified therein. The Contractor shall be entitled to receive such Certificate of Completion, or on the completion, to the satisfaction of the Engineer, of the works so specified and making good any defects so notified.

49.2 Similarly, in accordance with the procedure set out in **sub- clause (1)** of this Clause, the Contractor may request and the Engineer shall issue a Certificate of Completion in respect of :-

a) Any section of the Permanent Works in respect of which a separate time for completion is provided in the Contract and

b) Any substantial part of the Permanent Works which has been both completed to the satisfaction of the Engineer and occupied by the IDMC LTD/ Owner.

49.3 If any part of the Permanent Works shall have been virtually completed and shall have satisfactorily passed any final test that may be prescribed by the Contract, the Engineer may issue a Certificate of Completion in respect of that part of the Permanent Works before completion of the whole of the Works and, upon the issue of such Certificate, the Contractor shall be deemed to have undertaken to complete any outstanding work in that part of the Works during the Period of Maintenance.

49.4 Provided always that a Certificate of Completion given in respect of any section or part of the Permanent Works before completion of the whole shall not be deemed to certify completion of any ground or surfaces requiring reinstatement, unless such Certificate shall expressly so state.

MAINTENANCE AND DEFECTS
(WARRANTY/DEFECT LIABILITY)

50.0 Definition of Period of Maintenance:

50.1 In these conditions the expressions the expression "Period of Maintenance" shall mean the period of maintenance named in the appendix to the tender, calculated from the date of completion of the works, certified by the engineer in accordance with the **clause 49** hereof, or, in the event of more than one certificate having been issued by the engineer under the said clause, the period of maintenance the expression the " the works" shall be constructed accordingly.

50.2 To the intent that the works shall at or as soon as practicable after the expiry of the period of maintenance be delivered to the IDMC LTD in the condition required by the contract, fair wear and tear expected, tothe satisfactory of the engineer, the contractor shall finish the work, if

any, outstanding at the date of completion , as certified under the **clause 49** hereof, as soon as practicable after which date and shall execute all such work of repair, amendment, reconstruction, rectification and making good defects, imperfections, shrinkage or other faults as may be required of the Contractor in writing by the Engineer during the Period of Maintenance, or **within fifteen days** after its expiry as a result of an inspection made by or on behalf of the Engineer prior to its expiry.

50.3 All such work shall be carried out by the Contractor at his own expense if the necessity thereof shall, in the opinion of the Engineer, be due to the use of materials or workmanship not in accordance with the Contract, or to neglect or failure on the part of the Contractor to comply with any obligation, expressed or implied, on the Contractor's part under the Contract.

50.4 If the Contractor shall fail to do any such work as aforesaid required by the Engineer, the Service Recipient/ IDMC LTD shall be entitled to employ and pay other persons to carry out the same and if such work is work which in the opinion of the Engineer, the Contractor was liable to do at his own expense under the Contract, then all expenses consequent thereon or incidental thereto shall be recoverable from the Contractor by the Service Recipient/ IDMC LTD or may be deducted by the Service Recipient/ IDMC LTD from any payment due or which may become due to the Contractor.

50.5 The warranty/defect liability period shall be 12 month from the date of completion of works as per clause-49.

51.0 Contractor to Search:

51.1 The Contractor shall, if required by the Engineer in writing, search under the direction of the Engineer for the cause of any defect, imperfection or fault appearing during the progress of the Works or in the Period of Maintenance. Unless such defect, imperfection or fault shall be one for which the Contractor is liable under the Contract, the cost of the work carried out by the Contractor in searching as aforesaid shall be borne by the Service Recipient/ IDMC LTD. If such defect, imperfection or fault shall be one for which the Contractor is liable as aforesaid, the cost of the work carried out in searching as aforesaid shall be borne by the Contractor and he shall in such case repair, rectify and make good such defect, imperfection or fault at his own expense in accordance with the provisions of **Clause 50** hereof.

ALTERATIONS, ADDITIONS AND OMISSIONS

52.0 Variations:

52.1 The Engineer shall make any variations of the form, quality or quantity of the Works or any part thereof that may, in his opinion, be necessary and for that purpose, or if for any other reason it shall, in his opinion be desirable, he shall have power to order the Contractor to do any of the following :-

a) Increase or decrease the quantity of any work included in the Contract,

b) Omit any such work,

c) Change the character or quality or kind of any such work,

d) Change the levels, lines, position and dimensions of any part of the Works, and

e) Execute additional work of any kind necessary for the completion of the Works,

f) Change any specified sequence, method or timing of construction of any part of the works,

No such variation shall in any way vitiate or invalidate the Contract, but the value, if any, of all such variations shall be taken into account in ascertaining the amount of the Contract Price.

52.2 No such variations shall be made by the Contractor without an order in writing of the Engineer. Provided that no order in writing shall be required for increase or decrease in the quantity of any work where such increase or decrease is not the result of an order given under this Clause, but is the result of the quantities exceeding or being less than those stated in the Schedule of Quantities. Provided also that if for any reason the Engineer shall consider it desirable to give any such order verbally, the Contractor shall comply with such order and any confirmation in writing of such verbal order given by the Engineer, whether before or after the carrying out of the order, shall be deemed to be an order in writing within the meaning of this clause. Provided further that if the Contractor shall within seven days confirm in writing to the Engineer and such confirmation shall not be contradicted in writing within fourteen days by the Engineer, it shall be deemed to be an order in writing by the Engineer.

53.0 Valuation of Variations:

53.1 All extra or additional work done or work omitted by order of the Engineer shall be valued at the rates and prices set out in the

Contract if, in the opinion of the Engineer, the same shall be applicable. If the Contract does not contain any rates or prices applicable to the extra or additional work, then suitable rates or prices shall be agreed upon between the Engineer and the Contractor. For settling the rates of the extra items, the contractor's cost for overheads and profits shall be taken as **15% (fifteen percent)** of the materials, labour cost etc.. In the event of disagreement the Engineer shall fix such rates or prices as shall, in his opinion, be reasonable and proper.

53.2 Provided that if the nature or amount of any omission or addition relative to the nature or amount of the whole of the Works or to any part thereof shall be such that, in the opinion of the Engineer, the rate or price contained in the Contract for any item of the Works is, by reason of such omission or addition, rendered inapplicable, then a suitable rate or price shall be agreed upon between the Engineer and the Contractor. In case of disagreement the Engineer shall work out and fix the rate or the price.

53.3 In case of any class of work for which there is not such specification supplied by the Owner/Service Recipient/IDMC LTD as is mentioned in the tender documents such work shall be carried out in accordance with Indian Standard Specifications and if the I.S.S. do not cover the same the work should be carried out as per the standard Engineering practice subject to the approval of the Engineer.

Provided also that no increase or decrease under **clause 53.1** or variation of rate or price under **clause 53.2** of shall be made unless, as soon after the date of the order as is practicable and, in the case of extra or additional work, before the commencement of the work or as soon thereafter as is practicable, notice shall have been given in writing:-

a) By the Contractor to the Engineer of his intention to claim extra payment or a varied rate or price or

b) By the Engineer to the Contractor of his intention to vary a rate or price.

53.4 If, on certified completion of the whole of the works, it shall be found that a reduction or increase greater than **25 (Twenty five) per cent** of the sum named in the Letter of Acceptance, results from:-

a) The aggregate effect of all Variation Orders, and

b) All adjustments upon measurement of the estimated quantities set out in the Schedule of Quantities,

But not from any other cause, the amount of the Contract Price shall be adjusted by such sum as may be agreed between the Contractor and the Engineer or, failing agreement, fixed by the Engineer having regard to all material and relevant factors, including the Contractor's site and general overhead costs of the Contract.

53.5 The Contractor shall send to the Engineer once in every month an account giving particulars, as full and detailed as possible, of all claims for any additional payment to which the Contractor may consider himself entitled and of all extra or additional work ordered by the Engineer which he has executed during the preceding month.

No final or interim claim for payment for any such work or expense will be considered which has not been included in such particulars. Provided always that the Engineer shall be entitled to authorize payment to be made for any such work or expense, notwithstanding the Contractor's failure to comply with this condition, if the Contractor has, at the earliest practicable opportunity, notified the Engineer in writing that he intends to make a claim for such work.

PLANT, TEMPORARY WORKS AND MATERIALS

54.0 Plant, etc., Exclusive Use for the Works:

54.1 All Constructional Plant, Temporary Works and materials provided by the Contractor shall, when brought on to the of the Works and the Contractor shall not remove the same or any part thereof, except for the purpose of moving it from one part of the site to another, without the consent, in writing, of the Engineer, which shall not be unreasonably withheld.

54.2 Upon completion of the Works the Contractor shall remove from the Site all the said Constructional Plant and Temporary Works remaining thereon and any unused materials provided by the Contractor.

54.3 The Service Recipient/ IDMC LTD shall not at any time be liable for the loss of or damage to any of the said Constructional Plant, Temporary Works or materials save as mentioned in **Clauses 20 and 66** hereof.

55.0 Approval of Materials, etc., not Implied:

55.1 The operation of **Clause 54** hereof shall not be deemed to imply any approval by the Engineer of the materials or other matters referred to

therein nor shall it prevent the rejection of any such materials at any time by the Engineer.

MEASUREMENT

56.0 Quantities:

56.1 The quantities set out in the Schedule of Quantities **for PEB** are the estimated quantities of the work, but they are not to be taken asthe actual and exact quantities of the Works to be executed by the Contractor in fulfilment of his obligations under the Contract.

57.0 Works to be measured:

57.1 The Engineer shall, except as otherwise stated, ascertain and determine by measurement the value in terms of the Contract of work done in accordance with the Contract. He shall, when he requires any part or parts of the Works to be measured, give notice to the Contractor's authorized agent or representative, who shall forthwith attend or send a qualified agent to assist the Engineer in making such measurement, and shall furnish all particulars required by either of them. Should the Contractor not attend, or neglect or omit to send such agent, then the measurement made by the Engineer or approved by him shall be taken to be the correct measurement of the work. For the purpose of measuring such permanent work as is to be measured by records and drawings, the Engineer shall prepare records and drawings month by month of such work and the Contractor, as and when called upon to do so in writing, shall, within fourteen days, attend to examine and agree such records and drawings with the Engineer and shall sign the same when so agreed. If the Contractor does not so attend to examine and agree such records and drawings, they shall be taken to be correct. If, after examination of such records and drawings, the Contractor does not agree the same or does not sign the same as agreed, they shall nevertheless be taken to be correct, unless the Contractor shall, within fourteen days of such examination, lodge with the Engineer, for decision by the Engineer, notice in writing of the respects in which such records and drawings are claimed by him to be incorrect.

58.0 Method of Measurement:

58.1 The Works shall be measured net, as prescribed in the specification of works, notwithstanding any general or local custom, except where otherwise specifically described or prescribed in the Contract. Wherever not specifically mentioned in the Contract, the mode of measurement as prescribed in the relevant IS codes shall be applicable and binding to the Contract. A list of **ISS code of practices**, which shall be referred to in that event, is attached as **annex to the Section**

IV of Technical Specifications. Only the latest editions of all the codes of practices including all latest official amendments and revisions shall be applicable.

58.2 For measurement of items of work in foundation and plinth & in super structure the criteria shall be the plinth level of the individual buildings covered under this Contract.

NOMINATED SUB-CONTRACTORS

59.0 Definitions of "Nominated Sub-Contractors":

59.1 All specialists, merchants, tradesmen and others executing any work or supplying any goods, materials or services, who may have been or be nominated or selected or approved by the Service Recipient/ IDMC LTD or the Engineer, and all persons to whom by virtue of the provisions of the Contract the Contractor is required to sub-let any work shall, in the execution of such work or the supply of such goods, materials or services, be deemed to be sub-Contractors employed by the Contractor and are referred to in this Contract as "nominated Sub-Contractors".

59.2 The Contractor shall not be required by the Service Recipient/ IDMC LTD or the Engineer or be deemed to be under any obligation to employ any nominated Sub-Contractor against whom the Contractor may raise reasonable objection, or who shall decline to enter into a sub-contractwith the Contractor containing provisions :-

a) That in respect of the work, goods, materials or services the subject of the sub-contract, the nominated Sub- Contractor will undertake towards the Contractor the like obligations and liabilities as are imposed on the Contractor towards the Service Recipient/ IDMC LTD by the terms of the Contract and will save harmless and indemnify the Contractor from and against the same and from all claims, proceedings, damages, costs, charges and expenses whatsoeverarising out of or in connection therewith, or arising out of or in connection with any failure to perform such obligations or to fulfil such liabilities, and

b) That the nominated Sub-Contractor will save harmless and indemnify the Contractor from and against any negligence by the nominated Sub-Contractor, his agents, workmen and servants and from and against any misuse by him or them of any Constructional Plant or Temporary Works provided by the Contractor for the purposes of the Contractor and from all claims as aforesaid.

59.3 If in any connection with any Provisional Sum the services to be provided include any matter of design or specification of any part of

the permanent works or of any equipment or plant to be incorporated therein, such requirement shall be expressly stated in the Contract and shall be included in any nominated Sub-Contract. The nominated Sub-Contract shall specify that the nominated Sub-Contractor providing such services will save harmless and indemnify the Contractor from and against the same and from all claims, proceedings, damages, costs, charges and expenses whatsoever arising out of or in connection with any failure to perform such obligations or to fulfil such liabilities.

59.4 For all work executed or goods, materials, or services supplied by any nominated Sub-Contractor, there shall be included in the Contract Price:-

a) The actual price paid or due to be paid by the Contractor, on the direction of the Engineer, and in accordance with the Sub-Contract;

b) The sum, if any, entered in the Schedule of Quantities for labour supplied by the Contractor in connection therewith, or if ordered by the Engineer as may be determined in accordance with **Clause 53** hereof;

c) In respect of all other charges and profit, a sum being a percentage rate of the actual price paid or due to be paid calculated, where provision for such is made in a special item provided in the Schedule of Quantities for such purpose.

59.5 Before issuing, under **Clause 60** hereof, any certificate, which includes any payment in respect of work done or goods, materials or services supplied by any nominated Sub- Contractor, the Engineer shall be entitled to demand from the Contractor reasonable proof that all payments, less retention, included in previous certificates in respect of the work or goods, materials or services of such nominated Sub-Contractor have been paid or discharged by the Contractor, in default whereof unless the Contractor shall

a) Inform the Engineer in writing that he has reasonable cause for withholding or refusing to make such payments and

b) Produce to the Engineer reasonable proof that he has so informed such nominated sub-contractor in writing,

the Service Recipient/ IDMC LTD shall be entitled to pay to such nominated sub- contractor direct, upon the certificate of the Engineer, all payments, less retention, provided for in the sub-contract, which the Contractor has failed to make to such nominated sub-contractor and to deduct by way of set-off the amount so paid by the Service

Recipient/ IDMC LTD from any sums due or which may become due from the Service Recipient/ IDMC LTD to the Contractor. Provided always that, where the Engineer has certified and the Service Recipient/ IDMC LTD has paid direct as aforesaid, the Engineer shall in issuing any further certificate in favour of the Contractor deduct from the amount thereof the amount so paid, direct as aforesaid, but shall not withhold or delay the issue of the certificate itself when due to be issued under the terms of the Contract.

59.6 In the event of a nominated sub-contractor, as hereinbefore defined, having undertaken towards the Contractor in respect of the work executed, or the goods, materials or services supplied by such nominated sub-contractor, any continuing obligation extending for a period exceeding that of the Period of Maintenance under the Contract, the Contractor shall at any time, after the expiry if the Period of Maintenance, assign to the Service Recipient/ IDMC LTD, at its request and cost, the benefit of such obligation for the unexpired duration thereof.

CERTIFICATE AND PAYMENT

60.0 Interim Payment Certificate:

60.1(a) The Contractor shall submit a bill or shall submit measurement of works executed for the preparation of the bill on computer of Service Recipient/ IDMC LTD for interim payment in 3 copies to the Engineer on a specified date in each month in a form approved by the Engineer. The bill for interim payment shall include the following items, as applicable, which shall be taken in to account in the sequence listed:-

i) The estimated Contract cost of the Permanent Works executed since the submission of the last bill, obtained by applying the base unit rates and prices in the Schedule of Quantities measured by the Engineer pursuant to **clause 57.** Additional part payment of an item in respect of initial part certification shall be admissible in the interim payment bill.

ii) The estimated Contract cost of the Permanent Works as obtained above executed up to the previous bill;

iii) The cumulative estimated Contract cost at base unit rates and prices of the Permanent Works up to the bill in question obtained by adding (i) and (ii) ;

iv) The cumulative amounts approved in respect of extra items executed up to the bill in question, obtained by applying the rates approved.

v) An amount reflecting any changes in cost pursuant to **clause 71 (Refer Clause 11.5 of Vol I Section I of this bidding document)** hereof;
Any amount to be withheld under the retention provisions of **clause 60.3;**

vi) Any credit or debit for the period in question in respect of materials on site intended for, but not yet incorporated in , the Permanent Works in the amount and under the conditions set forth in **clause 60.2;**

vii) Any amount to be deducted on account of the mobilization advance under the provisions set forth in **clause 60.5.**

viii) Any other sum to which the Contractor may be entitled under the Contract.

ix) Deductions of Income tax shall be made on the gross amount of each bill as per the provision of the Income tax Act.

x) Any amount to be deducted on account of water charges and power supply, if any, pursuant to **clause 5.4 & 6.2 of SectionIII, Special Conditions of Contract.**

xi) Any amount to be deducted on account of materials issued to the Contractor pursuant to **clause 7.1 of section III, Special Conditions of Contract.**

60.1(b) Within a reasonable period or any other agreed period of the receipt of the said bill with all required supporting documents for interim payment, it shall be approved or amended such that, in the Engineer's opinion, the certificate reflects the amount due to the Contractor in accordance with the Contract. In cases where there is difference of opinion as to the value of any item, the Engineer's view shall prevail. IDMC engineer/consultant shall verify the milestone invoices and process the payment of certified bill amount within 15 days as per the following stages of payment:.

Stages of Payment	**% of Payment**
Against Material Received at site	70
Upon Erection of Roof and side cladding	20
Final **10%** payment shall be released after completion & handing over and against submission of PBG of 5% valid till warranty/defect liability period	10

Note: The scope of supply shall include transportation, loading and unloading, shifting, erection of primary structural members, secondary structural members, roofing materials, other structural members /accessories, as required in completing the BOQ items for PEB works.
All the necessary documentation shall be properly done during supply, erection and commissioning of PEB.

60.2 Secured Advance for Material:

The Contractor shall be entitled to such sum as the Engineer may consider proper in respect of materials intended for but not yet incorporated in the Permanent Works provided that: The materials are in accordance with the specification for the Permanent Works;

a) Such materials have been delivered to the site, and are properly stored and protected against loss or damage or deterioration to the satisfaction of the Engineer;

b) The Contractor's records of the requirements, orders, receipts and the use of materials are kept in a form approved by the Engineer and such records shall be available for inspection by the Engineer;

c) The Contractor shall submit with his running bill, the estimated value of the materials on site together with such documents as may be required by the Engineer for the purpose of the valuation of materials and providing evidence of ownership and payment therefore ;

d) The ownership of such materials shall be deemed to vest in the Service Recipient; and

e) Secured advance, against an undertaking in the prescribed format can be paid up to 90% of value of the material applicable only for cement, Reinforcement steel & Structural steel brought and physically available at site. The value of such secured advance shall be worked out on the basis of basic rate available in purchase order or invoice rate of building material. The lower valueof the two shall be payable as secured advance against material available at site. In case basic rate of building material is not indicated/ available in the purchase order, the value of such secured advance shall be worked out on the basis of invoice rate of building material. The advance on material shall be recovered as soon as material is used & billed for.

f) The contractor shall have to sign & give the undertaking given below for obtaining secured advance for material on site:

"Certified that the above material I/We have actually brought at the site and I/We have not previously received any advance on the same material. These materials are of imperishable nature and are actually required for use or work in connection with items for which rates for finished work have been agreed upon and agreement has been signed and executed. The above materials on which secured

advance is applied are our own property and free from encumbrances of any kind and I/We will indemnify the Board against all claims to any material in respect of which an advance has been made as aforesaid.

I/We shall made at my/our own cost all necessary and adequate arrangements for proper watch, safe custody and protection against all risks of the said materials and that until used in construction as per contract.

The said material shall remain at the site of the said work in the contractor's custody and on his own responsibility and shall at all times be open to inspection by the Board or any Officer authorized by them. In the event of the materials or any part thereof being stolen, destroyed or damaged or becoming deteriorated. I/We will forthwith replace same with other materials of like quality or repair and made good, the same as required by the Board.

It is hereby agreed and declared that notwithstanding anything in the contract agreement and without prejudice to the power contained therein if and whenever the convenient for payment and repayment herein before contained shall become enforceable and the money owing shall not be paid in accordance with the Board may at any time thereafter adopt all or any of the following courses as they may deem best:

a) Seize and utilize the said materials or any part thereof in the completion of the said works on behalf of the Contractor in accordance with the provisions in that behalf contained in the said agreement debiting the Contractors with the actual cost of effecting such completion and the amount due in respect of advances under these presents and crediting the Contractor with the value of work done as if he had carried it out in accordance with the said agreement and the rates thereby provided. If the balance is against the Contractor he is to pay same to the Board on demand.

b) Remove and sell by public auction the seized materials or any part thereof and out of the money arising from the sale retain all the sums aforesaid repayable or payable to the Board under these present and pay over the Surplus (if any) to the Contractor.

c) Deduct all or any part of the money owing out of the security deposit or any sum due to the Contractor under the said agreement.

g) The secured advance shall be paid as advance money and will be recovered/adjusted on prorate basis from the five submitted invoice.

Signature of the Contractor"

60.3 Retention Money:

a) A retention amounting to **5.0%** of the amount included in any monthly interim payment certificate pursuant to **clause 60.1** due to the Contractor on account of the Permanent Works executed by him shall be made by the Engineer in the first and following certificates until such time as the cumulative total of such deductions shall amount **to 5%** of the total actual value of Work to be done;

b) If the Contractor so requests, the Purchaser/Service Recipient/ IDMC LTD may pay the cumulative amount of retention money to the Contractor upon lodgment with the Service Recipient/ IDMC LTD of a Bank guarantee issued by a Nationalized Indian Bank or a foreign bank having branches in India**.** The acceptable form of Bank guarantee shall be strictly as given in **Section IX** of the bidding document.

c) Retention money in full shall be released to the Contractor upon successful completion of works along with full and final settlement of the contract. Provided always that, if at such time there shall remain to be executed by the Contractor any works ordered during such period pursuant to **clause 50 and 51 hereof**, the Purchaser/Service Recipient/ IDMC LTD shall be entitled to withhold payment until the completion of such works of so much of the balance of the retention money as shall, in the opinion of the Engineer, represent the cost of the works so remaining to be executed; and

d) No interest shall be paid by the Purchaser/Service Recipient/ IDMC LTD to the Contractor for the amount withheld as Retention Money.

e) The bank guarantee (B.G.) shall be valid for the entire period of Contract **plus 3 months claim period**. The B.G. can be initially accepted for a period as per Banking norms, on written undertaking of contractor/ bidder that the BG shall be extended before its expiry & shall be kept valid scheduled completion period stipulated in the contract **plus 3 months claim period**. The validity of the bank guarantee shall be suitably extended in the event of extension of time of the Contract pursuant **to clause no. 44** herein **plus 3 months claim period**.

60.4 The Engineer may by any Interim Payment Certificate make any corrections or modifications in any previous bills (other than one purporting to be a Final payment certificate) which shall have been

issued by him and shall have power to modify or withhold any Interim Payment Certificate if the works or any part thereof are not being carried out to his satisfaction.

60.5 Mobilization Advance Loan:

a) The Service Recipient/ IDMC LTD, if requested for, will make an advance loan to the Contractor for the costs of mobilization in respect of the works in a lump sum amount equivalent to **20%** of the Order/Contract price excluding the costs of the materials to be supplied by the Owner/Service Recipient/ IDMC LTD, always provided that the value of the Contract is more than **Rs.10 lakh**. Payment of the loan will be due under separate certification by the Engineer after;

i) Execution of the **Form of Agreement** by the parties thereto,

ii) Provision by the Contractor of the Performance Security in accordance with **clause 10** hereof, and

iii) Provision by the Contractor of a bank guarantee equivalent to 110% of advance amount, valid till the delivery period of contract issued by a Nationalized Indian Bank or a foreign bank having branches in India. The acceptable form of Bank guarantee shall be strictly as given in **Section IX** of the bidding document. The bank guarantee shall remain effective until the advance loan has been completely repaid by the Contractor out of current earnings under the Contract and certified accordingly by the Engineer.

b) The acceptable form of bank guarantee shall be as given in **Section IX** of bid document. The mobilization advance loan shall be free of interest.

c) Recovery towards mobilization advance paid shall be made proportionately **starting from the first interim RA Bill in a manner so as to recover the entire mobilization advance by the time 80% work is completed**. **In case the scope/value of work is reduced the % rate of recovery shall be enhanced suitably.**

d) The bank guarantee (B.G.) shall be valid for the entire period of Contract **plus 3 months claim period**. The B.G. can be initially accepted for a period as per Banking norms, on written undertaking of contractor/ bidder that the BG shall be extended before its expiry & shall be kept valid scheduled completion period stipulated in the contract **plus 3 months claim period**.

The validity of the bank guarantee shall be suitably extended in the event of extension of time of the Contract pursuant **to clause no. 44** herein **plus 3 months claim period**.

60.6 All interim payments shall be treated as advance payments. On completion of the entire work, the Contractor shall submit his final bill. After verifying the final bill, the Service Recipient/ IDMC LTD will issue to the Contractor a statement (hereinafter called as the Final Account statement). The Contractor shall return the Final Account Statement duly signed as an acknowledgement of full and final value of work performed under the Contract and full & final settlement of the payment. On receipt of this statement back from the Contractor, the final payment shall be released.

61.0 Approval only by Maintenance Certificate:

61.1 No certificate other than the Maintenance Certificate referred to in **Clause 62** hereof shall be deemed to constitute approval of the Works.

62.0 Maintenance Certificate:

62.1 The Contract shall not be considered as completed until a Maintenance Certificate shall have been signed by the Engineer and delivered to the Service Recipient/ IDMC LTD stating that the Works have been completed and maintained to his satisfaction. The Maintenance Certificate shall be given by the Engineer after the expiry of the Period of Maintenance, or, if different periods of maintenance shall become applicable to different sections or parts of the Works, the expiry of thelatest such period, or as soon thereafter as any works ordered during such period, pursuant to **Clause 50 and 51 hereof,** shall have been completed to the satisfaction of the Engineer and full effect shall be given to this Clause, not withstanding any previous entry on the Works or the taking possession, working or using thereof or any part thereof by the Service Recipient/ IDMC LTD/Purchaser.

62.2 The Service Recipient/ IDMC LTD shall not be liable to the Contractor for any matter or thing arising out of or in connection with the Contractor the execution of the works, unless the Contractor shall have made a claim in writing in respect thereof before the issuance of the Maintenance Certificate under this Clause.

62.3 Notwithstanding the issue of the Maintenance Certificate the Contractor and, subject to **clause 62.2,** the Service Recipient/ IDMC LTD shall remain liable for the fulfilment of any obligation incurred under

the provisions of the Contract prior to the issue of the Maintenance Certificate which remains unperformed at the time such Certificate is issued and, for the purposes of determining the nature and extent of any such obligation, the Contract shall be deemed to remain in force between the parties hereto.

REMEDIES AND POWERS

63.0 Default of Contractor:

63.1 If the Contractor shall become bankrupt, or have a receiving order made against him, or shall present his petition in execution levied on his goods, or if the Engineer shall certify in writing to the Service Recipient/ IDMC LTD that in his opinion the Contractor: -

a) Has abandoned the Contract, or
b) Without reasonable excuse has failed to commence the works or has suspended the progress of the works for **28 days** after receiving from the Engineer written notice to proceed, or
c) Has failed to remove materials from the site or pull down and replace work for **30 days** after receiving from the Engineer written notice that the said materials or work had been condemned and rejected by the Engineer under these conditions, or
d) Despite previous warnings by the Engineer, in writing, is not executing the works in accordance with the Contract, or is persistently neglecting to carry out his obligations under the Contract, or
e) Has, to the detriment of good workmanship, or in defiance of the Engineer's instructions to the contrary, sub-let any part of the Contract.

Then the Service Recipient/ IDMC LTD may, after giving **15 day's** notice in writing to the Contractor, enter upon the site and the works and expel the Contractor there from and without thereby voiding the Contract, or releasing the Contractor from any of his obligations or liabilities under the Contract, or affecting the rights and powers conferred on the Service Recipient/ IDMC LTD or the Engineer by the Contract, and may himself complete the works or may employ any other Contractor to complete the works. The Service Recipient/ IDMC LTD or such other Contractor may use for such completion so much of the constructional plant, temporary works and materials, which have deemed to be reserved exclusively for the execution of the works, under the provisions of the Contract, as he or they may think proper, and the Service Recipient/ IDMC LTD may at any time, sell any of the said Constructional Plant, temporary works and unused materials including invocation of bank guarantees and apply the proceeds of sale in or towards the satisfaction of any sum(s) due or which may become due to him from the Contractor under the Contract .

63.2 The Engineer shall, as soon as may be practicable after any such entry and expulsion by the Service Recipient/IDMC LTD, fix and determine **ex parte**, or by or after reference to the parties, or after such investigationor enquiries as he may think fit to make or institute, and shall certify what amount, if any, had at the time of such entry and expulsion been reasonably earned by orwould reasonably accrue to theContractor in respect of work than actually done by him under the Contract and the value of any of the said unused or partially used materials, any Constructional Plant and any temporary works.

63.3 If the Service Recipient/ IDMC LTD shall enter and expel the Contractor under this clause, it shall not be liable to pay to the Contractor any money on account of the Contract until the expiry of Period of Maintenance and thereafter until the costs of execution and maintenance, damages for delay in completion, if any, and all other expenses incurred by the Service Recipient/ IDMC LTD have been ascertained and the amount thereof certified by the Engineer. The Contractor shall then be entitled to receive only such sum(s), if any, as the Engineer may certify would have been payable to him upon due completion by him after deducting the said amount. If such amount shall exceed the sum which would have been payable to the Contractor on due completion by him, then the Contractor shall, upon demand, pay to the Service Recipient/ IDMC LTD the amount of such excess and it shall be deemed a debt due by the Contractor to the Service Recipient/IDMC LTD and shall be recoverable accordingly.

63.4 In such event, the Service Recipient/ IDMC LTD shall charge **15%** overhead to cover the departmental charges and the same shall be recovered form the Contractor.

63.5 No credit shall be allowed to the Contractor in case the amount spent by the Service Recipient/ IDMC LTD for a particular item which shall beless than the amount payable as per the tender amount.

63.6 Risk cost purchase will be applicable if contractor failed to execute work as per owner's schedule and Project Authority/ IDMC Limited is forced to meet work completion through other agency/contractor/sub-contractor, immaterial whether if the liquidated damages is applied with or without expulsion/closure of contract. This will also include the supervision charges of 15% on and above risk purchase cost plus applicable GST.

64.0 Urgent Repairs:

64.1 If, by reason of any accident, or failure, or other event occurring to in or in connection with the works, or any part thereof, either during the execution of the works, or during the Period of Maintenance, any remedial or other work or repair shall, in the opinion of the Engineer,

be urgently necessary for the safety of the works and the Contractor is unable or unwilling at once to do such work or repair, the Service Recipient/ IDMC LTD may employ and pay other persons to carry out such work or repair as the Engineer may consider necessary. If the work or repair so done by the Service Recipient/ IDMC LTD is work which, in the opinion of the Engineer, the Contractor was liable to do at his own expense under the Contract, all expenses properly incurred by the Service Recipient/ IDMC LTD in so doing shall be recoverable from the Contractor by the Service Recipient/ IDMC LTD, or may become due from the Contractor. Provided always that the Engineer, as the case may be, shall, as soon after the occurrence of any such emergency as may be reasonably practicable, notify the Contractor thereof in writing.

SPECIAL RISKS

65.0 No Liability for War etc.:

65.1 Notwithstanding anything in the Contract contained:-

The Contractor shall be under no liability whatsoever whether by way of indemnity or otherwise for or in respect of destruction of or damage to the works, save to work condemned under the provisions **of Clause 39** hereof prior to the occurrence of any special risk hereinafter mentioned, or to property whether of the Service Recipient/ IDMC LTD orof third parties, or for or in respect of injury or loss of life which is the consequence of any special risk as hereinafter defined. The Service Recipient/ IDMC LTD shall indemnify and save harmless the Contractor against and from the same and against and from all claims, proceedings, damages, costs, charges and expenses whatsoever arising there out or in connection therewith.

65.2 If the works or any material on the site, or any other property of the Contractor used or intended to be used for the purposes of the works, shall sustain destruction or damage by reason of any of the said special risks the Contractor shall be entitled to payment for:-

a) Any permanent work and for any materials so destroyed or damaged, and, as so far as may be required by the Engineer, or as may be necessary for the completion of the works, on the basis of costs plus such profit as the Engineer may certify to be reasonable

b) Replacing or making good any such destruction or damage of the works:

c) Replacing or making good such materials or other property of the Contractor used or intended to be used for the purposes of works.

65.3 Destruction, damage, injury or loss of life caused by the explosion or impact whenever and wherever occurring of any mine, bomb, shell, grenade or other projectile, missile, munitions or explosive of war, shall be deemed to be a consequence of the said special risks.

65.4 The Service Recipient/IDMC LTD shall repay to the Contractor any increased cost of or incidental to the execution of the work, other than such as may be attributable to the cost of reconstruction work condemned under the provisions of **Clause 39** hereof, prior to the occurrence of any special risk, which is however, attributable to or consequent on or the result of or in any way whatsoever connected with the said special risks, subject however to the provisions in this clause hereinafter contained in regard to outbreak of war, but Contractor shall as soon as any such increase of cost shall come to his knowledge forthwith notify the Engineer thereof in writing.

65.5 The Special Risks are unprecedented flood, earthquake or other convulsion of nature, war, hostilities (whether war be declared or not) invasion, act of foreign enemies, the nuclear and the pressure wave risk described in **clause 20** hereof, or in so far as it relates to the country in which the works are being or are to be executed or maintained, rebellion, revolution, insurrection, military or usurped power, civil work, or unless solely restricted to the employees of the Contractor or of his Sub-Contractors and arising from the conduct of the works, riot, commotion or disorder.

65.6 If, during the currency of the Contract, there shall be an outbreak of war, whether war is declared or not, in any part of the world which, whether financially or otherwise, materially affects the execution of the works, the Contractor shall, until and unless the Contract is terminated under the provision of this Clause, continue to use his best endeavors to complete the execution of the works. Provided always that the Service Recipient/ IDMC LTD shall be entitled at any time aftersuch outbreak of war to terminate the Contract by giving written notice to the Contractor and, upon such notice being given, this Contract shall, except as to the rights of the parties under this clause and to the operation of **clause 65.8** hereof, terminate, but without prejudice to the right of either party in respect of any antecedent breach thereof.

65.7 If the Contract shall be terminated under the provisions of the last preceding sub-clause the Contractor shall, with all reasonable despatch, remove from the site all constructional plant and shall give similar facilities to his sub-Contractors to do so.

65.8 If the Contract shall be terminated as aforesaid, the Contractor shall be paid by the Service Recipient/ IDMC LTD, as in so far as much amount

or items shall not have already been covered by payments on account made to the Contractor, for all works executed prior to the date of termination at the rates and prices provided in the Contract and in addition:-

a) The amounts payable in respect of any preliminary terms, so far as the works or service comprised therein has been carried out or performed, and a proper proportion as certified by the Engineer of any such items, the work or service comprise in which has been partially carried out or performed.

b) The cost of materials or goods reasonably ordered for the works which shall have been delivered to the Contractor, or of which the Contractor is legally liable to accept delivery, such materials or goods becoming the property of the Service Recipient/ IDMC LTD upon such payments being made by him.

c) A sum to be certified by the Engineer, being the amount of any expenditure reasonably incurred by the Contractor in the expectation of completing the whole of the works insofar as such expenditure shall not have been covered by the payments in thissub-clause before mentioned.

d) Any additional sum payable under the provision of the **clauses 65.1, 65.2, and 65.4.**

e) The reasonable cost of removal of construction plant under **clause 65.7** and, if required by the Contractor, return thereof to the Contractor's main plant yard in his country of registration or to any other destination, at no greater cost.

f) The reasonable cost of repatriation of all the Contractor's staff and workmen employed in or in connection with the works at the time of such termination.

Provided always that against any payments due from the Service Recipient/ IDMC LTD under this sub-clause, the Service Recipient/ IDMC LTD shall be entitled to be credited with any outstanding balances due from the Contractor for advances in respect of constructional plant and materials and any other sums which at the date of termination were recoverable by the Service Recipient/ IDMC LTD from the Contractor under the terms of the Contract.

66.0 Payment in the Event of Frustration:

66.1 If a war or other circumstances outside the control of both parties, arises after the Contract is made so that either party is prevented from

fulfilling his Contractual obligation, or under the law governing the Contract, the parties are released from further performance, then the sum payable by the Service Recipient/ IDMC LTD to the Contractor in respect of the work executed shall be the same as that which would have been payable under **clause 65** hereof if the Contract had been terminated under the provisions of **clause 65** hereof.

67.0 Settlement of Disputes:

67.1 If the Contractor considers any work demanded of him to be outside the requirements of the Contract, or considers any drawings, record or ruling of the Engineer on any matter in connection with or arising out of the Contract or the carrying out of the work to be unacceptable, he shall promptly ask the Engineer in writing, for written instructions of decision. There upon the Engineer shall give his written instructions or decision within a period of **thirty days** of such request.

67.2 Upon the receipt of the written instructions or decisions the Contractor shall promptly proceed without delay to comply with such instructions or decisions.

67.3 If the Engineer fails to give his instructions or decisions in writing within a period of **thirty days** after being requested, or if the Contractor is dissatisfied with the instructions and decisions appeal to the Service Recipient/ IDMC LTD which shall afford an opportunity to the Contractor to be heard and to offer an evidence in support of his appeal. The Service Recipient/ IDMC LTD shall give a decision within a period of **thirty days** after the Contractor has given the said evidence in support of his appeal.

67.4 If the Contractor is dissatisfied with this decision, the Contractor within a period of **thirty days** from the receipt of the decision shall indicate his intention to refer the dispute to Arbitration, failing which the said decision shall be final and conclusive.

68.0 Arbitration:

In the event of any dispute in the interpretation of the terms and conditions of this order/ agreement or difference of opinion between the parties or any point in the order / contract arising out of or in connection with the agreement/ accepted order/ contract or with regard to performance of any obligation hereunder by either party, the parties hereto shall use their best efforts to settle such disputes or difference of opinion amicably by mutual negotiations. In case no agreement is reached, either party may forthwith give to the order, a notice in writing of the existence of such question, dispute or difference of opinion and the same shall be referred to the adjudication of **sole**

arbitrator to be appointed by "IDMC LTD" whose decision in the matter shall be final and binding on the parties. The arbitration proceedings shall be governed under the provisions of the **Indian Arbitration and Conciliation Act of 1996** and the rules thereunder or any statutory notification thereof for the time being in force. In the order/ contract, the venue of such arbitration shall be **Anand (Gujarat)** and courts at Anand alone shall have jurisdiction regarding any matter arising out of order/ contract.

69.0 Notices:

69.1 All certificates, notices or written orders to be given by the Service Recipient/ IDMC LTD or by the Engineer to the Contractor under the terms of the Contract shall be served by sending by post to or delivering the same to the Contractor's principal place of business, or such other address as the Contractor shall nominate for this purpose.

69.2 All notices to be given to the Service Recipient/ IDMC LTD or to the Engineer under the terms of the Contract shall be served by sending by post or delivering the same to the respective addresses nominated for that purpose.

69.3 Either party may change a nominated address to another address in the country where the works are being executed by prior written notice to the other party and the Engineer may do so by prior written notice to both parties.

70.0 Default of Service Recipient/ IDMC LTD:

70.1 In the event of the Service Recipient/ IDMC LTD:-

a) Failing to pay to the Contractor the amount due under any certificate of the Engineer within **60 days** after the same shall have become due under the terms of the Contract, subject to any deduction that the Service Recipient/ IDMC LTD is entitled to make under the Contract, or

b) Interfering with or obstructing or refusing any required approval to the issue of any such certificate, or

c) Giving to the Contractor a formal notice that for any unforeseen reasons, it is impossible for Service Recipient/ IDMC LTD to meet its Contractual obligations.

The Contractor shall be entitled to terminate his employment under the Contract after giving thirty days prior written notice to the Service Recipient/ IDMC LTD, with a copy to the Engineer.

70.2 Upon the expiry of the **fourteen days** notice referred to in **clause 70.1**, the Contractor shall, notwithstanding the provisions of **clause 54.1** hereof, with all reasonable dispatch, remove from the site all constructional plant brought by him thereon.

70.3 In the event of such termination the Service Recipient/ IDMC LTD shall be under the obligations to the Contractor in regard to payment as if the Contract had been terminated under the provisions of **clause 65** hereof, but, in addition to the payments specified in **clause 65.8** hereof, the Service Recipient/ IDMC LTD shall pay to the Contractor the amount of any loss or damage to the Contractor arising out of or in connection with or by consequence of such termination, as are deemed reasonable & fair.

71.0 Changes in Cost and Legislation: (Refer Clause 11.5 of Vol I Section I of this bidding document)

72.0 Taxation:

72.1 The prices quoted by the Contractor shall include all applicable Taxes (GST), levies, cess and duties that may be levied according to the laws and regulations on the constructional plant, material and supplies acquired for the purpose of the Contract and on the services performed under the Contract. Nothing in the contract shall relieve the Contractor from his responsibility to pay any tax that may be levied on profits made by him in respect of the Contract. Any variation after receipt of bids on account of change in rates of applicable Taxes, levies, cess and duties shall be considered for payment provided the price break up is submitted by the party in their bid. If, any altogether new Tax, levy, cess and duty is imposed on such contract after the bid opening date, the same shall be considered for payment / reimbursement upon documentary evidence.

GST Notification No. 20/2017 (Central Tax – Rate) dated 22 August, 2019 is not applicable for this Job.

Applicable GST for this job is @ 18%. However, the actual GST shall be paid as per the prevailing rate at the time of billing.

72.2 The Contractor's staff, personnel and labour will be liable to pay personnel income taxes in respect of such of their salaries and wages as are chargeable under the laws and regulations for the time being in force, and the Contractor thereof as may be imposed on him by such laws and regulations.

72.3 Please refer & provide undertaking as per Schedule-IX of Section VII.

73.0 Bribery and Collusion:

73.1 The Service Recipient/IDMC LTD shall be entitled to terminate the Contract and recover from the Contractor the amount of any loss resulting from such termination if the Contractor shall have offered or given to any person any gift or consideration of any kind as an inducement or reward for doing, or for bearing to do any action in relation to obtaining, or in the execution of Contract or any other Contract with the Service Recipient/ IDMC LTD, or if any of the like acts shall have been done by any person employed by the Contractor or acting on his behalf (whether with or without the knowledge of the Contractor), or if the Contractor shall have come in to any agreement with another Contractor(s) whereby an agreed quotation or estimate shall be offered as a bid to the Service Recipient/ IDMC LTD by one or more Contractors.

73.2 In the event of such termination, the Contractor shall:

a) Proceed as provided in sub **clause 65.7** hereof, and

b) Be paid by the Service Recipient/IDMC LTD as provided in sub **clause.**
65.8 hereof, provided that any loss referred herein shall first be deducted.

74.0 Termination of Contract for Service Recipient / IDMC LTD's Convenience:

74.1 The Service Recipient/IDMC LTD shall be entitled to terminate this Contract at any time for its own convenience after giving **60 days** prior notice to the Contractor, with a copy to the Engineer.

74.2 In the event of such termination the Contractor:

a) Shall proceed as provided in **sub clause 65.7** hereof, and

b) Shall be paid by the Service Recipient/ IDMC LTD as provided in sub **clause 65.8** hereof.

SECTION – III

SPECIAL CONDITIONS OF CONTRACT

SECTION III

SPECIAL CONDITIONS OF CONTRACT

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Section III

SPECIAL CONDITIONS OF CONTRACT

1.0 General:

The following Special conditions of Contract shall supplement the General conditions of Contract, given in **Section II.** Wherever there is a conflict the provision herein shall prevail over those in the General conditions of Contract.

2.0 Taxes:

2.1 The prices quoted by the Contractor shall include all applicable Taxes (GST), levies, cess and duties that may be levied according to the laws and regulations on the constructional plant, material and supplies acquired for the purpose of the Contract and on the services performed under the Contract. Nothing in the contract shall relieve the Contractor from his responsibility to pay any tax that may be levied on profits made by him in respect of the Contract. Any variation after receipt of bids on account of change in rates of applicable Taxes, levies, cess and duties shall be considered for payment provided the price break up is submitted by the party in their bid. If, any altogether new Tax, levy, cess and duty is imposed on such contract after the bid opening date, the same shall be considered for payment / reimbursement upon documentary evidence.

3.0 Time of Completion: 03 Months from the date of LOI/Purchase order and applicable as per GCC

3.1 The Contractor shall execute the Contract up to **10% increase** in the value of the works within the specified completion period of the Contract and no extension of time shall be granted. In case the increase in the value **exceeds 10%** of the Contract amount, proportionate extension of time shall be granted, for the entire amount of increase over the original Contract value.

4.0 Engineer's Office Accommodation & Project's Name Board: Not applicable

4.1 ~~The Contractor shall at his own cost provide a temporary furnished office accommodation in the form of either three nos. of containers (Portable Office Cabins) each **20 sqm** (with AC) or approx. **60 Sq.m building area at the approved locations and as per approved plan** along with **AC** (Air Conditioner) and modern toilet facility with electrical and water connection~~.

~~Further, 4 Nos. office tables, 1 Conference table, 3 Nos. Cupboards, 12 Nos. Chairs, Colour television of 55 inch and A3 multifunctional colour printer, etc. (this includes the replacement of cartridge on time-to-time basis) shall also be provided by Contractor for IDMC LTD site officers. Contractor shall provide free electricity during the duration of contract and shall be liable for regular maintenanceof the facilities. The structure shall be removed after the completion of work, by the Contractor, at his own cost. However, this requirement shall be applicable only if the estimated contract amount is more than **Rs. 100 lakhs.**~~

~~**4.2** The contractor at his own cost shall also provide near the entrance of the project site, a suitable name board fabricated from MS sheet with support structure, duly painted and lettering, indicating the name of project, owner, turnkey consultant, architect, civil contractor and mechanical contractor etc., as per drawing and details approved by purchaser's site engineer. However, this requirement shall be applicable only if the estimated contract amount is more than **Rs. 100 lakhs.**~~

5.0 Water for Construction and Other Use:

5.0 Unless otherwise specified the Contractor shall make his own arrangement for water for the work and nothing extra shall be paid forthe same.

5.1 The water used by the Contractor shall be fit for drinking as well as construction purposes to the satisfaction of the Site Engineer/Project Authority.

5.2 The Contractor may be allowed to construct temporary tube well /wells in the Project site for getting water after he has got written consent of the Owner/Project Authority/Engineer. The Contractor shall be required to provide necessary arrangements to avoid any accident or damage to the buildings, roads, and service lines adjacent to the tube wells/wells sunk. The Contractor shall dismantle the tube well/well on completion of work and restore the ground to its original condition at his own cost.

5.3 In case the Owner/Project Authority/purchaser supplies water, it shall be on the following conditions:

~~**1.**~~ Water charges shall be recovered from each RA bill **@ 0.5%** of net amount of work done of such bill.

2. The water shall be provided at one point in the site at the discretion of the Engineer. The Contractor shall make its own arrangement for water connection and distribution pipe lines in the construction area.

3. The Owner/Project Authority shall not guarantee the maintenance of uninterrupted water supply. It will be the responsibility of the Contractor to make alternative arrangements for water supply at his own cost in the event of any break down so that the progress of work is not affected for want of water. No claim or damage or refund of water charges shall be entertained on account of such break down.

6.0 Power (Electricity) Supply:

6.1 Unless otherwise specified the Contractor shall have to make his own arrangements for the power supply at his cost. All the electrical works shall be done as per **INDIAN ELECTRICITY RULES**. The temporary lines shall be removed by the Contractor at his cost after the completion of the work or if there is any hindrance , to the other works due to the alignment of these lines, during the Contract period.

6.2 In case the ELECTRIC power supply is provided by the Purchaser/Owner/project Authority, it shall be on the following conditions:-

1. Electricity charges shall be recovered from each RA bill **@ 0.5%** of net amount of work done of such bill.

2. The supply shall be made at one point in the site at the direction of the Engineer. The Contractor shall make his own arrangement to receive, carry and distribute the power wherever it is required within the site as per **INDIAN ELECTRICITY RULES.**

3. The Purchaser/owner / project authority shall not guarantee the maintenance of uninterrupted electricity supply and voltage fluctuations etc. It will be the responsibility of the contractor to make alternative arrangements for electricity supply at his own cost in the event of any breakdown so that the progress of work is not affected for want of electricity. No claim or damage or refund of electricity charges shall be entertained on account of the above.

4. ~~The temporary supply lines shall be removed and the site shall be cleared by the Contractor after the completion of the work at his own cost.~~

7.0 Materials to be issued by the Purchaser/Owner/Project Authority:
(Not applicable for this contract)

~~**7.1** If the specification of the work provides for the use of any material of special description to be supplied from the Purchaser/Owner/Project Authority's stores or is required that the Contractor shall use certain stores to be provided by the Engineer, such materials and stores, and price to be charged therefore, as hereinafter mentioned being as practicable for the convenience of the Contractor , but not so as in any way to control the meaning or the effect of the Contract, the Contractor shall bound to purchase and shall be supplied with such materials and stores as are from time to time required to be used by him for the purpose of the Contract only. The sum due from the Contractor for the value of materials supplied by the Project Authority/Owner **plus 5%** of its value towards wastage shall be recovered from the interim bill on the basis of the actual consumption of the materials in the works covered and for which the interim bill has been prepared. After the completion of the works, the Contractor shall account for full quantity of the material supplied to him as per relevant clauses herein.~~

~~**7.2** The value of the materials as may be issued to the Contractor by Purchaser/Owner/Project Authority shall be debited to the Contractor's account at the rate shown in the Schedule of material given **in Section VI (Schedule of material to be issued by owner/IDMC LTD)**of this bidding document and if they are not entered in the schedule, they will be debited at cost price, which for the purpose of the Contract shall include the cost of carriage and all other expenses whatsoever such as normal storage, supervision charges which shall have been incurred in obtaining the same at the Owner/Project Authority's stores. All materials so supplied to the Contractor shall remain the absolute property of the Purchaser/Owner/ Project Authority and shall not be removed on any account from the site of work unless specifically approved by the Engineer and shall be at all times open for inspection to the Engineer. Any such serviceable material remaining unused at the time of the completion or termination of the Contract shall be returned to the Purchaser/Owner/ Project Authority stores at a place as directed by the Engineer in perfectly good condition.~~

~~7.3 Conditions for Issue of Materials~~:

~~**i)** Materials specified as to be issued by the Purchaser/Owner/Project Authority will be supplied to the Contractor by the Engineer from his stores as given in the `**Schedule of material to be supplied by the Owner/ IDMC LTD in Section VI** of this bidding document. It shall be the responsibility of the Contractor to take delivery of the materials and arrange for its loading, transport and unloading at the site of works at his own cost. The material shall be issued during the working hours and as per the rules of the Purchaser/Owner/ Project Authority as framed from time to time.~~

~~**ii)** The Contractor shall bear all incidental charges for the storage and safe custody of the materials at site after they have been issued to him.~~

~~**iii)** Materials as specified to be issued by the Purchaser/Owner/Project Authority shall be issued in standard sizes and quantities obtained from the manufacturers.~~

~~**iv)** The Contractor shall construct suitable godown wherever required at the site of works for storing the issued materials safely against damage by rain, dampness, fire, theft etc. He shall also employ necessary watch and ward establishment for the purpose.~~

~~**v)** It shall be the duty of the Contractor to inspect material supplied to him at the time of taking delivery and satisfy himself that they are in good condition. After the materials have been delivered by the Purchaser/Owner/Project Authority, it shall be the responsibility of the Contractor to keep these in good condition and if the materials are lost or damaged, at any time the value thereof shall be recovered from the Contractor pursuant to **clause 7.4** hereof and **clause 5.0 of Section VI.**~~

~~**vi)** The Purchaser/Owner/Project Authority shall not be liable for delay in supply or non-supply of any material which they have undertaken to supply, where such failure or delay is due to natural calamities, act of enemies, transport and procurement difficulties and any circumstances beyond the control of the Purchaser/Owner/Project Authority. In no case, the Contractor shall be entitled to claim any compensation or loss by him on this account.~~

vii) ~~It shall be the responsibility of the Contractor to arrange in time all materials required for the works other than those supplied by the Purchaser/Owner/ Project Authority. If, however, in the opinion of the Engineer the execution of the works is likely to be delayed due to the Contractor's inability to make arrangements for supply of such materials which normally he has to arrange for the Engineer shall have the right at his own discretion to issue such material if available with the Purchaser/Owner/ Project Authority or procure such materials from the market or elsewhere and the Contractor will be bound to take such materials at the rates decided by the Engineer.~~

~~This, however, shall not absolve the Contractor from the responsibility of making arrangement for the supply of such materials in part or full, should such situation occur nor shall this constitute a reason for delay in the work.~~

~~**vii)** Unless specifically approved by the Engineer, none of the materials supplied to the Contractor shall be utilized by the Contractor for manufacturing the item which can be obtained as supplied from standard manufacturer in finished form.~~

~~ix) The Contractor shall, if desired by the Engineer, be required to execute an indemnity bond in the prescribed form, for safe custody and accounting all materials issued by the Purchaser/ Owner/Project Authority.~~

~~x) The Contractor shall furnish to the Engineer sufficiently in advance the statement showing his requirement of the quantities of the materials to be supplied by the Purchaser/Owner/Project Authority and the time when the same will be required by him for the works, so as to enable the Engineer to make necessary arrangement for procurement and supply of the material.~~

xi) ~~A day account of the materials issued by the owner shall be maintained by the Contractor indicating the daily receipt, consumption and balance in hand. This account shall be maintained in a manner prescribed by the Engineer along with all connected paper viz. requisition, issues etc. and shall be always available for in the Contractor's office at site.~~

xii) The Contractor should see that only the required quantity of the materials is issued. The Contractor shall not be entitled to cartage and incidental charges for returning the surplus materials, if any , to the store wherefrom they were issued or to the place as directed by the Engineer.

xiii) Materials/equipment supplied by the purchaser/Owner / Project Authority shall not be utilized for any other purpose other than issued for.

xiv) Completion of the works and the receipt of unutilized materials issued to the Contractor by the Owner/Project Authority/Purchaser pursuant to **clause 7.3** herein. The Contractor shall submit the reconciliation statement of materials received, utilized in the works and wastage thereon. The wastage of materials so determined shall be accounted for pursuant to **clause 5.0** of **Section VI,** and the value thereof shall be recovered from the Contractor.

7.4 Notwithstanding anything contained to the contrary in any or all clauses of this Contract where any materials for the execution of the Contract are procured with the assistance of the Owner/ Project Authority/ Purchaser either by issue from Owner' stock or purchase made under orders, or permits or licenses issued by the Govt., the Contractor shall hold the said materials as trustee for the owner and use such materials economically and solely for the purpose of the Contract and not dispose them off without the permission of the Owner/ Project Authority/ Purchaser andreturn, if required by the Engineer, all surplus or unserviceable materialsthat may be left with him after the completion of the Contract or at its termination for any reason whatsoever on his being paid or credited such price as Engineer shall determine having due regard to the condition of the materials. The price allowed to the Contractor, however, shall not exceed the amount charged to him excluding the storage charges, if any, shall be decided by the Engineer. In the event of the breach of the aforesaid condition, the Contractor shall, in terms of the licenses or permits and /or for criminal breach of trust, be liable to compensate the Owner/ Project Authority/ Purchaser at double the item rate or at double the prevailing market rate if the material was issued free of charge or any higher rate in the event of those materials at that time having higher rateor not being available in the market, than any other rate to be determinedby the Engineer.

8.0 Works in Existing Plant: NOT APPLICABLE

In cases where the works against this contract have to be carried out by successful bidder in an existing plant/building, the contractor has to follow all the related rules & regulations of the plant & to plan his activities in consultation with owner/purchaser/Project authority's site in-charge so that regular operation/activities of the plant are not affected. There can be restrictions on the movement of workers, stacking of materials & to ensure cleanliness of the area. If any shut down is required by the contractor to work in a operating plant, the same shall be taken through IDMC LTD site in-charge from Project authorities after providing details & it has to be ensured that work is completed within the agreed shutdown period.

Contractor have to provide and erect 3m height barricade using suitable New/ old colour coated MS/ GI sheet and supporting structure all around the proposed buildings as decided by the Engineer in charge and as per project requirement. No additional payment will be given for the barricade works. After completion of the project work the same need to be dismantled and taken back by the contractor as decided by the Engineer in charge.

8.1 CCTV REQUIREMENT DURING CONSTRUCTION:

The bidder shall supply, install & commission High Resolution Video Camera (connected through CCTV system) at site to capture the live images of site execution activities at all the time. The recording of the CCTV footage of the works which are being carried out at site will be made available for the last 15 days only. The older data (>15 days) would get automatically deleted. The cameras is to be kept at strategic locations and should have adequate range of not less than 50m. The cameras should be fitted with infra-red devices to capture nightvision.

There has to be system where in LIVE coverage access be given to the Engineer-in-charge at project site only The locations of all camera will be changed at strategic locations as per directions of Engineer in charge. The bidder shall submit the methodology for the same. The methodology to include the approximate nos. of cameras type of Cameras, Approx. locations of the cameras, ensuring Continuous power supply connectivity, etc. at all times. All cost associated towards. hardware, software, networking, connectivity, power supply etc. is deemed to be included in the contract price.

~~9.0 Cement/steel Consumption, Reconciliation and Variation for Cement/Steel Arranged & Supplied by Contractor:~~

~~9.1~~ ~~Cement: On completion of work, theoretical cement consumption shall be worked out. Over the theoretical consumption, a variation up to – 2.5% (minus two point five percent) is permissible. The difference in quantity of cement bags actually consumed less than the permissible variation shall be recovered at the rate twice the average (for the contract duration) market rate of one cement bag. Nothing extra will be paid for over consumption of cement above the theoretical cement consumption.~~

~~9.2~~ ~~Reinforcement & Structural Steel: Material supplied shall confirm for weight per meter as per relevant I S Code. Variation for under weight shall be allowed as per I S Codes. However no compensation shall be admissible for overweight of material, rolling margin, wastage etc. Reconciliation of steel shall be done at the final bill stage for quantity received, consumed in works and billed, wastage etc. After reconciliation of steel, it is to be ensured that total quantity of steel paid is not more than the total quantity received at site. For this purpose, from each consignment / truck load of steel received at site and for each diameter/category, samples (3 samples for 10 MT of steel) shall be taken jointly & weighed to establish actual unit weight for reconciliation. All this information shall be entered in steel register maintained by site engineer of IDMC LTD.~~

10.0 Storage of Building Materials and Construction Equipment:

10.1 The contractor shall make suitable arrangements at project site for storage of all the material and equipment being supplied by him. Suitable watch and ward arrangement shall be made by the contractor. This arrangement has to be done by the contractor at his own cost.

~~10.2~~ ~~Cement shall be stored in separate godown with pucca floor, weather proof walls and roof. The cement bags shall be stacked horizontally, continuous in each line. The stacks shall be in the rows of 12 bags high with a minimum clearance space of 600mm between stacks and peripheral walls. The capacity of the godown / Silos shall be minimum 1000 bags or above as per requirement of the project and decided by the Engineer In-charge. The cement godown shall be dismantled & site shall be cleared after completion of the works~~

10.3 The Pre-painted sheet roofing shall be stacked strictly as per manufacturers' guideline and stored in a covered shed.

10.4 The fabrication yard for MS sections shall have a levelled pucca floor, and should be maintained dust free at all times. The structural sections shall be stacked & stored orderly so as to avoid initial warping of the sections.

11.0 Rate of Progress - Contractor's Schedule:

A. The schedule prepared by the Contractor shall be based on the normal day of eight hours of working plus a break of one hour. All Sundays and local holidays should be considered as the day of rest. The schedule shall thus be prepared considering above working conditions. The contractor shall plan the resources adequately to meet the schedule date of completion.

B. Progress photographs will be within the scope of bidder. The photograph shall be taken through drone for aerial view every fortnight. After completion of project the videography and all photographs shall be submitted to project authority.

12.0 Mode (Drawings/specifications) of Execution:

The bid drawings/tender drawings displayed/presented for inspection are liable to changes and the work shall be executed as per construction/execution drawings & details released for execution in accordance with technical specifications & schedule of quantities.- The items not covered under technical specifications, if any, shall be executed as per latest applicable BIS code of practice.

13.0 Basic rate of material indicated in schedule of quantities: Not applicable

~~In case of Cement and reinforcement steel price adjustment shall be governed by clause **11.5 of Section-I (Instruction to Bidders) of the tender.**~~

~~In case of **material other than cement and steel (for which basic price is indicated in schedule of quantities),** rate difference (of actual procurement rate and basic rate) shall be paid / recovered, to/from the contractor, for any variation on either side of the basic price. However, price variation (if opted by the bidder for materials other than cement & reinforcement steel) shall be applicable for the value of the items executed excluding the value of material covered by basic rate. The basic rates of material indicated in schedule of quantities & procured by contractor are to be fixed as per basic rate of material indicated in original tax paid purchase bill / invoice including all applicable taxes & duties indicated in original tax paid purchase bill / invoice.~~

14.0 Quality Control Engineer & QA-QC Lab:

14.1 The Contractor shall at his own cost deploy a dedicated and full time qualified quality control engineer (Mechanical) at site throughout the entire duration of the contract. The engineer shall be a B.Tech (Mechanical) with minimum 5 years of experience OR a Diploma (Mechanical) with minimum 7 years of experience specifically in the field of quality assurance and control of similar type of PEB works. The quality engineer should be conversant with relevant IS codes, material testing procedures, record keeping/documentation, in-situ testing, quality conformance of bought out materials & quality of workmanship in various ~~construction~~ activities at project site. The CV & experience certificates of the quality engineer are to be submitted along with the bid document.

Non deployment, delay in deployment and /or withdrawal of quality engineer from project site without prior written permission of IDMC LTD Engineer in charge shall invite permanent deduction of Rs. 80,000/- (Rupees Eighty thousand) per month from the running bills. Thereafter, IDMC LTD will be selecting the quality control engineer to be appointed by the contractor on their rolls for the entire duration of their contract with IDMC LTD. Nothing extra shall be paid by IDMC LTD on this account.

Above conditions at clause no. 14.1 is generally applicable for PEB works contract value of Rs. 5.0 Crore and above.

~~**14.2** The Contractor shall at his own cost construct and maintain for the total duration of the contract an onsite quality control laboratory of size not less than 4m x 3m with white board of size 4feetx3feet, proper working platform, foundations for testing machines and hard levelled floor at the approved location within the project site and as per approved plan by engineer in charge. The laboratory is to be equipped with all required equipment/machines /instruments, power points etc. required for carrying out testing of various construction materials, in-situ tests etc. to implement the quality assurance plan & quality control processes as directed by Engineer-in-charge~~.

15. Instructions for billing:

15.1 Minimum Billing Requirement: Not applicable to this contract

~~At any point during the currency of the contract, the minimum bill submitted by the contractor shall be 2 Crore (basic amount) plus applicable GST.~~

15.2 Billing Plan: The contractor shall submit a detailed billing plan prior to the commencement of work. The billing plan must outline the contractor's expected monthly billing amounts and ensure that the work is completed as per the agreed commitment/timeline. The billing plan shall be calculated by dividing the total purchase order value by the delivery period (in months), with the monthly billing amount being the greater of:

a) ~~1.2 Crore (basic amount)~~

15.3 Adherence to Billing Plan: The contractor is obligated to adhere strictly to the billing plan submitted. Any deviation from the agreed plan, resulting in non-compliance with the minimum billing amount, shall be treated as a breach of contract.

15.4 Non-Compliance and Consequences: In case the contractor fails to meet the minimum billing requirement as specified above, the Engineer-In-Charge reserves the right to reject the contractor's bill without any further explanation or correspondence. Additionally, the contractor may be subject to penalties or other actions deemed appropriate as per the terms of the contract.

15.5 Enforcement: The Engineer-In-Charge has the authority to monitor the contractor's billing progress and ensure compliance with the billing plan and minimum billing requirements throughout the contract duration.

16. Instruction for Local Liaisoning and statutory compliance

16.1 Local Liasoning: The contractor shall be required to ensure that all works and activities undertaken under this contract comply with local regulations, norms, and any specific instructions related to local governance. The contractor must maintain regular communication with the local authorities, if applicable, and ensure that all required permits and approvals are obtained in a timely manner for the smooth execution of the work.

16.2 Statutory Compliance: The contractor shall comply with all applicable laws, statutes, rules, regulations, and orders issued by government authorities, including but not limited to labor laws, environmental regulations, tax laws, safety standards, and any other legal requirements that may be relevant to the performance of the contract. The cost for same shall be included in the quoted rate by the contractor. The contractor is responsible for ensuring that all statutory obligations, including but not limited to:

Registration with local labor authorities

- Registration with BOCW and applicable fees/Cess to be considered. Any invoices/JMS submitted for payment must accompany the details of payment made toward labour Cess.
- Payment of applicable taxes, duties, and levies
- Compliance with health and safety standards
- Environmental compliance requirements
- Any other statutory or regulatory compliance specific to the nature of the work being undertaken are strictly adhered to throughout the duration of the contract.
- Timely compliance related to GST submission to be ensured before submission of bills.

16.3 Indemnification for Non-Compliance:

The contractor shall indemnify and hold harmless the employer from any loss, damage, or penalty that may arise due to the contractor's failure to comply with local regulations or statutory requirements during the execution of the contract.

16.4 Documentation and Reporting:

The contractor shall maintain records of all statutory filings, permits, and compliance reports and shall make these available for inspection by the employer or relevant authorities upon request. The contractor shall provide periodic updates on the status of statutory compliance as may be required by the employer.

16.5 Failure to Comply:

In case of non-compliance with any local regulations or statutory requirements, the employer reserves the right to take corrective action, including but not limited to withholding payment, imposing penalties, or terminating the contract, as deemed appropriate.

SECTION – IV

TECHNICAL SPECIFICATIONS
(CIVIL WORKS)

SECTION IV
TECHNICAL SPECIFICATIONS
TRADE INDEX

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TECHNICAL SPECIFICATION

7.00 STEEL WORK

Applicable Codes

IS:4351 - Steel door frames

IS:1038 - Steel door, windows and ventilators.

IS: 814 - Metal arc welding
815 and 816

7.01 Providing & Fixing Pressed steel frames for doors

It shall be made of hollow metal pressed section of approved make It shall be single/ double rebated as per the Architect's drawing. It shall be made of CR sheet and size 65x125x1.25 mm or 65x150x1.25 mm thick or as specified. It shall be provided with butt hinges of 125x2 mm thick Minimum three hinges shall be provided per leaf of the door of width and height up to 900 mm and 2000 mm respectively, number of hinges to be suitably increased for the larger shutter as per drawing/ as directed. The frame shall be provided with 3 holdfasts of size 150x20x3 mm for each side and the same shall be embedded in brick work with CC 1:2:4 blocks of size 200 x 230/115 x 150 mm. The hollow portion of the frame shall be filled with CC 1:2:4 (1part cement: 2 Sand: 4 parts stone aggregates 10mm and down graded) and cured before the frame is fixed in position.

The frame shall be thoroughly cleaned, free from rust, mill scale, oil by mechanical means or chemical picking and painted with shop coat of zinc chromate primer after inspection of the same or as directed by the Engineer. There shall be provision in the frame for fixing of tower bolts, al-drop, louvers, mortise lock, bed plate for hydraulic door closer etc. The frame shall be painted with two or more coats of synthetic enamel paint of approved make and first quality to get a uniform finish.

Mode of Measurement: The length shall be measured in Running Meter correct to cm along the centre line of the frame.

7.02 Providing & fixing pressed steel section windows / Ventilators Open-able windows / ventilators

The frame shall be of size 100x60x1.25mm thick and it shall be of approved make. The windows to be got fabricated in an approved

workshop as approved by the Engineer The frames shall be double rebated. The frame shall be provided with 3 holdfasts of 100x15x3 mm long and the same shall be grouted with CC 1:2:4 in the brickwork or to RCC member. Shutters shall be made of standard steel sections style F7d, sash bar of T6 and locking bar of F4b section. The hollow portion of the frame shall be filled with CC 1:2:4 as stated in Item spec. no. 7.01 before fixing the frame.

Glazing shall be using float glass of approved make minimum 4mm thick and as per the area of glass pan as specified in Item spec. no. 4.01, shall be fixed with beading as per the Architectural drawing. The beading shall be of Aluminium or GI hollow square pipe of 10 sq.mm and wall thickness 1.25 mm or as specified with EPM rubber gasket. The glass pane when tapped should not give rattling sound.

The section shall be provided with approved make powder coated aluminium stays, Al-drop, handles and washers etc.. The window section shall be shop painted with one coat of zinc chromate / red-oxide primer as specified and shall be painted after completion of the finishing work with two or more coats of synthetic enamel paint of approved make, first quality and shade followed with one coat of red oxide primer at site.

Mode of Measurement: It shall be measured in SqM out to out of frame.

7.03 Providing & fixing pressed steel section windows Partly open-able and partly fixed windows

The specification for this item is same as Item spec. no. 7.02.

Mode of Measurement: Same as per Item spec. no. 7.02.

7.04 Providing & fixing pressed steel section windows / Ventilators - fixed type

The specification for this item is same as Item spec. no. 7.02.however, without fittings , handles, stays etc.

Mode of Measurement: Same as per Item spec. no. 7.02.

7.05 Providing & fixing pressed steel section - louvered ventilators

Same as per Item spec. no. 7.02 however, fixed glass louvers of 4 mm or 5.5 mm thick float or frosted glass (4 mm thick for louvers up to 450 mm long and 5.5 mm for length of 451 mm or more) to be provided as per architectural drawing.

Mode of Measurement: Same as per Item spec. no. 7.02.

7.06 Providing & fixing MS Mosquito/ fly proof shutter

This shall be fabricated out of approved standard rolled sections (window sections) with 22 to 23 SWG galvanised wire net. The beading shall be of MS hollow pipe beading of 10 Sq.mm X 1.25 mm with screws. The shutter shall be provided with adequate number of hinges as per details / as directed.. Matching section shall be provided with an arrangement for fixing tower bolts and handles including providing and fixing aluminium oxidized/powder coated fittings as specified and as per architect's drawing. It shall be painted with one coat of primer and 2 or more coats of synthetic enamel paint approved make and first quality. The contractor should get the shop drawing approved .The fabrication shall be done through an approved manufacturer and approval of the Engineer be obtained in advance. General specification shall be as per Item spec. no. 7.02.

Mode of Measurement: The fly proof shutter out to out shall be measured in SqM without frame.

7.07 Providing & Fixing GI BRC fabric grill

This shall have a GI rectangular or square shape 75, 50, 25mm size as specified in the item specification.. The gauge of the wire shall be 8 to 10 SWG. The gap size shall be 75 x 25 mm in general unless specified otherwise. This shall be welded / bolted to the M S frame made of angle iron 40 x 40 x 6 and tee 40 x 40 x 6mm with a MS beading of 30x3 or 30x6 mm as per details. The fabricated grill shall be provided with a shop coat of zinc chromate primer and fixed in position by grouting the hold fasts in cement concrete blocks (sides , bottom / top as the case may be) or a pad plate be provided which shall fixed with expansion bolts as directed. Up on fixing and finishing the surrounding, it shall be painted 2 or more coats of synthetic enamel paint of approved quality and make over a coat of primer.

The MS sections used shall be paid under relevant items as specified in the item description. Grouting of the hold fasts in CC block of size 230x200 x150 or fixing with expansion bolts is included in the above item(s) and nothing extra shall be paid for.

Mode of Measurement: The area of BRC fabric in to in of the holding frame shall be measured in SqM.

7.08 Providing & Fixing Rolling shutters – Push and Pull type

The rolling shutters shall confirm to IS 6248 of reputed approved make and shall be of 18 gauge MS solid laths or grill with all the accessories such as top cover conform to the size indicated in drawings and shall be of quality specified in the item specification. The rolling slats shall be in one piece and be made of heavy gauge cold rolled steel strips. The thickness of the sheets from which the lathe sections have been rolled shall be not less than 0.9mm for the shutters up to 3.5 m width and 1.2 mm for shutters above 3.5 M width. Depth of the guide shall be 65 mm for rolling shutters of width 3.5 M and 75 mm for width 3.5 to 8 M. A cylindrical hood shall be of MS sheet not less than 0.90 mm thick with appropriate MS angle/ flat stiffeners and of an approved profile shall be provided on the top to enclose the shutter when it is open. The rolling shutters shall be provided with suitable locking arrangements from inside and outside and deep channel guides. In case galvanised rolling shutters are specified the rolling shutter shall be made of hot dip galvanised slats hood, deep channel guides all preferably in one piece. The channels, guides shall be fixed with holding down bolts with PCC 1:2:4 (1 cement, 2 sand, 4 coarse aggregate of nominal size 12mm and down).

In case of hand operated pull and push type rolling shutters and very large gear operated rolling shutters of sizes larger than 10 SqM in area, they shall be provided with ball bearings for smooth and efficient operation. In case of large rolling shutters and depending upon local wind conditions, the rolling shutters should be provided with special locking type of wider channel guides or it shall be provided with central movable channel supports to take up the design wind pressures in the area. The rolling shutters shall be painted with a shop coat of primer and upon fixing and finishing be painted with two or more coats of enamel paint of approved make and quality followed by a coat of primer at site. **Contractor shall submit GA drawing as well as material details and get the make / arrangement approved prior to execution.**

Mode of Measurement: The measurement shall be in SqM .It shall be clear size of opening plus guide channels on both sides for width and 450mm on top for drum.

7.09 Providing & Fixing Mechanically operated rolling shutters (100000857)

General specification shall be same as in Item spec. no. 7.08. In case of large opening with mechanical device, for opening the shutter the roller shall be fitted with a pinion wheel at one end which in contact with a worm fitted to the bracket plate , caging and pulley with two ball bearing shall be provided with liver box, pair of handles. The arrangement shall be got approved from the Engineer.

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Mode of Measurement: Same as per Item spec. no. 7.08.

7.10 [AX ITEM NO. 100000858]
Providing & Fixing partly grilled Rolling shutters

Rolling grills are similar in design, construction and operation to rolling shutters and all provision of Item spec. no. 7.08 and shall be applicable to rolling grill and shall confirm to IS:6248. Grill portion shall be fabricated with 8 mm diameter round bars. Straight bars and bent bars bent to the required profile are placed alternatively and held in position with 20 mm wide and 5 mm thick MS flat links. Straight bars shall space as per requirement 100 to 150 mm as per approved drawing. All other arrangement shall be same as per Item spec. no. 7.08.

Mode of Measurement: Same as per Item spec. no. 7.08.

7.11. Providing & Fixing partly grilled and partly with solid lathe Rolling shutters with mechanical device.(100000859)

The general specifications shall be same as per Item spec. no. 7.08, 7.09 and 7.10

Mode of Measurement: Same as per Item spec. no. 7.08.

7.12 Providing & Fixing in position grill, railing, steel ladder etc. (100000860)

This work shall be carried out as per the detailed drawing of the Architect. The MS sections shall be of approved quality. The welding shall be perfect and the junctions shall be ground properly. The frames shall be provided with holdfasts and the same shall be grouted with CC blocks of 1:2:4 in brickwork Or fixed with anchor bolt in RCC. It shall be painted with one coat of primer and 2 or more coats of synthetic enamel paint of approved make and first quality over a shop coat of primer.

No wastage or rolling margin for over weight of steel members/sections shall be payable whereas for under weight it should be paid at actual if allowed to use.

Mode of Measurement: The dimensions of the members shall be measured in unit lengths/area (for plates) and the same shall be converted in to weights as per the standard steel table. The payment shall be made based on the weight of the item in kg. Nothing extra shall be paid for rolling margin.

7.13 [AX ITEM NO. 100000861]
Providing & Fixing MS inserts in RCC and Brick work

MS inserts shall be using MS rolled sections like Channels, angles, "T", "I" sections, plates, flats etc. of approved make with necessary lugs/ bolts as per drawings and details. Inserts, bolts etc. shall be provided in masonry and concrete works as indicated on the drawing. It is imperative that all inserts, bolts fixtures and fittings shall be provided in their position very accurately. Such inserts and bolts are to be fixed with necessary templates. If due to negligence on the part of the contractor, the inserts, bolts fixtures, and fittings etc, are out of alignment the contractor shall make arrangements to have the inserts and bolts removed and refitted in their proper position as directed by the engineer, at no extra cost. The inserts shall be painted with shop coat of primer followed by one coat of primer and two or more coats of synthetic enamel paint of approved make and quality on completion.

Additional MS members used in the items like chain link fencing etc. other such items beyond the requirements detailed in the relevant item shall also be paid under this item.

Mode of Measurement: Same as per Item spec. no. 7.12.

7.14 Providing & Fixing MS gate (100000862)

It shall be as per the drawing using standard rolled/ hollow sections, standard cold rolled MS sheets. The welding/ riveting shall be perfect and the junctions shall be ground properly. The welding joints shall be made proper including preparation of edges, welding grinding etc. The grid out of MS square sections/ flats shall be fabricated by cutting, splicing or neatly riveting as per architect's details. The rates shall be inclusive of providing MS square sections with necessary turning for pivots/ hinges, guide channel/ rail track etc as per architects drawing. The gate shall be provided with arrangements for closing; hinges, locking arrangement, stays and it shall be painted with shop coat of primer followed and two or more coats of synthetic enamel paint of approved make and quality over a coat of primer after erection and completion of finishing works.

Nuts, bolts, washers required for fastening the hinges (permanent fasteners) shall be measured in Kg with hinge/ holdfasts and shall be paid as per quoted unit rate of the Item spec. no. 7.14.

Mode of Measurement: Same as per Item spec. no. 7.12

7.15 Providing & Fixing MS pipe railing (100000863)

It shall be done with the specified class of MS pipe as per the item in the Schedule of Quantities. The design shall be as per the drawings/ instructions. All necessary specials, bends, elbows, tees and holdfasts or clamps shall be provided. If the pipe railing is to be fixed on ground or brick work, it shall be done by embedding the holdfasts, as directed by the Engineer, in concrete blocks PCC 1:2:4 (1cement, 2 sand, 4 graded coarse aggregate of size 12 mm and down). If it is to be fixed to a RCC member, the pipe shall be welded to the steel plate by embedding it in the RCC member. The fabricated railing shall be painted with a shop coat of primer and 2 or more coats of enamel paint of approved make and quality over a coat of primer.

Mode of Measurement: All the members of the railing shall be measured in unit lengths/area and the same shall be converted in to weight using standard steel tables as stated in Item spec. no. 7.12. Concrete for grouting shall be paid under relevant item. Nothing extra shall be paid for rolling margin. **It shall be paid in kg.**

7.16 Providing & fixing MS door frame (100000864)

It shall be fabricated from standard MS rolled sections like flats, angle T etc. as per the details and drawings. All the members shall be free from

rust, flakes, cracks and other fabrication defects. All holes for hinges, bolts, locking plates etc. shall be provided as per drawings/ instructed. The welding shall be smooth. The frame shall be erected and fixed with MS holdfasts of specified size and grouted with cement concrete 1:2:4 (1 cement, 2 sand, 4 graded coarse aggregate of nominal size 12mm and down) The frame shall be painted with a shop coat of primer before erection and 2 or more coats of synthetic enamel paint of approved make and quality over a coat of primer after erection.

Mode of Measurement: Same as per Item spec. no. 7.12.

7.17 Providing & Fixing MS sheet door

The frame shall be of MS as specified. The door shall be as per the Architects design. The specified gauge MS sheet door shall be welded to the shutter frame work. It should have 3 to 6 hinges as specified depending on the shutter size. It shall have fittings as specified in the item/ Architect's drawings. The door shall be applied with shop coat of primer and 2 or more coats of synthetic enamel paint of approved make and quality as specified over a coat of primer.

Mode of Measurement: Same as per Item spec. no. 7.12.

7.18 Providing & Fixing GI barbed wire fencing

This fencing shall be either made with RCC posts and struts or with MS posts and struts. RCC posts and struts shall be of size and length as specified in the item description in the Schedule of Quantities. It shall be free from cracks, twists and honeycombing.

MS posts and struts shall be of size and section as specified in the item description. One end of the angle shall be forked to have grip in the concrete and the other side shall have holes to fix the fencing wire. The post shall be applied with a coat of primer and 2 coats of first quality synthetic enamel paint.

GI wire

It shall be 12 to 14 gauges with 4 points barb with two wires twisted together or as specified in the item description. It shall be circular in section, free from scale and other defects and uniformly galvanised. The type, length and standard weight of the GI barbed wire shall be as specified below:-

Nominal dia. of wire Line wire	Point wire	Nominal distance between two bars	Length in M/100Kg		
			Nominal	Min.	Max.
2.5	2.24	75	1000	934	1066
2.5	2.24	150	1134	1066	1200
2.24	2.24	75	1576	1490	1668
2.24	2.24	150	1890	1778	2000

The GI barbed wire shall be well stretched in number of rows as specified with two diagonals. The spacing shall be at least 15cm from the ground and the rest shall be equidistant. The posts and struts shall be embedded in PCC 1:2:4 or as specified. It shall be fixed in line, level and plumb. The grouting concrete shall be cured for 7 days. The barbed wire shall be held to posts by means of GI staples, U clips or GI binding wire as specified. Turn buckles and straining bolts shall be used at the ends. Two struts shall be provided at the corners and at every 25M. The length of the strut shall be 1.5 times the length of the post. Rate to include all material as MS post, cement concrete, painting etc.

Mode of Measurement: This shall be measured in Running Meter.

7.19 Providing & Fixing GI barbed wire fencing – 1050mm high

General specification are same as in Item spec. no.7.18 but fencing to be fixed over compound wall of height specified in schedule of quantities including flaring the end to be grouted, painting the same with bitumen, grouting the post in cement concrete 1:2:4 (1 part cement: 2 parts coarse sand: 4 parts aggregates) block of specified size, 600 mm length of the angle straight and balance 450 mm will be bent, duly drilled with holes for running/ securing barbed wire in position, placed at 2, 5 M, centre to centre, every 10th post and corner posts or at the change in level the vertical post to be strutted with MS angle of size 50x50x6 mm from both sides and the end post from one side using MS angle 50x50x6 mm grouted in concrete. This includes centring/ shuttering for the CC blocks as may be required, providing and fixing GI barbed wires of 12 to 14 gauge, 4 points wire with 7 horizontals and 4 diagonals fixing with approved U clips, painting the angles posts and struts with two or more coats of approved quality and make Aluminium/ synthetic enamel paint over a coat of primer etc all complete as per drawing/ as directed.

Mode of Measurement: This shall be measured in Running Meter.

7.20 Providing & Fixing of Steel Windows/Ventilators fixed type

Steel windows/ventilators of standard rolled sections (fabricated as per architects design) joints mitred and electrically flash welded (manufactured to relevant IS standard specifications) with non-oxidized lugs (15 x 3mm and not less than 100 length) embedded in cement concrete block 150 x 100 x 100mm of 1:2:4 (1 cement: 2 coarse sand: 4 hard stone ballast 20mm and down grade) cement concrete including glazing of approved quality float glass of standard thickness as specified in the item shall be fixed with aluminium / MS beading of approved quality and size.

The windows shall be fabricated through reputed manufacturer upon with the approval of drawing and the agency by the Engineer. Standard rolled section like T2,T3,T6, FF2, F3, F5,F4B,F7D, FX6,FZ7,FX8,FZ5,K11B,K12B of approved manufacturer shall be used as per the details. Stay, handle, locking arrangement, tower bolt etc shall be provided as per requirement.
Providing and applying shop coat of zinc chromate yellow primer coating for rust proof and 2 or more coats of approved shade and quality enamel paint after installation over a coat of primer.

i) The section should confirm IS 4351-1976.
ii) All frames supplied shall be phosphate on all surfaces and finished with zinc chromate yellow primer coating for rust proof.
iii) All casements shall be measured at site and approved prior to fabrication.
iv) Shop drawing to be made and approval to be obtained from Client/Architect prior to fabrication..
v) Hardware fittings shall be provided at appropriate locations in the frames. The shop drawing should indicate the type of provision to be made for hardware fittings.
vi) A sample of door/ window shall be submitted and got approved from the Engineer.

Mode of Measurement: This shall be measured in SqM out to out.

7.21 Providing and fixing MS Windows / ventilators – Side / top hung openable

General specification is as per Item spec. no. 7.20

Mode of Measurement: Same as per Item spec. no. 7.20

7.22 Providing and fixing MS Windows / ventilators – Partly fixed partly openable

General specification is as per Item spec. no. 7.20

Mode of Measurement : Same as per Item spec. no. 7.20

7.23 Providing & fixing MS Window/ventilator–Centre hung type.

General specification are as per Item spec. no. 7.20.Central hung window / ventilators shall hung on pair of brass cup pivots, riveted to inner and outer frames to permit the shutter to swing to an angle of approx 85Degree.The opening portion of the window / ventilator shall be so balanced that it remains open at any desired angle under normal weather conditions. Necessary handle, stay and locking arrangement to be provided.

Mode of Measurement: Same as per Item spec. no. 7.20

7.24 Providing and Fixing Louvered Window / Ventilators

These will be fabricated following general specification of Item spec. no. 7.20 It shall be fitted with machine made louvers made out of standard steel sheets to suit the width and thickness of wired glass of 5.5mm thickness. The machine louvers to be fixed with the frame by riveting as per approved drawing.

Mode of Measurement: Same as per Item spec. no. 7.20

7.25 Providing and fixing 'Z' type ventilator

General specification shall be as per Item spec. no. 7.20. Ventilators to be made out of standard MS sections as per architects design. Top and bottom fixed glazing shall be of 4 mm float glass as per Item spec. no. 4.01. In between 8 gauge BRC mesh of 25x25 mm shall be welded the horizontal plane with 10 x 3 mm MS flat or of the suitable size beading with stiffeners as required..

Mode of Measurement: This shall be measured in SqM in the elevation out to out of frame.

7.26 Providing and fixing Fibre glass sky light dome.

The fibre glass dome shall be made out of specified thickness of fibre glass of any shape and colour as per architect's detail. The shop drawing shall be submitted and got approved as well as sample shall be got approved from the Engineer. A rim of adequate width and thickness and shape shall be provided in the design for fixing the dome on the bearing of element where it will be fixed with GI bolts, neoprene washers and nuts. The bolt head/nuts to be coated with epoxy compound to safeguard it against rusting. The rim shall overlap the width of wall or parapet to ensure and check ingress of rain water. If need be MS bearing plate or frame made out of standard MS section as per approved details to be fixed. approved drawing. The reinforcing MS members shall be coated with fibreglass and base plate etc. painted with one coat of primer and two or more coats of enamel paint of approved make and quality.

MS sections / base plates used shall be paid under relevant tender item.

Mode of Measurement: The surface area shall be measured in SqM. MS standard section used for structure shall be paid under the item 8.01.

7.27 Providing and fixing Poly carbonate sky light.

Plain or smoke brown plain polycarbonate sheet or multi-walled sheets of approved make, quality, thickness and shade as specified in schedule of quantities fixed with all accessories supported over anodised aluminium, MS powder coated or galvanized members with EPDM or approved gaskets, fixing hooks, cadmium coated self tapping screws, EPDM or approved washer nuts & bolts, clips including apply two or more coats of enamel paint of approved make and quality paint over a coat of red oxide over MS material etc. complete as directed. The entire job is to be executed using approved material as per architect's drawing including providing and filling gaps silicon sealant wherever necessary to make the surface water tight and leak proof. Nothing extra for providing silicon sealant shall be paid.

Mode of Measurement: This shall be measured in SqM. MS standard section used for structure shall be paid under the item 8.01.

7.28 Providing and fixing GI pipe railing.(100000879)

GI pipe of specified class and diameter of 800 to 1000 mm height above finish floor level shall be fixed @ 1000 mm c/c as vertical and top and bottom rail of GI "A" class 32 mm dia. NB or to be provided as per Architectural drawing including welding, specials, bends and 2 coats of enamel paint over a coat of red oxide primer. GI pipe railing shall be fabricated as per the drawing including cutting/fitting, grinding / mitring to match curvature, preparation of surface for close jointing welding, bending etc. The supports, horizontal members shall be in single piece.

MS rolled sections used for base plate / or any other member in the railing work shall be paid under relevant Item spec. no. 7.12.

Mode of measurement: Length of the pipe(s) shall be measured to correct cm and multiplied by standard coefficient or actual unit weight which ever is lower to arrive quantity in Kg. It shall be paid in kg.

7.29 Providing and fixing grill made out of MS hollow section. (100000877)

General specification shall be same as per Item spec. no. 7.12 but using MS hollow round, square or rectangular sections as specified / as per drawing. MS standard sections like plates, angles, flats, channels etc used in the fabrication shall be measured separately under relevant Item spec. no.7.12.The grill / ladder shall be given a shop coat of anti rust zinc chromate primer and two or more coats of enamel paint of approved make, quality and shade over a coat of primer after installation.

Mode of Measurement:

The individual members shall be measured and converted in weight as per unit weights as per standard co-efficient or actual unit weight which ever is lower to arrive quantity in Kg.

It shall be paid in kg.

7.30 Providing, fabricating and fixing in position SS railing. (100000883)

Providing , fabricating and fixing in position of S.S 304 Grade hand rail 900mm height and as per drawing details including cutting welding, grinding to smooth surface etc. complete as per direction of engineer in charge.

Mode of Measurement: All the pipe members of the railing shall be measured in unit lengths/area and the same shall be converted in to weight using standard steel tables and paid for in Kilogram. Nothing extra shall be paid for wastages / rolling margins in case of overweight. However in case of underweight, actuals shall be paid for.

7.13 [AX ITEM NO. 100022285]
Providing & Fixing SS inserts in RCC and Brick work

MS inserts shall be using SS-304 rolled sections like Channels, angles, "T", "I" sections, plates, flats, rungs, inserts, puddle pipes, plates etc etc. of approved make with necessary lugs/ bolts as per drawings and details. Inserts, bolts etc. shall be provided in masonry and concrete works as indicated on the drawing. It is imperative that all inserts, bolts fixtures and fittings shall be provided in their position very accurately. Such inserts and bolts are to be fixed with necessary templates. If due to negligence on the part of the contractor, the inserts, bolts fixtures, and fittings etc, are out of alignment the contractor shall make arrangements to have the inserts and bolts removed and refitted in their proper position as directed by the engineer, at no extra cost. The inserts shall be painted with shop coat of primer followed by one coat of primer and two or more coats of synthetic enamel paint of approved make and quality on completion.

Additional SS members used in the respective SOQ items, beyond the requirements as detailed in the relevant item shall also be paid under this item.

Mode of Measurement: Same as per Item spec. no. 7.12.

FOR THE SPECIFICATIONS AND MODE OF MEASUREMENT OF ALL OTHER ITEMS, PLEASE REFER THE SCHEDULE OF QUANTITY SINCE THEY ARE SELF EXPLAINATORY.

TECHNICAL SPECIFICATION

8.0 ROOFING

8.01 Providing, fabricating and erecting MS structural steel work for trusses, purlins, girders, columns, rafters, runners, struts, wind ties, bracings, sag rods, etc.(100000893)

All structural steel materials such as angles, RS joists, flats, tees, plates, channels, etc. shall conform to the latest edition of IS 226. All structural steel shall be free from twists/bents before fabrication and such lengths should be discarded. Cutting of members shall be done by shearing, cropping, sawing or gas cutting. Contact surfaces of plates and butt joints shall be accurately machined over the whole area so that the parts connected shall butt over the entire surface of contact. Welding of pieces shall be done with the approval of the Engineer.

The components parts shall be assembled in such a manner that they are not damaged in any way and specific cambers as shown in the drawing or as directed by the engineer, shall be provided.

For bolted connection, where ever necessary washers shall be tapered or otherwise suitably shaped to give satisfactory bearing. The threaded portion of the bolt shall project beyond the nut by at least 1.5 threads.

Welding shall be done in accordance with the latest edition of IS 813 and 814, Code of Practice for use of Electric Arc welding for general construction in mild steel. In welding it must be ensured that the base metal is in fused state when filled metal makes contact with it, filler metal does not overflow upon and unused base metal, base metal is not cut along the weld edges, flowing metal floats the slag, oxide and gas bubbles at the surface behind advance pole. For this purpose current shall be adjusted or the electrode size is changed. Welding shall be free from cracks, discontinuity, under or over size welding thickness.

Surface to be welded shall be free from loose mill scale, rut, grease, paint and any other foreign material. As far as possible avoid the welding at heights and at difficult positions. Generally fillet welding is preferred. The parts to be welded are brought in as close contact as practicable and rigidly clamped together.

Before erection steel work shall be thoroughly cleaned of rust, loose scale, dust, welding slag and shall be given one coat of red oxide primer of approved make and one coat of first quality synthetic enamel paint of

approved make as specified in the item before erection and final coat of painting after the erection as directed.

Steel members shall be hoisted and put in position carefully without any damage to the member and to the building and labour. The trusses shall be lifted at such points that they do not buckle or deform or be unduly stressed. The end of the truss which faces the prevailing wind shall be fixed and the other end may be kept free to move. The steel work shall be securely fastened wherever necessary, temporarily braced, to provide for all loads to be carried by the member during erection including the load due to the erection equipment and its operation. No permanent bolting or welding is done until proper alignment has been obtained. The holes for the rivets shall be determined with the help of templates and drilled. Erection clearance of the cleared ends shall not be more than 1.5mm and without cleating end clearance shall not be more than 3mm. Grouting or embedding of structural steel members done after the approval of the alignment, level and position of the members by the engineer. In case, bolts receiving the base plate of the truss is not grouted using template and pockets left, in such case the bolts shall be grouted with non shrink ready mix grout.

Important points:

Before the actual execution of the job, the contractor shall prepare fabrication drawings for all structural steel work from the structural drawings supplied to him and determine the exact cutting lengths of the members, sizes of gusset plates, welding lengths by marking out on a level platform to full scale.

Welding plant, electrodes and other equipment, scaffolding, labour shall be arranged by the contractor at his cost. Erection equipment of required capacity, sufficient number of spare parts and staff should be maintained by the contractor at site at his cost.

Mode of Measurement: All structural steel members shall be measured in length, area of MS plates shall be measured in SqM and converted into weights as per IS tables for steel and paid for in Kg. All rivets, bolts shall be measured in Kg and paid for in same rate as structural steel. No deduction shall be made for rivet holes and bolts. Nothing extra shall be paid for wastages and rolling margin in case of over weight. However in case of underweight actual shall be paid for.

8.02 Providing, fabricating and erecting MS structural steel work for trusses, purlins, girders, columns, rafters, struts, wind ties, bracings, etc. with MS B class pipes/ Tubular section

The general specifications are same as given in item 8.01 but with MS B class pipes, medium duty square or rectangular sections of approved make as per item description given in the schedule of quantities. Part of work involving standard rolled sections shall be measured and paid under Item spec. no. 8.01.

Mode of Measurement: Same as per Item spec. no. 8.01

8.03 Providing, cutting, fabricating and fixing MS chequered plates. (100000895)

The chequered plates shall be cut to the required shape by shearing or with arc gas cutting machine. The cut edges shall be ground and finished properly. The treads of the stair case or any other element shall be bent to a profile so that edge do not hit while traversing. The plates shall be given a shop/site coat of primer and two or more coats of approved first quality synthetic enamel paint over a coat of primer after installation.

Handles / lugs etc shall be paid in relevant item of MS inserts.

Mode of Measurement: The area of the plates as laid shall be measured and it shall be converted into weight using standard IS table for steel and paid for in Kg. Nothing extra shall be paid for wastages / rolling margin in case of over weight. However in case of underweight actual shall be paid for.

8.04 Providing and fixing MS holding down bolts. .(100000896)

The MS holding down bolts of specified diameter, length and shape shall be provided as per the drawings in line and level. These shall be fixed to RCC work or brickwork by grouting it with concrete. The bolt shall be provided with nuts and washers. The grease shall be applied to the threaded portion. If the bolts need some adjustment, it shall be provided with a wooden piece 75 x 75mm or 50mm diameter. GI pipe around bolt shall be provided at the time of concreting and shall be removed after initial set. If required template should be provided.

Mode of Measurement:

The length of the bolt shall be measured and according to the diameter. of the bolt, the length shall be converted into weight using standard steel tables and paid for in kg.

8.05 Providing and fixing AC corrugated sheets

AC sheet and accessories shall be free from cracks, chipped edges and corners. The fixing shall be done as per the latest edition of IS 459 at all heights including storage, shifting, handling, scaffolding/staging as required. The spacing of the purlins shall not be more than 1.4m for 6mm sheets. The light shall not be visible from the joints of the AC sheets. The AC sheets to be kept on ceiling/cladding shall be placed with smooth side upward and the AC sheets to be put in cladding shall be placed with smooth side out side. The AC sheets shall have at sides a lap of half corrugation and an end lap of 150mm minimum. The free over hangs at ends shall not be more than 300mm. It shall include all tools, plants, ladder, scaffolding, and triangular pieces in cladding, at gable ends, at north light, side laps or end laps. The work shall be carried out at all heights without any extra cost.

Hole for 8 mm diameter L or **J** bolts shall be drilled and not to be punched in the ridge of the corrugation. The diameter of the hole shall not be more than the diameter of the bolt by 1.5mm. The bolts shall be galvanised **J** or L hooks with nuts and 2 Nos. of bitumen washers. Sheet should be laid leak proof. All AC sheet accessories shall be painted or white washed as specified in the item or directed by the engineer and shall be paid under relevant item. The rate to be inclusive of overlaps wastage etc.

Mode of Measurement: The AC sheet roofing shall be measured in SqM without overlaps. Overlap, corrugation, wastage are inclusive in this item.

8.06 Providing and fixing AC accessories

The general specification are same as per Item spec. no. 8.05 but for providing and fixing north light curve, AC ridges, curves, corner pieces, bargeboards, eaves board, etc all required accessories. The rate to be inclusive of overlaps wastage etc

Mode of Measurement: These accessories shall be measured in Running Meter. Overlap, corrugation, wastage are inclusive in this item.

8.07 Providing fabricating and fixing aluminium flashing

The aluminium flashing shall be by using aluminium sheet of thickness specified in the item and shall be fabricated as per the profile confirming to the drawing / instructions (suiting to the requirement) As far as possible, the flashing without joint shall be provided however joints if any inevitable, shall be specially formed to ensure water tightness and making it leak proof. This shall be fixed between the RCC facia and the AC sheets with bitumenistic compound / bitumen to prevent leakage including embedding if required and sealing it appropriately with bitumenistic compound. The rate to be inclusive of overlaps wastage etc.

Mode of Measurement: This shall be measured in SqM. Overlap, corrugation, wastage are inclusive in this item.

8.08 Providing and fixing FRP sheet

Providing and fixing FRP sheet of specified thickness of approved make, colour and quality in matching corrugation and of transparency as per requirement for sky light or for roofing, including special washers, anchors etc A sample of the sheet should be got approved. The rate to be inclusive of overlaps wastage etc.

Mode of Measurement: This shall be measured in SqM. Overlap, corrugation, wastage are inclusive in this item.

8.09 [AX ITEM NO. 100022069]
Providing and fixing GALVALUME colour coated sheet.

Providing & fixing **GALVALUME colour coated cold rolled sheets** made out of 0.5mm base metal thickness and Total Coated Thickness as 0.55mm, yield and tensile strength minimum 550 Mpa cold rolled sheet with hot dip metallic coating of aluminium zinc alloy 150 Gms/SqM, density minimum 4.8 Kg/SqM with minimum 20 microns super durable polyester paint or silicon modified polyester on top and 5 microns back-up epoxy coating at the bottom having 1015/1080mm cover width with 28.5 to 32 mm high crest at 195/200mm C/C in length as approved by the architect and with necessary suitable imported galvanised carbon steel 40micron zinc coated/minimum 20micron Zinc-Tin alloy coated Hexagonal head, self drilling & self tapping screws of ITW Buildiex (R) AS 3566 Class 3/ HILTI/BOSCH having drilling capacity minimum 6-8mm and in required diameter and length fixed using torque drill machine all complete with EPDM sealing washers with sealant.

Rate should include cost of plastic caps of approved colour of UV resistance and button bolts etc. for the fasteners.

Rate to include also fixing in roofing, cladding and all accessories and utilities like ridge, corner piece, aprons, barge boards, gutters, flashings, end pieces, etc., all accessories etc. complete as directed by the engineer.

The rates shall include all materials, tool / tackles, labour, scaffolding including handling and storage of the materials etc complete for all heights.

The rate to be inclusive of overlaps wastage etc.

Mode of Measurement: This shall be measured in SqM. Overlap, corrugation, wastage are inclusive in this item.

8.10 Providing and fixing plain GALVALUME sheet for cladding / ceiling

The general specifications are same as per Item spec. no. 8.09. The rate to be inclusive of overlaps wastage etc.

Mode of Measurement: This shall be measured in SqM. **Overlap, corrugation, wastage are inclusive in this item.**

8.11 Supplying and fixing polycarbonate sheet (100000903)

Supplying and fixing polycarbonate sheet of specified thickness and colour of approved make plain or in curved profile roof sheeting with anodised aluminium beading over structural steel member (structural steel members shall be paid under relevant tender Item spec. no. 8.01 or 8.02) fixed with GI bolts or EPDM coated self tapping screws with EPDM sealing washer with filling the gaps with silicon sealant. Item rates shall include cost of plastic caps of approved colour of U V resistance, sealant wherever required etc complete as per architects drawing and as approved The work shall be carried out for all heights with scaffolding, labour tools etc. without any extra cost. **The rate to be inclusive of overlaps wastage etc**.

Mode of Measurement: This shall be measured in SqM. Overlap, corrugation, wastage are inclusive in this item.

FOR THE SPECIFICATIONS AND MODE OF MEASUREMENT OF ALL OTHER ITEMS, PLEASE REFER THE SCHEDULE OF QUANTITY SINCE THEY ARE SELF EXPLAINATORY.

TECHNICAL SPECIFICATION

SECTION 9.00 MISCELLANEOUS WORKS

9.01 Providing and fixing night latch of approved make such as Godrej or equivalent. (100000921)

The night latch shall be approved make, quality and finish with locking horn and set of three keys (original supplied with lock) to fixed with brass screws of matching colour.

The rate shall be quoted for providing night latch of approved quality and make fixing the same in the door shutters / frame and finishing and polishing the surrounding.

Mode of Measurement: This shall be measured in Number.

9.02 Providing & fixing approved make 6 lever Mortise lock with pair of brass oxidized / chromium plated handles. (100000922)

The lock shall be of approved make and finish with locking horn and set of three keys (original supplied with lock).

The rate quoted shall be for providing mortise lock with handles in doors and finishing as per item schedule.

Mode of Measurement: This shall be measured in Number.

9.03 Providing & fixing tubular lock.

The lock shall be of brass chromium plated or oxidized of approved make and model with locking horn to be fixed in doors and provided with a set three keys (original supplied with lock).

Mode of Measurement: This shall be measured in Number.

9.04 Providing and fixing hydraulic door closer of approved size and make. (100000924)

The hydraulic door closer shall be of approved shape, size and colour suiting to the requirement. Shall be fixed well secured on door shutter and frame with brass screws of matching colour including filling and maintaining oil till the operations are set including fine adjustment. This shall be fixed at places as directed by the Engineer.

Mode of Measurement This shall be measured in Number.

9.05 Providing and fixing PVC hand rail 50 mm wide of approved colour.

The PVC hand rail shall be in one length and to be fixed over base flat securing it tightly including bending in curvature welding if needed and finishing smooth. The ends to be properly terminated so that it does not tend to come out etc complete as directed.

Mode of Measurement: This shall be measured in Running Meter.

9.06 Providing & Filling the electrical jharis 250mm to 150mm wide (100000926) and depth as specified in schedule of quantities with cement mortar 1:3 and finishing the same to match with the surrounding, curing for 7 days, finishing with painting/ white wash or any other finish, etc. complete as directed. The work is to be coordinated with internal electrification contractor and ensure that the conduits are secured properly. The top finish should be matched and should not be visible separately after finishing.

Mode of Measurement This shall be measured in Running Meter.

9.07 [AX ITEM NO. 100000927]

Dismantling brick masonry walls and partitions, plastered or un-plastered as per instructions including finishing the broken surface to match with the surrounding, removing the debris as directed within site, cutting the reinforcements if any etc. complete as directed. The rates include necessary cordoning the area including erecting appropriate screen if required and necessary scaffolding etc. The dismantled debris is required to be collected and disposed off within the site including all lead and lifts. The dismantling for the opening shall be carried precisely as directed by the Engineer layer by layer.

Mode of Measurement: This shall be measured in CuM.

9.08 [AX ITEM NO. 100000928]

Dismantling the RCC beams, slabs, lintels, columns, pardi walls, platform etc. including finishing the broken surface to match with the surrounding, removing the debris within site, including cutting the reinforcement if any etc. complete as directed. The rates include necessary cordoning the area including erecting appropriate screen if required and necessary scaffolding etc. The dismantled debris to be collected and disposed off within the site including all lead and lifts with the progress of dismantling work. The dismantling for the opening shall be carried precisely as directed by the Engineer. The reinforcement steel

recovered from dismantled concrete shall be stacked separately and shall be ultimately handed over to stores/yard of the Project Authority /NDDB at site.

Mode of Measurement This shall be measured in CuM.

9.09 Filling the jharis 25mm to 150 mm wide and 50 to 100 mm deep with PCC (1:2:4) (100000929) and Finishing the top with plaster of appropriate grade to match with surroundings including painting as stated in Item spec. no. 9.06 etc. complete.

Mode of Measurement This shall be measured in Running Meter.

9.10 Making holes in all size & shape in RCC or Brick works and filling the same with PCC(1:2:4) and finishing the same as per surrounding including scaffolding, cutting the reinforcement bars, curing etc. complete. Actual area shall be measured for payment.

Mode of Measurement This shall be measured in Cum.

9.11 Providing and fixing approved quality and make — Hydraulic floor door spring.

This shall be fixed in floor. The floor shall be cut properly for the placing of the Hydraulic floor spring if necessary. The flooring near the spring location shall be redone matching the existing flooring. Nothing extra shall be paid for this.

Mode of Measurement: This shall be measured in Number.

9.12 Providing and fixing 150mm wide PVC water stop (100022282) in proper alignment at construction joint, joining as per Suppliers recommendation complete as per direction of Engineer. Rate to be inclusive of wastage and overlap.

Mode of Measurement This shall be measured in Running Meter.

9.13 Providing and fixing in RCC side wall or bottom or cover slab of slump 75mm dia GI B class pipes up to 600 mm long with puddle flange and outside flange or threaded end for connecting the inlet, outlet, washout and overflow pipes.

The specification of the GI pipe shall be as per the specification given in Section 11.00 of the this Technical specifications. It shall be

placed during concreting the walls of the sump/over head water tank etc. The rate quoted shall be for the providing and placing of the pipe with flange or threaded in line and level.

Mode of Measurement: This shall measure in Number.

9.14 Providing and fixing in RCC side wall or bottom or cover slab of sump 50mm dia. GI B class pipes up to 600 mm long as per Item spec. no. 9.13.

Mode of measurement: This shall be measured in Number

9.15 Providing and fixing in RCC side wall or bottom or cover slab of sump 38 or 40mm dia. GI B class pipes up to 600 mm long as per item spec. no. 9.13.

Mode of measurement: This shall be measured in Number.

9.16 Providing and fixing in RCC side wall or bottom or cover slab of sump 25mm dia. GI B class pipes up to 600mm long as per item spec. no. 9.13.

Mode of measurement: This shall be measured in Number.

9.17 Providing and fixing removable CI gratings of approved quality for rain water pipes including painting the same with two coats of approved enamel paint for 100mm dia

Mode of Measurement: This shall be measured in Number

9.18 Providing and fixing removable CI gratings of approved quality for rain water pipes including painting the same with two coats of approved enamel paint for 150mm dia. (100000938)

Mode of Measurement: This shall be measured in Number.

9.19 Providing and fixing special CI drain in flooring

Providing and fixing of the special floor trap (CI or SS traps) and fixing in position as per drawing / details and as directed including providing and constructing 600 mm deep, 300 x 300 and 230 mm thick brick chamber in CM 1:6 with 75 mm thick PCC 1:4:8 PCC finishing the inside smooth with cement mortar 1:4 with neat cement punning, bottom to be finished with IPS 40 mm thick. The trap is required to be fixed at required level

and be connected with CI / SW pipe to drainage line. The trap if required to be fixed line and level over the chamber but in PCC 1:4:8 (in lieu of internal finishing) as per the details. The out let of the trap shall be connected to CI / SW pipe up to required level before it is connected to main line through Tee etc complete as directed. CI / SW pipe line shall be measured and paid under relevant tender item.

Mode of Measurement: This shall be measured in Number.

9.20 Providing and fixing Air vent Cowl

The Air vent cowl shall be of CI or PVC as specified in the item description. it shall be of approved quality and size matching to the air vent pipe including sealing the joint.

Mode of Measurement: This shall be measured in Number.

9.21 Dismantling kota / mandhana stone / mosaic tiles ceramic / glazed tile in flooring, dado or skirting

Work shall be carried out as per instructions of the engineer; including dismantling of under laid cement mortar and finishing the broken/ dismantled surface of match with the surroundings. Disposal of debris/ muck within the site at approved location, stacking the recovered stone pieces, stacking at site and handing over the useable ones to stores / yard etc. complete as directed.

Rate includes all labour, material, etc. complete.

Mode of Measurement: This shall be measured in SqM of area dismantled.

9.22 Dismantling plain cement concrete (PCC) of any grade (100000942) in flooring/pavement/wall foundation, etc. as per instruction of the site engineer and disposal of debris/muck within the site at approved location, etc. complete.

Mode of Measurement: This shall be measured in CuM of PCC dismantled.

9.23 Removing existing MS/Wooden doors/ windows/ ventilators/ grills, Rolling shutter etc. carefully by removing screws / dismantling hold fasts as directed, stacking the same at site and handing over to project authority/NDDB to Stores / yard. The broken surface shall be finished to

match with surroundings. The rate includes all labour, material, etc, complete.

Mode of Measurement: This shall be measured in SqM of the clear opening from the door/ window/ ventilator and grill rolling shutter is removed.

9.24 Dismantling CI tile flooring including the under laid cement mortar. Disposing debris/muck/broken CI tiles as directed within the site at the approved location. The full CI tiles shall be handed over to the project authority to stores / yard.

Mode of Measurement: This shall be measured in SqM of CI tile flooring dismantled.

9.25 Providing and fixing aluminium sheet 20 gauge, 30cm wide on the expansion joint. One end of the sheet to be fixed with SS screw and other end to be kept partially free by making an elliptical slot and fixing with the screw so as to allow for the expansion of the building and consequent movement of the aluminium sheet. Rate includes all labour material, etc. complete.

Rate to be inclusive of wastage and overlap.

Mode of Measurement: Measurement shall be taken for actual area of aluminium sheet laid and shall be paid in SqM.

9.26 Dismantling/scrapping and removing fully the plain/sand faced/grit cement plaster (100000946) from the brick/RCC works including necessary scaffolding at all height and levels and disposing the debris within the site at approved location, etc. complete. Rate includes all labour, materials, etc. complete.

Mode of Measurement: shall be taken of the actual area exposed after the cement plaster is fully removed.

9.27 Cutting RCC roads/floors/pavements with groove cutting machine to make grooves 6 –10mm wide and up to 25mm deep in true line and absolutely vertical. The grooves shall be cut within 7 to 10 days of laying using RCC wing sharp cutter using appropriate cutting wheel and skilled operator in the perfect line as per the layout of groove already approved by the site engineer. The joints should be properly marked while laying flooring and be cut absolutely matching the construction expansion joint.

Mode of Measurement This shall be measured in the Running Meter of the grooves cut.

9.28 Providing and filling approved make and grade (including gun grade) silicon sealant in construction / expansion joints of concrete floor or the gaps between windows/ door/ventilators with the walls including fixing masking tape backing with polysterene / thermocol or filling appropriate filler for larger gaps and finishing the surface smooth etc complete as directed. Payment will be made per cm width per cm depth of sealant filled or proportionate depending on the cross section of the groove filled, (Rates to be quoted for 10mm wide and 10 mm deep groove).

Mode of Measurement: This shall be measured in RM.

9.29 Providing and fixing gypsum board false ceiling (100000731)

Providing and fixing gypsum board false ceiling with necessary GI frame work/suspenders as per the specifications of India Gypsum Ltd. or approved equivalent in the profile as per architects drawing.
Suspenders (hangers) shall be of 4mm diameter GI rods to be fixed with GI fasteners, carriers and holding rails as per the specifications of the false ceiling manufacturer. The gypsum board to be joined and finished so as to have a flush look which includes filling and finishing the tapered and square edges of the board with jointing compound and applied with paper tape and a coat of primer suitable for gypsum board and providing and applying two coats of plastic emulsion or synthetic enamel paint, etc. complete as directed.

Mode of Measurement: This shall be measured in SqM.

9.30 Taking the delivery of Insulated door (Cold Store / Deep Freeze doors) of maximum size 3m x2.5m, from the NDDB / Contractors site store and fixing the same in line and level, cutting the brickwork, RCC and fixing with holdfast in cc 1:2:4 blocks or to be grouted in RCC mullion including supporting to keep in exact position till the CC blocks / RCC mullion attains sufficient strength, finishing the surface smooth, curing etc. in line level and plumb , all complete as directed. The concrete blocks or RCC mullion shall be paid under relevant tender item. This work to be carried out in coordination with the Cold Stores / Deep Freeze contractor.

Mode of Measurement: This shall be measured in SqM.

FOR THE SPECIFICATIONS AND MODE OF MEASUREMENT OF ALL OTHER ITEMS, PLEASE REFER THE SCHEDULE OF QUANTITY SINCE THEY ARE SELF EXPLAINATORY.

TECHNICAL SPECIFICATION

13. ADDITIONAL NOTE TO TECHNICAL SPECIFICATION TO BE IMPLEMENTED/ ENSURED AT SITE

1. Documentation for ancillary consumable items used in the works

Formal records for the consumable materials used in execution of various item of works listed below should be maintained in "**Material Receipt Register" and Reconciliation statement** for all such materials should be prepared & submitted along with the contractor's work bill to ensure that actual consumption of materials is in line with the theoretical requirement/manufacturer's specifications:

i) Chemicals for Anti-termite treatment

ii) Admixtures (used in concrete mix)

iii) Water proofing chemicals/membranes/coatings

iv) Sealants/ Boards used for expansion/construction/contraction joints

v) Observation register for actual unit weight of reinforcement steel, structural steel, Aluminium sections, roofing sheets for which unit weights/ gauges were specified in SOQ/ approved manufacturer's specifications.

vi) All type of painting materials (external/internal/special) including primers

vii) Floor hardener/ special flooring joint materials

viii) All type of coatings (Epoxy, PU etc)

ix) All type of piping material (MS, SS,GI, PVC, uPVC, CPVC, HDPE etc)

x) All types of roof sheeting material

xi) Bitumen 80/100

Contractor to submit a copy of invoice for all the aforementioned consumable materials supplied to project site as directed by NDDB Engineer -in-charge.

2. In case of materials supplied of approved makes, contractor to submit manufacture's test certificates (MTC) for each lot of materials supply of material for physical verification (Batch number & Shelf life) by Engineer - in-charge before put to use .

3. All Flooring, Dado materials should be put in use only after physical verification by Engineer -in-charge as specified in Item specification and quality parameters.

4. In case of Cement & reinforcement steel, in addition to manufacturer's tests certificate periodical tests from the approved laboratories should also be carried out as specified in quality control section.

TECHNICAL SPECIFICATION

14. Quality Control Process

QUALITY CONTROL PROCESS TO BE FOLLOWED

Quality Control is an essential part of any construction process for ensuring Quality. All materials to be used, all methods adopted and all works performed are strictly to be in accordance with the requirements of the specifications and approved drawings. Quality Control measures leads to construction of improved quality, conformity and ensures utilization of better quality of materials.

The **main objective** of Quality Control (QC) is to obtain independent & objective assessment of the technical quality of all the civil, structural, electrical and all ancillary miscellaneous construction works at different stages of construction and to ensure that the buildings and structures are constructed as per desired standards and in accordance to the specifications.

The Construction contractor is responsible for implementing and supplementing a quality control procedure to ensure that all aspects of work meet the standards set forth in the specifications and is of acceptable quality. The Construction contractor is totally responsible for quality throughout and is to take all necessary measures to ensure quality by adopting correct construction practices to produce the end products of acceptable quality.

Ensuring execution of quality work of durability and uniform performance by the Contractor is the most important aspect of the Quality Control.

The basic concept of this process is that the construction Contractor constructs & performs testing as per the following format and requirement as minimum at his risk and cost to ensure a quality product.

Sr. No.	Name of Test	Testing Method	Frequency of Test	Specification Requirement	Remarks
(A)	**EARTH FILLING (Soil)**				
1	Density of compacted layer	IS:2720 Part 8, Part 28,	1 test per 400 Sqm area per 600 mm depth of filling or part thereof	Compaction 95 % of max dry density with moisture content differing not more than 4 % of the optimum content.	Tests to be performed at site Laboratory and external laboratory.
(B)	**CONCRETE WORK**				
1	Compressive Strength test (M20 to M55)	IS: 516 (Concrete cube compressive strength test)	Upto 5m3- 1Set, >5-15m3-2 Sets, >15-30m3-3Sets >30-50m3-4Sets Above 50m^3 - 4+one additional sample for each 50m^3 part thereof.	Acceptance criteria specified as per IS 456:2000.	Tests to be performed at site Laboratory and periodically (once in a month minimum 1 set of six cubes to be sent at the external laboratory)
2	Slump Test	IS 456: 2000, IS 1199: 1959	At start, end & intermittently for each pour card issued every day	As per design mix /IS code	Test to be performed at the Site laboratory and recorded in the pour card itself. (Designed & Actual)

3	Non Destructive Test (NDT)	IS:13311 Part 2			If required/ suggested by Structural consultant/ IDMC.
4	Core Cutting	IS:516			Same as 3

(C)	BRICKS				
1	Water Absorption	IS: 3495 Part-2	One test per every 50000 Nos of bricks or part thereof for make/source. One external lab test per month must be ensured during supply period at site.	Max. 20%	Site test and External laboratory test MTC to be obtained if available.
2	Compressive Strength	IS: 3495 Part-1		As per PO specification	
3	Efflorescence test	IS:3495 Part-3		Shall be Nil	
4	Dimension Tolerances (Limits per 20 bricks)	IS13757: 1993, IS 1077: 1992	**a) For modular** size **Length** 3720 to 3880 mm (3800 ± 80 rom) **Width** 1760 to 1840 mm (1800 ± 40 rom) **Height** (for 90mm) 1760 to 1840 mm (1800 ± 40 rom) Height (for 40mm) 760 to 840 mm (800 ± 40 rom)	b) **For non-modular** size **Length** 4520 to 4680 mm (4600 ± 80 rom) **Width** 2240 to 2160 mm (2200 ± 40 rom) **Height** (for 70mm) 1440 to 1360 mm (1400 ± 40 rom) Height (for 30mm) 640 to 560 rom (600 ± 40 rom)	

5	Physical verification	IS: 3495 1992	For each supply day	Free from cracks & flaws	
(D)	**CEMENT**				
1	Fineness %	IS 4031 Part-1, 2 & 15	Each Consignment if MTC is not produced. & 1 test per 50 MT supplies of one Make/Grade/Type & Test per change of Make/Grade/Type	10% maximum	External lab/site lab test MTC must be obtained for each consignment
2	Setting time	IS: 4031 Part-5		Initial 30min, Final 600min.	
3	Compressive strength	IS: 4031 Part-6		Min. 43 MPa	
4	Specific Gravity	IS: 4031 Part-11		3.10 - 3.15	
5	Soundness test	IS: 1489 Part-1, IS: 4031 Part-3		Max.10mm/ 0.8 %	
(E)	**WATER**				
1	Chloride as CL	IS: 3025 Part-1&32,	1 test per Source and every three months	500 mg/litre max.	External lab test.
2	Inorganic matter	IS: 3025 Part-18, IS: 456		3000 mg/litre max.	

3	Organic matter	IS: 3025 Part-18, IS: 456		200 mg/litre max.	
4	Suspended solids	IS: 3025 Part-17, IS: 456		2000 mg/litre max.	
5	Sulphates (As SO_3	IS: 3025 Part-24, IS: 456		400 mg/litre max.	
6	PH value	IS: 3025 Part-11, IS 10500, IS: 456		6 to 8	

(F)	REINFORCEMENT STEEL (Fe500)				
1	C/S area	IS: 1786	25 MT or part thereof for each diameter per consignment of similar make	As per respective diameter	External lab test and MTC must be obtained for each consignment
2	0.2% Proof Strength	IS: 1786		Min. 500 N/mm2	
3	Ultimate tensile strength	IS: 1786		Min. 8% more than actual 0.2% proof stress & > 545 N/mm2	

4	% Elongation	IS: 1786		12.0% Min.	
5	Weight per meter	IS: 1786		4 - 8% less per diameter	
6	Bend Test	IS: 1786		No cracks	
7	Re-bend Test	IS: 1786		No cracks	
(G)	**COARSE AGGREGATE**				
1	Sieve Analysis	IS: 2386 Part-1,IS: 383	For each supply day		Site test and External lab test
2	Water Absorption	IS: 2386 Part-3,IS: 383	1 test per three months OR change of source whichever is earlier	Max. 2%	
3	Specific Gravity	IS: 2386 Part-3,IS: 383		Min. 2.5	
4	Impact Value	IS: 2386 Part-4,IS: 383		Max. 45%	
5	Crushing Value	IS: 2386 Part-4, IS: 383: 2016		Max. 30%. If it exceeds then test for ten percent fines should be conducted & min. load for ten percent fines should be 50kN	

6	Soundness	IS: 2386 Part-5, IS: 383: 2016		In IS:383 Max 12% by Na2SO4 Max 18% by MgSO4	
7	Elongation & Flakiness Index	IS: 2386 Part-1, IS:383: 2016	For each supply day	Max. 40%	
8	Deleterious Contents	IS: 383, IS: 2386 Part-2	For each supply day	Should be Nil	
(H)	**FINE AGGREGATE**				
1	Gradation (Fineness modulus)	IS: 2386 Part-1	For each supply day	As per IS: 383, FM=2.2-3.20	Site test and External lab test
2	Zone of sand	IS :383		Grading should be fall within zone II, III.	
3	Water absorption	IS: 2386 Part- 3			
4	Silt Content (% finer than75 μ)	IS :383:2016, IS:2386 part1		Uncrushed sand-Max. 3%, Crushed sand-Max. 15%, Mixed sand-Max. 12%,	
5	Specific gravity	IS: 2386 Part- 3	1 test per Source	2.42 to 2.64	

(I)	**ADMIXTURE**				
1	Chemical Tests	IS: 9103	Every three Month/ Change of source whichever is earlier. **	Chemical test as per IS **(If MTC is not produced, test for each batch)	External lab test. MTC must be obtained for each batch.
(J)	**PAVER BLOCKS**				
1	Water Absorption	IS: 15658 - Annex C	1 test per 10000 No. or part thereof	Average shall not be more than 6% & individual restricted to 7%	External lab test. MTC must be obtained for each consignment
2	Compressive Strength	IS: 15658 - Annex D		As per PO	
(K)	**SOLID/HOLLOW CONCRETE BLOCKS**				
1	Water Absorption	IS: 2185 Part-1	1 test per 5000 No. or part thereof	Max. 10 %	External lab test and MTC to be obtained for each consignment
2	Compressive Strength	IS: 2185 Part-1		As per PO	
(L)	**FLOOR TILES**				
1	Flexural Strength	IS: 1237, IS: 13801 ANNEX-F	1 test per 2000 No or per part thereof/Consignment	Min 3 N/mm2 Or PO Specs.	External lab test and MTC must be obtained for each batch.
2	Water Absorption	IS: 1237, IS: 13801 ANNEX-E		Max. 10% or PO/ Manufacturer Specs.	

3	Abrasion	IS: 1237, IS: 13801 ANNEX-G		Avg. Max. 2 mm or PO/ Manufacturer Specs.	
4	Physical dimensions.	IS: 1237, IS: 13801 ANNEX-B&C	1 test per 100 nos.	Manufacturer specifications.	Site lab test/ External Lab test & MTC.
(M)	**TEAK WOOD**				
1	Physical Verification & Dry density.		Each Consignment	Well-seasoned by a suitable process & shall be free from decay, Fungal growth, Splits etc.	External lab test. Density for approval of consultant.
2	Moisture Content	IS:4021 & 287	Per 1 Cum or part thereof or minimum per consignment.	10 % To 12 %	
(N)	**MILD (STRUCTURAL) STEEL**				
1	Unit Weight	IS:2062	Each category per consignment or 25 MT for each category per	As per IS	External lab test. MTC must be obtained.
2	Yield stress			250 N/Sqmm,	
3	Ultimate tensile			410 N/Sqmm	

4	Elongation (%)		consignment whichever is less	23 % Min.	
(O)	**FLUSH DOOR SHUTTER**				
1	End immersion test	IS 2202-1999 (Part-I), IS 4020 (part-13)	1 test per 50 shutters or part thereof	There should not be any delamination	External lab test. MTC must be obtained.
2	Knife test	IS 2202-1983 (Part-II), Procedure IS 4020 (part-14)		Reported as 'Pass standard', 'excellent' or 'poor'.	

(P)	**ALUMINIUM DOOR /WINDOW MEMBERS**				
1	Thickness of anodic coating	IS 5523-1983	Per Category/ Consignment	As per PO/ manufacturers specification	External lab test. MTC must be obtained.
2	Wall Thickness & Sizes of Aluminium members	MTC from Approved Manufacturer			

3	Weight per meter	MTC from Approved Manufacturer			
(Q)	**ROOFING (GALVALUME) SHEETING**				
1	Thickness of sheet	MTC from Approved Manufacturer	Per Category/ Consignment	As per PO/ manufacturers specification	External lab test. MTC must be obtained.
2	Coating thickness	MTC from Approved Manufacturer			
3	Standard weight of sheet	IS 1608:2005			
4	% elongation	IS 1608:2005			
5	Yield strength (N/mm2)	IS 1608:2005			
6	Ultimate tensile strength (N/mm2)	IS 1608:2005			
(R)	**ROOFING SHEET INSULATION**				
1	Chemical for Resin Bonded fibre glass wool	IS 8183-1993	Per Category/ Consignment	As per PO specification	External lab test. MTC must be obtained.
2	Coating hardness	ASTM D 3363			
3	Testing water resistance of coating	ASTM D 2247			
(S)	**ROAD/PAVEMENT**				
(1)	**Aggregate**				

I	Impact Value	IS: 2386 (Part 4), IS: 383	1 test per 100 cum	Max. 30%	Site test & External Lab test
II	Crushing Value	IS: 2386 (Part 4), IS: 383	1 test per source	Max. 30%	
III	Loss angles abrasion value	IS: 2386 (Part 4), IS: 383	1 test per source	Max. 30%	
IV	Flakiness Index & Elongation Index	IS: 2386 (Part 1) IS: 383	1 test per 100 cum	Max. 35%	
V	Water Absorption	IS: 2386 (Part 3), IS: 383	1 test per 100 cum	Max. 2%	
VI	Specific Gravity	IS: 2386 (Part 3), IS: 383	1 test per source	Min. 2.5	
VII	Stripping Value of aggregate for BM/AC	IS: 2386 (Part 3), IRC, IS: 383	1 test per source	Max 25%	
VIII	Soundness	IS: 2386 (Part 4), IS: 383	1 test per source	Max. 12%	
(2)	**Bitumen**				
I	Softening point	IS: 73, IS: 1205	1 test per batch of bitumen supplied in bulk/ drums or part thereof		External lab test. MTC must be obtained.
II	Penetration	IS: 73, IS: 1203			
III	Elongation	IS: 73			
IV	Wax Content	IS: 73			
V	Flash/Fire point test	IS:73, IS:1209			
VI	Ductility	IS: 73, IS: 1208			
(3)	**Sub-Grade/Sub-Base**				

I	Density	IS: 2720 (Part 28)	1 test per 500 sqmt.	More than 95%	
II	CBR Test	IS: 2720 (Part 16)	1 test per 500 sqmt.		

(T)	**GRANITE STONE**				
1	Water Absorption	IS 14223 (Part 1)	Per Category/ Consignment	Max. 0.5%	
2	Compressive Strength	IS 14223 (Part 1)		Min. 1300 kg/cm2	
3	Hardness (mohs Scale)	IS 14223 (Part 1)		6 to 7	
(U)	**UPVC PIPE (Potable Water)**				
1	Internal Hydraulic Pressure	IS: 4985	Per Category/ Consignment		
2	Density	IS: 4985			
3	Sulphated ash Content test	IS: 4985		Max. 11%	
(V)	**PLASTIC EMULSION PAINT**				
1	Drying Time	IS: 15489	Per Category/ Consignme		
2	Temperature Stability	IS: 15489		Shall pass	

3	Resistance to alkali	IS: 15489	nt		
(W)	**PILE CONCRETE**				
1	Initial Load Test	IS: 2911 (Part 4)	Min. 2 nos. or as specified in contract		Integrity tests are recommended for 100% bored cast in situ piles cast by remix method for piles longer than 10m
2	Routine Load Test	IS: 2911 (Part 4)	As required		
(X)	**RMC CONCRETE**				
1	Ready Mix Concrete	IS:4926			Proportion of all its constituents & their relevant test must be checked & approved from structural consultant.

Notes:-

1. External laboratory means any government engineering college/laboratory or any other laboratory having National Accreditation Board for Testing and Calibration Laboratories (**NABL**) accreditation.

2. MTC: - Manufacturers Test Certificate.
3. ASTM-American Society for Testing and Materials
4. Technical specification (Section-IV) shall also be followed.

SECTION- V

FORM OF BID

SECTION V

FORM OF BID

The Appendices (I to IV) of Form of Bid is a part of the bid. Bidders are required to fill up all the blank spaces in this Form of Bid and Appendices.

Bid Reference No. : **IDMC/ Sourcing & VD/ 2026-27/ Enquiry/ 385 Dated 21.10.2026**

Name and address of Project Authority / Employer : **IDMC Limited**.

Description of Works : **Refurbishment, design, supply, fabrication, and erection of Conventional Roof Steel structure works for National Heavy Engineering Cooperative Ltd. Talegaon, Pune, Maharashtra.**

Dear Sirs,

1.0 Having examined the Drawings, Terms & Conditions of Contract, Technical Specifications and Schedule of Quantities for the execution of above mentioned works, we, the undersigned offer to execute, complete and maintain the whole of the said works in conformity with the said Drawings, Terms & Conditions of Contract, Technical Specifications and Schedule of quantities in accordance with the said conditions.

2.0 We undertake, if our bid is accepted, to commence the Works **within _____days** of receipt of the Letter of Acceptance, and to complete and deliver the whole of the above said works comprised in the Contract **within_____(_____) months** calculated from the lastday of the aforesaid period in which the Works are to be commenced.

3.0 If our bid is accepted, we will furnish a performance security in the form of a bank guarantee (to be approved by you) / Demand draft, to be jointly and severally bound with us in **amount of 5%** of the above named sum in accordance with the Conditions of Contract.

4.0 We agree to abide by this bid for the period of **120 days** from the date of bid opening as prescribed in **clause 13** of the Instruction to Bidders, and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

5.0 Unless and until an Agreement is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding Contract between us.

6.0 We understand that you are not bound to accept the lowest or any Bidyou may receive.

Date_____ **Signature of bidder with seal**

Place _____

Witnesses:

1. Signature:

   Name:

   Address:

2. Signature:

   Name:

   Address:

APPENDIX – I (FORM OF BID)

Important Conditions of Contract

Sl. No.	Description	Vol-I SEC-II Clause No.	Remarks
1.	Amount of Performance Security	10	**5 (Five)** percent of Total contract value
2.	Minimum amount of Third	23	**Such insurance shall befor 10% of the value of works with number of Occurrence unlimited.**
3.	Minimum amount of insurance of work	21	**110 (Hundred & ten)** percent of contract value
4.	Period for Commencement, from the Date of Letter of Acceptance	41	**15 (Fifteen)** Days.
5.	Time for Completion	43	**03 Months (Three Months).**
6.	Rate of Liquidated Damages	47	**0.5 (Zero point five)** percent per week of total contract value
7.	Maximum Limit of Liquidated Damages	47	**10 (Ten)** percent of total contract value
8.	Rate of Bonus	48	**NOT APPLICABLE**
9.	Period of Maintenance (Defects Liability Period)	50	**12 (Twelve)** Months
10.	Percentage Recovery of Retention	60.3	~~**10(Ten)** percent~~

Sl. No.	Description	Vol-I SEC-II Clause No.	Remarks
11	Maximum limit of Retention money	60.3	~~**10 (Ten)** percent~~
12.	Maximum amount of Secured Advance	60.2	Not **Applicable,**
13.	Maximum amount of Advance	60.5	Not **Applicable**,
14.	Time within which the payment wouldbe made after submission of measurement / bill	60	as per GCC
15.	Price Variation	71	**NA**
16.	Contractor's Profit & Overhead Cost for settling extra items	53.1	**15 (fifteen)** percent

Date :_____ **Signature of Bidder with Seal**

Place: _____

APPENDIX – II (FORM OF BID) BIDDING

TERMS DEVIATION STATEMENT FORM

1.) The following are the particulars of deviations from the requirements of thebidding conditions/ terms:

CLAUSE	DEVIATION	REMARKS (INCLUDING JUSTIFICATION)

The terms and conditions prescribed in the bidding document shall prevail overthose of any other document forming a part of our bid, except only to the extent of deviations furnished in this statement.

Dated:_____ **Signature and Seal of Bidder**

Place: _____

Note :-
Where there is no deviation, the statement should be returned duly signed with an endorsement indicating "NO DEVIATIONS".

APPENDIX – III (FORM OF BID) TECHNICAL

DEVIATION STATEMENT FORM

1.) The following are the particulars of deviations from the requirements of the tender technical specifications:

CLAUSE	DEVIATION	REMARKS (INCLUDING JUSTIFICATION)

The technical specification furnished in the bidding document shall prevail over those of any other document forming a part of our bid, except only to the extent of deviations furnished in this statement.

Dated :_____ **Signature and Seal of Bidder**

Place:_____

Note :-
Where there is no deviation, the statement should be returned duly signed with an endorsement indicating "NO DEVIATIONS".

APPENDIX - IV (FORM OF BID)LIST

OF SUGGESTED MAKES
(for Civil, Structural, Water Supply, Sanitary and other miscellaneous works)

The following is the suggested list of products and name of the manufacturer against each product. The contractor shall quote rates for the various items of works such that their rates should be valid for all makes suggested hereunder.It will be prerogative of IDMC LTD to approve any make out of this list or any other equivalent make. The makes specified in schedule of quantities shall have preference over the makes suggested hereunder. Wherever make is not suggested, the material should be as per relevant BIS specification.

SR. NO.	ITEM DESCRIPTION	SUGGESTED MAKES/MANUFACTURES
1.	ANTI CORROSIVE PRIMER	ASIAN OR EQUIVALENT CONFORMING TO IS – 2074
2.	STRUCTURAL STEEL & ALL MS ELEMENTS & PLATES	SAIL / TATA / VIZAG (RINL)/JSPL/ JSW

SR. NO.	ITEM DESCRIPTION	SUGGESTED MAKES/MANUFACTURES
3.	FLOAT/ PLAIN GLASS	MODI FLOAT/ ASAHI FLOAT/ SATIN GOBAIN/ TRIVENI
4.	SS FITTINGS	KICH/GOLDEN/GERGE/ ENOX
5.	ALUMINIUM SECTIONS	HINDALCO/JINDAL/INDAL/BANCO
6.	FRICTION STAY	HETTICH/HAFELE/EBCO
7.	HYDRAULIC DOOR CLOSURE/ FLOOR DOOR SPRINGS	GOLDEN/GODREJ/HARDWYN/EVERITE /HYPER/STERLING/OZONE/DORSET/ ENOX/ DORMA
8.	DOOR LOCKS	KICH/GODREJ / GOLDEN / WELMADE (PUNE)
9.	PAINTS (PREMIUM QUALITY)	ASIAN / BERGER / J&N / SHALIMAR/ICI / NEROLAC/ SNOWCEM INDIA LTD.
10.	PLASTIC EMULSION / ACRYLIC EMULSION PAINT / SYNTHETIC ENAMEL	ASIAN PAINTS / J & N / BERGER / SHALIMAR / ICI
11.	MS PIPE	TATA/JINDAL /BST /QST /PRAKASH SURYA
12.	MS HOLLOW SECTION	TATA / JINDAL/APL APOLO

SR. NO.	ITEM DESCRIPTION	SUGGESTED MAKES/MANUFACTURES
13.	STAINLESS STEEL.	JINDAL/ RATNAMANI/ APEX/ SUBHLAXMI/ RENSA/RAAJRATNA

SR. NO.	ITEM DESCRIPTION	SUGGESTED MAKES/MANUFACTURES
14.	NIGHT LATCH / MORTISE LOCK/ TUBULAR LOCK	GODREJ / GOLDEN / WELMADE (PUNE) / LINK/KICH
15.	POLYCARBONATE SHEET	LEXAN / PALRAM/EQUALIVALENT
16.	STANDARD ROLLED STEEL SECTIONS /WINDOWS	AGEW (AHMEDABAD)/ SUPER STEEL (MUMBAI) / ANAND WINDOWS (NEW DELHI) / PERFECT (AHMEDABAD), EQUIVALENT
17.	TURBO VENTILATOR/ ROOF EXTRACTOR/ ECO-VENTILATOR	DEVASHISH TURBO VENTILATORS (DIPL), MUMBAI / DHAKAR ENGINEERS, UDAIPUR / MB ENTERPRISE, AHMEDABAD / SUDHA VENTILATING SYSTEM PVT LTD, AHMADNAGAR / M/S SYGURU TECHNOLOGY SERVICES, VADODARA, SAI CORPORATION VADODARA OR EQUIVALENT APPROVED
18.	GALVANISED STEEL PRECOATED PROFILE SHEETS	TATA BLUE SCOPE / INTERARCH / METACOLOUR /JSW
19.	SS DOOR	ICLEAN, SHAKTI HORMANN
20.	AUTOMATIC SLIDING GATE MOTOR	GANDHI, BROSIS OR EQUIVALENT APPROVED
21.	FRP/GRP GRATINGS	BALAJI/ERCON/EQUIVALENT
22.	SLIDING GATE OPENER MOTOR CONTROL UNIT PCB CONTROLLER CIRCUIT BOARDELECTRONIC CARD	GANDHI AUTOMATION/ HITSAN/VISHWAS

NOTE:

1 For equivalent, ISI or approved marked items included above, if opted by contractor, specific approval to be taken by contractor for make, before procurement and use.

2 For the items not indicated above but to be used for PEB Works , specific approval to be taken before procurement and use after submitting sample, detail of manufacturer, source of supply etc.

WE HAVE NOTED THE ABOVE AND CONFIRM THAT OUR TENDER ISBASED ON ABOVE SUGGESTED MAKES.

Date:_____ **Signature and Seal of Bidder**

~~LIST OF SUGGESTED MAKES OF ELECTRICAL WORKS~~

~~The following is the list of products and names of the approved manufacturer against each product. The contractor shall quote rates for the various item of works using these products based on maximum two makes out of these approved manufacturers selected & filled up in format given below by the bidder. Any other make of product, not approved below, shall not be allowed for use in this work unless specifically approved in writing separately by purchaser after establishing its technical suitability, price availability & effecton price quoted by contractor for the item where this item is being used. If no make has been selected by the bidder, the purchaser shall be at liberty toadvice the contractor to use any of the approved manufacturer given below for any product for this contract.~~

~~SR. NO.~~	~~ITEM DESCRIPTION~~	~~APPROVED MAKES~~
~~1.~~	~~PVC CONDUITS~~	~~PRECISION, POLYCAB, POLYPACK, BHARAT, SUDHKAR~~
~~2.~~	~~PVC CONDUIT ACCESSORIES~~	~~PRECISION, POLYCAB, POLYPACK, BHARAT, SUDHKAR~~
~~3.~~	~~PVC INSULATED, FLEXIBLE STRANDED COPPER CONDUCTOR FRLS WIRES~~	~~FINOLEX, RR KABEL (UNILAY), L&T, HAVELL'S, POLYCAB~~
~~4.~~	~~PVC INSULATED ARMOURED, ALUMINIUM CONDUCTOR CABLES~~	~~KEC, RPG-ASIAN, FINOLEX, NICCO, RR KABEL, CCI, POLYCAB, HAVELS~~
~~5.~~	~~MODULAR SWITCHES, SOCKET OUTLET & MOULDED COVER PLATES~~	~~MK ELECTRIC, CRABTREE, SCHEINDER, ANCHOR ROMA (PANASONIC), L&T, CLIPSAL, LK PACE (ENGLISH MODULE), ABB, HAVELS, SCHNEIDER~~
~~6.~~	~~MINIATURE CIRCUIT BREAKERS (M.C.B)~~	~~LEGRAND, L&T ,HAGER, SIEMENS, ABB, HAVELL'S (CRABTREE),~~
~~7.~~	~~EARTH LEAKAGE CIRCUIT BREAKERS (ELCB)/RESIDUAL CURRENT CIRCUIT BREAKER (RCCB)~~	~~LEGRAND, L&T ,HAGER, SIEMENS, ABB, HAVELL'S (CRABTREE),~~

SR. NO.	ITEM DESCRIPTION	APPROVED MAKES
~~8.~~	~~MOULDED CASE CIRCUIT BREAKERS (MCCB)~~	~~SIEMENS, L&T, ABB, MERLIN GERIN, LEGRAND, ENGLISH ELECTRIC, SCHNEIDER COMPACT NSX~~
~~9.~~	~~SWITCH FUSE UNITS WITH HRC FUSES FOR PANELS (TPN &TP)~~	~~L&T, SIEMENS, ABB, SCHNEIDER, ENGLISH ELECTRIC, TELEMECHANIC~~
~~10.~~	~~AMMETERS, VOLTMETERS, PF METERS (ANALOGUE)~~	~~AUTOMATIC ELECTRIC, L&T (RISHAB), MECO, IMP, SCHNEIDER~~
~~11.~~	~~AMMETERS, VOLTMETERS, PF METERS (DIGITAL)~~	~~L&T (RISHAB), SCHNEIDER, SIEMENS, L&T (RISHAB)~~
~~12.~~	~~CURRENT TRANSFORMERS (CAST RESIN)~~	~~KAPPA, GILBERT MAXWELL, AUTOMATIC ELECTRIC, MECO, BHARATI~~
~~13.~~	~~ENERGY METERS (MECHANICAL)~~	~~UNIVERSAL, JAIPUR, HAVELL~~
~~14.~~	~~ENERGY METERS (ELECTRONIC)~~	~~L&T, RISHAB, SCHNEIDER, SIEMENS REICO, SECURE, MECO, ICD, ELECON~~
~~15.~~	~~TELEPHONE WIRES & CABLES~~	~~FINOLEX, RR KABEL, POLYCAB, SKYTONE, L&T, DELTON~~
~~16.~~	~~COMPUTER DATA CABLES (CAT 5/6)~~	~~LUCENT, AT&T, AMP,D-LINK~~
~~17.~~	~~TELEPHONE TAG BOX~~	~~KRONE, POUYET~~
~~18.~~	~~LOW TENSION SWITCHGEAR~~	~~L&T, SIEMENS, ABB, SCHNEIDER~~
~~19.~~	~~CABLE COMPRESSION GLANDS~~	~~COMET, PEECO, DOWELL, LAPP KABEL~~
~~20.~~	~~CABLE LUGS~~	~~DOWELL'S, LAPP KABEL, COMET PEECO~~
~~21.~~	~~INDUSTRIAL TYPE METALLIC PLUG SOCKETS~~	~~LEGRAND, CUTTLER & HAMMER, SIEMENS,SCHNEIDER, INDO KOPP, CLIPSAL~~

SR. NO.	ITEM DESCRIPTION	APPROVED MAKES
~~22.~~	~~DISTRIBUTION BOARDS~~	~~LEGRAND , L&T (HAGER), SIEMENS, ABB, HAVELL'S (CRABTREE) , INDO KOPP, SCHNEIDER~~
~~23.~~	~~SELECTOR SWITCHES~~	~~KAYCEE, L&T SULZER~~
~~24.~~	~~INDICATION LAMPS (LED TYPE)~~	~~L& T SIEMENS, ABB, SCHNEIDER, ESSEN, BCH, VAISNAV, TECHNIC~~
~~25.~~	~~RISING MAINS~~	~~CONTROL & SWITCHGEAR, ZETA~~
~~26.~~	~~POWER CAPACITORS~~	~~ASIAN, EPCES, L&T,SCHNEIDER, MOMAYA, SEIMENS~~
~~27.~~	~~MS / GI CONDUITS~~	~~AKG, BEC, VIMCO, GUPTA, BHARAT~~
~~28.~~	~~MS / GI CONDUIT ACCESSORIES~~	~~SHARMA, RAMA~~
~~29.~~	~~TIMER~~	~~L&T / SEIMENS/ MINILEC~~
~~30.~~	~~CABLE TRAYS~~	~~PROFAB / UBITECH / TECHNOFAB /OBO/LEGRAND/FRASER~~
~~31.~~	~~LIGHT FITTINGS~~	~~PHILIPS / CG / WIPRO / BAJAJ~~
~~32.~~	~~EARTH ELECTRODE~~	~~ASHLOK / GRAVIN~~
~~33.~~	~~UPS~~	~~SCHNEIDER APC / CONSUL NEOWATT / HIREL-HITACHI/ EMERSON~~
~~34.~~	~~CEILING FAN / ESHAUST FAN~~	~~ALMONARD / CROMPTON /HAVELLS/ ORIENT/ CROMPTON GREEVES~~
~~35.~~	~~BATTERY BACK UP KIT & EXIT SIGNAGES~~	~~BAJAJ/ CROMPTON/ COOPER~~
~~36.~~	~~FLAME PROOF SOCKETS, SWITCHES~~	~~BALIGA/ COOPER/CND HI TECH~~
~~37.~~	~~RACK~~	~~SCHNEIDER/ RITTAL/COMMSCOPE/ PANDUIT~~
~~38.~~	~~POP UP BOX/NET BOX~~	~~A&H MEYER/ LEGRAND~~

SR. NO.	ITEM DESCRIPTION	APPROVED MAKES
~~39.~~	~~TV CABLES~~	~~SKYTON/ FINOLEX/ DELTON~~
~~40.~~	~~TERMINAL BLOCKS~~	~~DOWELL'S/ ELEMEX/~~ WAGO/ ~~PHOENIX~~
~~41.~~	~~ELECTRIC MOTORS~~	~~SIEMENS/ABB/BHARAT BIJLEE/CROMPTON/KIRLOSKAR/L&T~~
~~42.~~	~~AIR CIRCUIT BREAKER~~	~~L&T – U POWER OMEGA/ SIEMENS 3 WL / SCHNEIDER MASTERPACT NW SERIES/ ABB~~
~~43.~~	~~MCCB~~	~~L&T D' SINE / LEGRAND / SIEMENS 3 VL / MERLIN GERIN COMPACT SERIES/ ABB TMAX/ GE RECORD RANGE / HAGER/SCHNEIDER~~
~~44.~~	~~PROTECTION RELAYS~~	~~L&T / SIEMENS / ABB / AREVA T&D/ ASHIDA~~
~~45.~~	~~CONTACTORS~~	~~L&T / SIEMENS / ABB / SCHNIEDER/ GE~~
~~46.~~	~~TIMERS ELECTRONIC~~	~~L&T / SIEMENS / GE/ ABB/ SCHNIEDER~~
~~47.~~	~~SWITCH DIS-CONNECTOR FUSE UNITS~~	~~L&T / SIEMENS / ABB /SCHNIEDER/GE~~
~~48.~~	~~MCB/RCCB~~	~~LEGRAND/HPC/INDO KOPP/SIEMENS / HAGER / MERLIN GERIN / LEGRAND/ABB/ L&T/ GE/ SCHNIEDER/HAVELLS~~
~~49.~~	~~MCCB~~	~~L&T/ SIEMENS/ABB/LEGRAND/HAGER~~
~~50.~~	~~INDICATING LAMPS~~	~~L&T / SIEMENS / SCHNEIDER / VAISHNO / TEKNIC / ABB~~
~~51.~~	~~PUSH BUTTONS~~	~~ESBEE / SIEMENS / ABB / VAISHNO / TEKNIC/ L&T~~
~~52.~~	~~ISOLATORS~~	~~SIEMENS /ABB / BCH/~~ HAVELLS/

SR. NO.	ITEM DESCRIPTION	APPROVED MAKES
		~~L&T/HANSU/HENSEL/SINTEX~~
~~53.~~	~~LOAD MANAGER~~	~~SIEMENS/ ABB/ L&T / SCHNEIDER/ CONZERV/ ALLEN BRADLEY (ROCKWELL)~~
~~54.~~	~~DIGITAL AMMETER & VOLTMETER~~	~~CONZERV / L&T / RISHABH /AE/IMP/MECO~~
~~55.~~	~~ANALOG AMMETER & VOLTMETER~~	~~RISHABH / IMP / AE/ L&T/SCHNEIDER~~
~~56.~~	~~DIGITAL ENERGY METER~~	~~CONZERV / L&T / ABB/SIEMENS /HPCL/UNIVERSAL/JAIPUR/REIL~~
~~57.~~	~~PVC CONDUIT & ACCESSORIES~~	~~PRECISION / POLYCAB / CLIPSAL~~
~~58.~~	~~POWER FACTOR METER~~	~~RISHABH / IMP / MECO / AE/ L&T~~
~~59.~~	~~CURRENT TRANSFORMER~~	~~KAPPA / BHARTI/ ASHMORE/ L&T/RISHABH / AE /MAXWELL/IMP/MECO/GILBERT~~
~~60.~~	~~HT XLPE POWER CABLES~~	~~GLOSTER/ CCI / KEC / FINOLEX / NICCO /KEI~~
~~61.~~	~~LT XLPE POWER CABLES~~	~~GLOSTER/ CCI / KEC / FINOLEX /LAPP KABEL / NICCO /RR KABEL /SBEE~~
~~62.~~	~~LT COPPER CONTROL CABLES~~	~~LAPP KABEL / CONCAB / CCI / RPG ASIAN / FINOLEX / RR KABELS/ SBEE/GLOSTER~~
~~63.~~	~~SIGNAL & INSTRUMENT CABLE~~	~~LAPP KABEL / CONCAB /RR KABEL/SBEE/ DIGILINK~~
~~64.~~	~~POWER CAPACITORS~~	~~SIEMENS/ EPCOS / L&T/ ABB/ SCHNIEDER / GE/NEPTUNE-DUCATI~~
~~65.~~	~~APFC RELAY~~	~~BELUKE /SIEMENS / EPCOS / L&T/ ABB/ SCHNEIDER/ NEPTUNE-DUCATI/ GE~~
~~66.~~	~~CABLE TRAY~~	~~INDIANA / MEK / SUNRISE / SUPER /~~

SR. NO.	ITEM DESCRIPTION	APPROVED MAKES
		~~PILCO / SINTEX~~
~~67.~~	~~ISOLATING SWITCHES~~	~~SIEMENS/ABB/L&T/ SCHNEIDER~~
~~68.~~	~~HRC FUSES~~	~~L&T / SIEMENS / GE/ ABB /EE~~
~~69.~~	~~TERMINAL BLOCKS~~	~~WAGO / LAPP INDIA / CONNECT WELL/ ELMEX~~
~~70.~~	~~POTENTIAL TRANSFORMERS~~	~~KAPPA / JYOTI/ BHARTI/AE / ASHMORE~~
~~71.~~	~~ROTARY SELECTOR SWITCH~~	~~KAYCEE / SALZER - L&T / SIEMENS / ABB~~
~~72.~~	~~CABLE GLANDS~~	~~COMET / EX-PROTECTA / DOWELS / LAPP KABEL~~
~~73.~~	~~CABLE LUGS~~	~~DOWELS / COMET / LAPP KABEL/ BRACKO~~
~~74.~~	~~MECHANICAL INTERLOCK~~	~~L&T / SCHNEIDER / ABB/ GE/SIEMENS~~
~~75.~~	~~XLPE CABLE JOINTING / TERMINATING KIT~~	~~RAYCHEM / M-SEAL/BIRLA 3M~~
~~76.~~	~~PROGRAMMABLE PROTECTION RELAY~~	~~MINILEC/ ABB/ L&T/ SIEMENS/ SCHNIEDER/ GE~~
~~77.~~	~~LT SANDWICH BUS DUCT~~	~~L&T/ GE/ C&S/ SIEMENS/ ABB/ SCHNIEDER~~
~~78.~~	~~STEEL STRUCTURE~~	~~SAIL/ESSAR/TISCO/ JINDAL~~
~~79.~~	~~LT SWITCHGEAR~~	~~L&T/SIEMENS/ABB/ SCHNIEDER~~
~~80.~~	~~POWER / CONTROL CABLES, WIRES~~	~~CCI / GLOSTER/ FINOLEX/ UNIVERSAL/ NICCO/ RPG~~
~~81.~~	~~INDICATION LAMP LED TYPE~~	~~BINAY/ SIEMENS/ L&T/ TEKNIC/ ABB~~
~~82.~~	~~WEATHER PROOF BOXES FOR ISOLATORS, PUSH BUTTONS~~	~~HANSU/ HENSEL/ SINTEX~~

Note:

~~The following shall be got approved from Purchaser:~~

1. ~~Samples of Conduit, conduit bends & junction box.~~
2. ~~Samples of Switch box and outlet box with hylem sheet cover & switches.~~
3. ~~Drawings & inspection for following:~~
   - ~~(i) Distribution boards~~
   - ~~(ii) Electrical switch boards~~
   - ~~(iii) Street light poles & brackets.~~
   - ~~(iv) Galvanised Raceways & its junction box.~~
   - ~~(v) Flood light Tower~~
4. ~~Samples for modular switches, sockets, grid & cover plate and their boxes.~~
5. ~~Samples for telephone & computer data outlet box & outlet.~~
6. ~~Samples of GI wires and strips.~~
7. ~~All Electrical works shall be carried out by a licensed electrical contractor possessing a valid electrical contractors license in the state where site is located, employing licensed supervisor & skilled workers having valid permits as per the regulations of Indian Electricity Rules and local Electrical Inspector requirements. Copy of contractor's electrical license shall be furnished along with the tender.~~

WE HAVE NOTED THE ABOVE AND CONFIRM THAT OUR TENDER ISBASED ON THE APPROVED MAKES INDICATED ABOVE.

Date_____ **Signature & Seal of Bidder**

MAXIMUM CAPACITY OF CONDUITS FOR THE DRAWING-IN OF 1100 VOLTSGRADE PVC COPPER WIRES AS PER IS & BS

Nominal Cross Sectional Area of wire (Cu) Sq. mm	Size of Conduit (mm)											
	19		25.0		32.0		38		50		63.0	
	S	B	S	B	S	B	S	B	S	B	S	B
1.5	5	4	10	8	14	12	-	-	-	-	-	-
2.5	5	4	8	6	12	10	-	-	-	-	-	-
4.0	3	2	8	6	10	8	-	-	-	-	-	-
6.0	2	1	5	3	8	5	-	-	-	-	-	-
10.0	-	-	3	2	5	4	6	5	-	-	-	-
16.0	-	-	-	-	3	2	6	4	-	-	-	-
25.0	-	-	-	-	2	1	4	3	6	4	7	5
35.0	-	-	-	-	-	-	3	2	5	4	6	4
40.0	-	-	-	-	-	-	2	2	5	4	7	5
50.0	-	-	-	-	-	-	2	1	4	2	5	4

NOTE: This table shows the maximum capacity of conduit for the simultaneous drawing of wires. The table applies to 1100 volts grade wire/cables. The columns headed S applies to runs of conduit which have distance not exceeding 4.25 m between draw-in-boxes and which do not deflect from the straight by anangle of more than 15 deg. The columns headed B apply to runs of conduit which deflect from the straight by an angle of more than 15 deg.

LIST OF STANDARD SKETCHES

S No	DESCRIPTION
☑	~~Fixing Details for LED Light Fittings (Sketch No. 16)~~
☑	~~Outlet Box & Installation Details for Ceiling Fan(Sketch 17)~~
☑	~~Details of MS Outlet Box for Installation of Fittings on Slab(Sketch No. 18-A)~~
☑	~~Details of MS Outlet Box for Installation of Fittings on Wall (Sketch No. 18-B)~~
☑	~~Installation Tips for Lighting Switchboards (Sketch No. 20)~~
☑	~~Termination of Armoured Cable in Concealed Distribution Board (Sketch No. 24)~~
☑	~~Laying of Cables , Underground(Sketch No. 26)~~
☑	~~Rout Maker for Underground Cables & Ckt. Diagram for Earth Continuation Test (Sketch No. 27)~~
☑	~~Laying of cables in RCC /G I Pipes(Sketch no. 30)~~

NOTE: ITEMS TO BE SUPPLIED AND INSTALLED AS PER DETAILS GIVENIN THESE SKETCHES WHEREVER APPLICABLE.

SECTION- VI

SCHEDULE OF MATERIAL

TO BE ISSUED

SECTION VI

SCHEDULE OF MATERIAL TO BE ISSUED BY SERVICE RECIPIENT /IDMC

No material shall be issued by Service Recipient/IDMC unless otherwise specified in the bidding document. All the materials/goods & services are to be arranged by the bidder/contractor for proper completion of the works as per specification, terms & conditions of the bidding document/contract.

SECTION- VII

SCHEDULE OF SUPPLEMENTARY INFORMATION

SECTION - VII, SCHEDULE OF SUPPLEMENTARY INFORMATION

The bidder shall provide the Supplementary Information as Annexed in the form of schedules mentioned hereunder. All these supplementary information shall be considered for the bid evaluation and same in the contract execution. If the requisite information is not supplied by the bidder then the bid may be considered non-responsive and shall be rejected.

a)	Schedule	I	Major items of construction plant to be deployed by the bidder.
b)	Schedule	II	Key Personnel.
c)	Schedule	III	Nominated Sub-Contractors.
d)	Schedule	IV	Major works successfully completed during the last five years.
e)	Schedule	V	Statement of Bonus earned/ Liquidity damages paid in the last five years.
f)	Schedule	VI	Statement of Arbitration & Disputes in the last five years.
g)	Schedule	VII	Financial Business Capability.
h)	Schedule	VIII	Works in hand
i)	Schedule	IX	Undertaking for Declaration of GST Invoice Raising

SECTION – VII, SCHEDULE – I

Major items of Constructional plant to be deployed by the bidder.

Sl. No.	Description	Specification/Capacity	Machinery Proposed To Be Deployed At Site By Contractor	
			Owned	To Be Hired
1.	**Survey Equipment**			
	Total Station With Accessories			
	Auto Level With Staff			
2.	**Earth Moving Equipment**			
	Backhoe Loader (JCB)	Shovel Capacity :		
	Breaker For Above			
	Poclain With Hydraulic Chisel /Breaker	Bucket Capacity :		
	Front End Loader	Bucket Capacity :		
	Reversible Plate/vibro Roller Earth Compactor			
	Plate Earth Compactor			
	Tamping Rammer			
	Water Sprinkling System			
3.	**Lifting Equipment**			
	Tower Crane			
	Hoist			
	Mobile Crane/Hydra	Capacity :		
4.	**Concreting Equipment**			

Sl. No.	Description	Specification/Capacity	Machinery Proposed To Be Deployed At Site By Contractor	
			Owned	To Be Hired
	PLC Controlled Batching Plant With Printing Facility Of Batching Slip & Cement Silos	Machine Capacity = 15cum/Hr		
		Machine Capacity = 25cum/Hr		
		Machine Capacity = 30cum/Hr		
	Concrete Pump	Suitable For Pumping Concrete Upto 50mtr Vertical Height & 100mtr Horizontal Length		
	Boom Placer	Upto Horizontal Reach 40m		
	Transit Mixers	Capacity=6 CUM		
	Concrete Mixer With Hopper	Batching Capacity = 1 Bag Cement ; Machine Capacity =		
	Vibrator Machine Electric Operated			
	Vibrator Machine Diesel Operated			
	Vibrator Needles	60mm Dia.		
		40mm Dia.		
		25mm Dia.		
	VDF Kit			
	Screed Vibrator			
	Power Trowel			
	VDF Mat			
5.	**Building Work Equipment**			
	Mortar Mixtures (For Mortar Making)	Capacity : Min. 1 Bag		
	Bar Bending Machine	Upto 32mm Dia		
	Bar Cutting Machine	Upto 32mm Dia		
	Chase Cutting Machine			

Sl. No.	Description	Specification/Capacity	Machinery Proposed To Be Deployed At Site By Contractor	
			Owned	To Be Hired
	Rotary Sans Screening Machine			
	Marine Densified Plywood Shuttering (New)	Min. – 600 sqm.		
	Steel Shuttering Plates	Min. – 600 sqm		
	Scaffolding	Min. – 1200 sqm		
	Grinding Machine			
	Hammer Drilling Machine			
	Welding Machine			
	Air Compressor			
	Concrete Breakers			
	De Watering Pumps			
6.	**Road Work Equipment**			
	Tandem Vibratory			
	Smooth Wheeled Roller 8-10 MT			
	Hot Mix Plant			
7.	**Transportation Equipment**			
	Hydraulic Dumpers			
	Trucks /Tractor With Trolley			
	Wheel Borrow			
	Tough Rider			
8.	**De Watering Equipment**			
	De Watering Pump	_____HP		
	Mud pump			
9.	**Power Equipment**			

Sl. No.	Description	Specification/Capacity	Machinery Proposed To Be Deployed At Site By Contractor	
			Owned	To Be Hired
	DG Set	_____KVA		
10.	**Piling Equipment's (not applicable)**			
	Percussion/Rotary Drilling Rigs Using Direct/Reverse Mud Circulation			
	TMR/ Bailer & Chisel Rigs.			
	Winch			
	Derrick			
	Boring/Chiselling Tools			
	Temporary Casings	Pipes-		
11.	**Tremie Arrangements (not applicable)**			
		Concrete Hopper-		
		Hopper Plugs-		
		Tremie Pipe-		
		Holding Clamps-		
		Hoisting Plug-		
	Accessories Like Concrete Placer, Wheel Barrow, Measuring Chain, Bailers, Crow Bars, Dog Clamps With Pins, Steel Measuring Tapes, Mucking Shovel Etc.- 1 Lot			

Note:- Bidder to submit the documents pertaining to ownership of equipment owned by them.

Signature and seal of Bidder

SECTION - VII, SCHEDULE – II, KEY PERSONNEL

1.	**Technical Personnel Requirement**	**No. of persons employed with the bidder**	**No. of persons to be deployed for the project.**
	a) Senior Engineer (Project Manager)- 1 no.		
	b) Site Engineer (Degree holder)- 2 no.		
	c) Billing Engineer (Degree holder)- 1 no. d) Quality control engineer-1 no. e) Electrical engineer – 1 no. f) Safety engineer – 1 no.		
2.	Supervisory Personnel		
	a) Supervisor (Diploma holders) 2		
	b) Foremen		
	c) Technicians		
3.	Other key staff		

Signature and seal of Bidder

SECTION - VII, SCHEDULE – III, Nominated Sub-contractor

(List of works of value more than 10% of the contract value proposed to be sublet)

Sl. No.	Description	Approx. Value Rs.	Name of the Sub-contractor	Place where similar works previously executed.

Signature and seal of Bidder

SECTION - VII, SCHEDULE – IV

Major similar nature of works successfully completed during the past five years:

Similar nature of work means Civil works of industrial buildings in Dairy/ Food or Beverage/Pharma/ Chemical/ Electronics/Frozen Semen station having clean room laboratory/Bio-Containment Laboratory/Bio-Gas/ETP plant having similar finishes, flooring, drainage including or excluding internal electrification works etc. during the last five years.

Sr. No.	Name of work	Place	Contract Ref.	Name of Client	Value of Work	Time of Completion	Date of Completion

Note: Documentary evidence for above information to be attached separately in the form of completion certificate, purchase order, TDS certificate , details of payments etc. issued by the client.

Signature and seal of Bidder

SECTION - VII, SCHEDULE – V

Statement of Bonus earned/ Liquidity damages (L.D.) paid in the past five years :

S. N.	Name of Work	Place	Contr-act ref.	Name of Owner	Value of Work (Rs. Lakh)	Time of Completion (Months)		Bonus / L.D.
						Contract	Actual	

Signature and seal of Bidder

SECTION - VII, SCHEDULE – VI

Statement of Arbitration & disputes in the last five years.

S. N.	Name of Work	Place	Contract reference	Name of Client	Value of Work (Rs. Lakh)	Nature of Dispute	Award of Arbitration

Signature and seal of Bidder

SECTION - VII, SCHEDULE – VII

Financial and business Capability.

1.	Audited annual accounts/ Accounts audited under section 44AB of Income Tax Act of past 3 years	:
2.	Where accounts are not required to be audited following information shall be given for last three years duly attested by a Charted Accountant/ Manager of nationalised Bank.	:
a.	Share Capital	:
	Free Reserves	:
	Other Reserves	:
b.	Term loans from financial institutions & banks	:
c.	Current Liabilities	:
	Bank Cash Credits	:
	Others (Including sundry creditors)	:
d.	Provisions	:
e.	Contingent Liabilities including claims not acknowledged	:
f.	Fixed Assets	:
	Gross	:
	Net	:
g.	Cash and Bank Balances	:
h.	Inventories	:
i.	Debtors & Advances considered good	

More than 6 months :

Less than 6 months :

j. Profit before tax :

k. Loss, if any :

3. Other information

Name of the Bankers :

Bank facilities including credit limits :

4. Projected turn over for the next twoyears

Year 1 :

Year 2 :

NOTE:

Wherever required documentary evidence may be attached separately.

Signature and seal of Bidder

SECTION - VII, SCHEDULE - VIII,
WORKS IN HAND

Sl. No	Name of Work	Contract reference and date	Name of Client (Mobile No. & Email	Place of Contract	Total Value of Contract (Rs. Lakh)	Total Duration of Contract as per PO (Month	Value of Works Completed as on Bid Opening Date (Rs.	Balance Value of Works to be Completed as on Bid	Completion Schedule of Balance Works	
									Period (Months)	Expected date of Complete

On Bidder's Letter Head

SECTION - VII, SCHEDULE - IX, Declaration of GST Invoice Raising Location

To: Date :

IDMC Limited

124-128, GIDC Estate,

Vithal Udyognagar-388121,

Dist. Anand, Gujarat

Subject: Undertaking for Declaration of GST Invoice Raising Location

We have carefully examined and reviewed the tender documents, including all terms and conditions, specifications, and requirements pertaining to the work _____ at ____. Based on our review and understanding of the tender requirements, we hereby declare and undertake as under:

We, M/s _____, shall raise GST invoices for the execution of the above-mentioned work from the following office/establishment:

Office Name: _____

Complete Address: _____

GST Registration:_____

We confirm that all tax invoices related to the said contract, if awarded to us, shall be issued from the above-mentioned GST registration/location.

We further undertake that the GST registration details furnished above are valid and active as on the date of submission of the bid.

In the event of any change in the invoice-issuing location or GST registration during the contract, we shall immediately inform to principle contractor (IDMC Limited) in writing and comply with all applicable statutory and contractual requirements.

We understand and acknowledge that this declaration forms an integral part of our bid submission. Any false statement, misrepresentation, concealment of facts, or deviation from this undertaking may result in rejection of our bid, cancellation of award, termination of contract, forfeiture of security deposit/performance security, and/or any other action deemed appropriate by the Employer.

We hereby certify that the information furnished above is true, complete, and correct to the best of our knowledge and belief.

For, M/s._____-

Authorised Signatory

SECTION IX

Acceptable Forms of Bank Guarantees

Table of contract

S. No.	Description	Sequential Page No.
1.0	Performance Security	IX-2 to 4
2.0	Bid Security	IX-5 to 7
3.0	Advance payment	IX-8 to 10
4.0	Retention money	IX-11 to 13
5.0	Solvency Certificate	IX-14

1.0 Bank Guarantee to secure performance

(to be executed on stamp paper of appropriate value - usually Rs. 100/-)

Currency: INR / EURO / USD	Amount in figures		
Amount in words			
Date of execution		Date up to when in force/ Date of expiry	
Date of Claim/ Demand (up to 365 days beyond the date of expiry)			
Name and address of beneficiary	IDMC Limited, Plot no. 124-128, GIDC Estate, Vithal Udyognagar, District Anand, Gujarat -388121		
Name and address of the vendor and/ or service provider (i.e. purchaser of the bank guarantee from the bank)			

THIS deed of guarantee made on this _____ day of _____, 2023 between _____ (name of the bank issuing this guarantee), herein after called 'the bank', on the first part and _____ (hereinafter referred to as 'vendor and/ or service provider in relation to IDMC Limited' and 'purchaser in relation to the bank' respectively) on the second part.

WHEREAS, the purchaser of the bank guarantee has been engaged by IDMC Limited as a vendor and/ or service provider for _____ (e.g. design, manufacture and supply of equipment or installation/ testing/ commissioning/ job work/ preventive maintenance/ break-down maintenance/ consulting or advising services as envisaged in purchase order(s)/ contract(s) _____ dated _____) which is required to be performed in pursuance of the said purchase order(s)/ contract(s);

WHEREAS, the vendor and/ or service provider is required to submit this bank guarantee for a sum of Rs. _____ (Rupees _____only) as security for fulfilling its obligation to secure performance of the _____ (description of goods and/ or services) under the said purchase order(s)/ contract(s).

AND WHEREAS, at the request of the vendor and/ or service provider, the bank has agreed to guarantee the refund of the said amount in case the aforesaid goods and/ or services do not perform to the satisfaction of IDMC Limited as per the terms and conditions of the said purchase order(s)/ contract(s).

NOW THIS DEED OF GUARANTEE DOES WITNESSETH AS UNDER:

1. That in consideration of IDMC Limited having awarded the said purchase order(s)/ contract(s), the bank does hereby irrevocably guarantee and indemnify that if the vendor and/ or service provider has supplied and/ or provided _____ (description of goods and/ or services), which is not to the satisfaction of IDMC Limited, as per the details, terms and conditions contained in the said purchase order(s)/ contract(s), *supra*, the Bank shall, without demur, repay and indemnify IDMC Limited within seven (7) working days as the bank may be called upon to pay subject to a ceiling of Rs. _____ (Rupees _____);

2. We, _____ (name of the bank), further agree that this performance guarantee will remain in full force and effect up to _____ by which duration IDMC Limited believes it may be reasonable to certify that the defect liability period has been successfully completed as per the details contained in the purchase order(s)/ contract(s),supra.

3. That the bank shall not question any of the details, terms and conditions contained in the said purchase order(s)/ contract(s), *supra*, including but not limited to the amount of consideration agreed upon between IDMC Limited and the vendor and/ or service provider for the purposes of determining its acceptance of liabilities under this bank guarantee and forthwith accept the demand of IDMC Limited to determine this bank guarantee;

4. That at the written request of either IDMC Limited or the vendor and/ or service provider, the bank shall renew this bank guarantee before it's date of expiry.

5. That the Bank agrees that the amount hereby guaranteed shall be immediately due and payable to IDMC on serving the bank with a notice before the date of expiry or date of claim/ demand, whichever is earlier. The claim can be lodged by IDMC limited up to 365 days beyond the date of expiry or extended date of expiry.

6. This Bank Guarantee shall be subject to the law as applicable in India.

7. Notwithstanding anything stated herein before:

(i) The Bank's liability under this guarantee is restricted to Rs._____/-(Rupees_____ only);

(ii) This guarantee shall remain in force till _____and;

(iii) The Bank is liable to pay the guaranteed amount or any part thereof under this bank guarantee only if IDMC Limited serves upon the Bank a written claim/ demand on or before_____ (Date of Claim/ Demand) including 365 days of grace period from date of expiry.

IN WITNESS WHEREOF, the bank has signed on this _____ day of _____, 2023.

Signature of Bank Manager

2.0 Form of Bank Guarantee for Bid security (On the Non-Judicial Stamp paper of Rs. 100 minimum or as per the stamp act of Local State Government).

Bank Guarantee No: Date:

This deed of guarantee made this _____ day of _____ (two thousand and _____) by (Name and the address of the Bank), hereinafter referred to as the Bank, which shall unless repugnant to the context and the meaning thereof includes its legal representatives, successors and assignees and the IDMC Limited ,(hereinafter referred to as the IDMC Limited) which expression shall unless repugnant to the context and meaning thereof include its legal representative, successors or assignees.

Whereas the IDMC Limited has invited bids for the Construction of the proposed _____ _____ by the Invitation to bid no._____.

AND WHEREAS M/s _____ _____ (Name and the Address of the bidders) who having submitted their bids (hereinafter referred to as the bidder) and have agreed to deposit to the IDMC Limited an amount indicated in the Invitation to bid as per the terms and the conditions of the bidding documents.

AND WHEREAS the IDMC Limited is also willing to accept a Bank guarantee in lieu of payment by demand draft of an amount equivalent to the amount of bid security required to be deposited by the bidder to the IDMC Limited and the guarantee shall be kept valid for 120 days after the day of the opening of the bids.

In consideration of the IDMC Limited having agreed to consider the bid proposals having submitted by the bidder without depositing the amount of bid security and against this Bank guarantee, we (name and the address of the Bank) hereby undertake and guarantee to make payment to the IDMC Limited the amount of bid security or any part thereof not deposited by the bidder to the IDMC Limited at any time (time being the essence of the Contract) when the IDMC Limited asks for the same as per the terms and the conditions of the bidding documents within 120 days from the date of opening of the bids.

The Bank further undertakes not to revoke this guarantee during its currency except with the previous consent of the IDMC Limited in writing and the guarantee shall be continuous and irrevocable guarantee up to a sum of Rs. _____ (Rupees _____ only) provided

always that any indulgence or forbearance on the part of the IDMC Limited to the said bidder, with or without the consent of the Bank shall not prejudice or restrict remedies against the bank nor shall the same in any event be a ground of defence by the Bank against the IDMC Limited.

In case the IDMC Limited puts forth a demand in writing on the Bank for the payment of the amount in full or in part against this Bank guarantee, the Bank will consider without demur that such demand by itself is a conclusive evidence and proof that the bidder has failed in complying with the terms and conditions stipulated by the IDMC Limited in its bidding document and payment will be made to the without raising any disputes regarding the reasons for such failures on the part of the bidder.

The Bank shall not be discharged or released from this guarantee by any arrangement between the bidder and the IDMC Limited with or without the consent of the Bank or any alterations in the obligations of the parties or by an indulgence, forbearance shown by the IDMC Limited to the bidder.

This guarantee shall be in addition to and without prejudice to any other securities or remedies which the IDMC Limited may have or hereafter possess against the bidder and the IDMC Limited shall be under no obligations to marshal in favour of the Bank any such securities or fund or assets that the IDMC Limited at its absolute discretion may vary, exchange, renew, modify or refuse to complete or enforce or assign any security or instrument.

The Bank agrees that the amount hereby guaranteed shall be due and payable to the IDMC Limited on serving us with a notice before expiry of Bank Guarantee requiring the payment of the amount and such notice shall be deemed to have been served on the Bank either by actual delivery thereof to the Bank or by dispatch thereof to the Bank by registered post at the address of the Bank.

In order to give full effect to the provisions of this guarantee the Bank thereby waives all rights inconsistent with the above provisions and which the Bank might otherwise as a guarantor be entitled to claim and enforce.

The guarantee shall remain in force until _____ and the Bank undertakes to renew the Bank Guarantee provided the request is made by the bidder before the expiry of Bank Guarantee.

Notwithstanding anything stated hereinbefore:(I) our liability under this guarantee is restricted to Rs. _____ (Rupees _____ _____ only) (ii) The bank guarantee shall remain in force till_____ ___ and (iii) The bank is liable to pay the guarantee amount or any part thereof under this bank

guarantee only if the IDMC Limited serves upon the Bank a written claim or demand on or before_____.

Place

Signature

Date:

Bank Seal

Bank Code no.

Note :

(i) Bidders should ensure that the seal and code no. of signatory is put by the Bankers, before submission of the Bank guarantees.

(ii) The value of stamp duty should be minimum Rs. 100 or as per latest stamp act of Local State Government, from where the bank guarantee is issued.

Bank Guarantee to secure advance

(to be executed on stamp paper of appropriate value - usually Rs. 100/-)

Currency: INR / EURO / USD	Amount in figures		
Amount in words			
Date of execution		Date up to when in force/ Date of expiry	
Date of Claim/ Demand (up to 365 days beyond the date of expiry)			
Name and address of beneficiary	IDMC Limited, Plot no. 124-128, GIDC Estate, Vithal Udyognagar, District Anand, Gujarat -388121		
Name and address of the vendor and/ or service provider (i.e. purchaser of the bank guarantee from the bank)			

THIS deed of guarantee made on this _____ day of _____, 2023 between _____ (name of the bank issuing this guarantee), herein after called 'the bank', on the first part and _____ (hereinafter referred to as 'vendor and/ or service provider in relation to IDMC Limited' and 'purchaser in relation to the bank' respectively) on the second part.

WHEREAS, the purchaser of the bank guarantee has been engaged by IDMC Limited as a vendor and/ or service provider for _____ (e.g. design, manufacture and supply of equipment or installation/ testing/ commissioning/ job work/ preventive maintenance/ break-down maintenance/ consulting or advising services as envisaged in purchase order(s)/ contract(s) _____ dated _____) which is required to be supplied/ provided latest by _____ (dd/mm/yyyy) in pursuance of the said purchase order(s)/ contract(s)

WHEREAS, IDMC Limited is required to pay the vendor and/ or service provider a sum of Rs. _____ (Rupees _____only) against submission of this bank guarantee towards part value of _____ (description of goods and/ or services) ordered to be manufactured/ supplied/ provided under the said purchase order(s)/ contract(s);

AND WHEREAS, at the request of the vendor and/ or service provider, the bank has agreed to guarantee the refund of the said amount, in case the aforesaid goods and/ or services do not deliver to the satisfaction of IDMC Limited as per the terms and conditions of the said purchase order(s)/ contract(s).

NOW THIS DEED OF GUARANTEE DOES WITNESSETH AS UNDER:

1. That in consideration of IDMC Limited having agreed to pay an advance of Rs. _____ (Rupees _____) to the vendor, the bank does hereby irrevocably guarantee and indemnify that if the vendor and/ or service provider fails to supplies/ provides to IDMC Limited the goods and/ or services as per the details, terms and conditions contained in the said purchase order(s)/ contract(s), *supra*, the Bank shall, without demur, repay and indemnify IDMC Limited within seven (7) working days all such advances paid by IDMC Limited to the vendor and/ or service provider as the bank may be called upon to pay subject to a ceiling of Rs. _____ (Rupees _____);
2. That the guarantee furnished herein shall be realised and discharged the moment the vendor and/ or service provider supplies/ provides the equipment to the satisfaction of IDMC Limited, as per the details, terms and conditions contained in the said purchase order(s)/ contract(s);

3. That the bank shall not question any of the details, terms and conditions contained in the said purchase order(s)/ contract(s), *supra*, including but not limited to the amount of consideration agreed upon between IDMC Limited and the vendor and/ or service provider for the purposes of determining its acceptance of liabilities under this bank guarantee and forthwith accept the demand of IDMC Limited to determine this bank guarantee;

4. That at the written request of either IDMC Limited or the vendor and/ or service provider, the bank shall renew this bank guarantee before it's date of expiry.

5. That the Bank agrees that the amount hereby guaranteed shall be immediately due and payable to IDMC on serving the bank with a notice before the date of expiry or date of claim/ demand, whichever is earlier. The claim can be lodged by IDMC limited up to 365 days beyond the date of expiry or extended date of expiry.

6. This Bank Guarantee shall be subject to the law as applicable in India.

7. Notwithstanding anything stated herein before:

   a. The Bank's liability under this guarantee is restricted to Rs._____/-(Rupees_____ only);

   b. This guarantee shall remain in force till _____and;

   c. The Bank is liable to pay the guaranteed amount or any part thereof under this bank guarantee only if IDMC Limited serves upon the Bank a written claim/ demand on or before_____ (Date of Claim/ Demand) including 365 days of grace period from date of expiry.

IN WITNESS WHEREOF, the bank has signed on this _____ day of _____, 2024.

Signature of Bank Manager

4.0 Form of Bank Guarantee for Retention Money (on Non-judicial Stamp Paper of Rs. 100 minimum or as per stamp act of local state Govt.)

Bank Guarantee no. Date:

This deed of guarantee made this _____ day of _____ (two thousand _____) by_____ (Name and the address of the Bank), hereinafter referred to as "the Bank", which express where the context and the meaning so require, include its legal representatives, successors and assignees of the bank and IDMC Limited, (hereinafter referred to as the IDMC Limited) which expression shall unless repugnant to the context and the meaning thereof include its legal representative, successors and assignees.

WHEREAS the IDMC Limited has placed its Contract order bearing no. _____ dated _____ on (name and address of the party) hereinafter called the Contractor, for the construction of_____ _____ _____

AND WHEREAS the IDMC Limited has agreed to pay to the Contractor the retention money i.e. **5% of the value of the Contract** on submission of a Bank guarantee of equal amount, which will be kept valid up to _____.

In consideration of the IDMC Limited having agreed to pay to the Contractor Rs._____ (Rupees_____ _____ only) being the retention money we (the Bank), hereby undertake and guarantee to make repayment to the IDMC Limited of the said amount without any demur or any part thereof which does not become payable to the Contractor by the IDMC Limited in accordance with and subject to the terms and conditions of the said Contract. The Bank further undertakes not to revoke this guarantee during its currency except with the previous consent of the IDMC Limited in writing and this guarantee shall be a continuous and irrevocable guarantee up to a sum of Rs. _____ (Rupees _____ _____ _____ only).

The Bank shall not be discharged or released from this guarantee by any arrangement between the Contractor and the IDMC Limited with or without the consent of the Bank or any alterations in the obligations of the parties or by an indulgence, forbearance shown by the IDMC Limited to the Contractor and the same shall not prejudice or restrict remedies against the Bank nor shall the same in any event be a ground of defence by the Bank against the IDMC Limited. We (name of bank) do hereby undertake to pay an amount

equal to Rs. _____ being the amount due and payable under this guarantee without any demur, merely on a demand from the IDMC Limited stating that the amount claimed is due to the IDMC Limited. In case, the IDMC Limited puts-forth a demand in writing on the bank for the payment of amount in full or in the part against this bank guarantee, the bank shall consider that such demand by itself is conclusive evidence and proof that the contractor has failed in compliance with the terms and conditions stipulated by IDMC Limited in the contract and payment shall be made to IDMC Limited without raising any dispute regarding the reasons for any such lapse/ failure on the part of the contractor.

This guarantee shall be in addition to and without prejudice to any other securities or remedies which the IDMC Limited may have or hereinafter possess in respect of the works executed or intended to be executed and the IDMC Limited shall be under no obligation to marshal in favour of the bank any such securities or funds or assets that the IDMC Limited may be entitled to receive or have a claim upon and the IDMC Limited at its absolute discretion may vary, exchange, renew, modify or refuse to complete to enforce or assign any security or instrument.

The Bank agrees that the amount hereby guaranteed shall be due and payable to the IDMC Limited on IDMC Limited's serving us with a notice before expiry of Bank Guarantee requiring the payment of the amount and such notice shall be deemed to have been served on the Bank either by actual delivery thereof to the Bank or by dispatch thereof to the Bank by registered post at the address of the said Bank.

We, _____, undertake to renew the bank guarantee provided the request for renewal is made by the contractor before the expiry of bank guarantee.

In order to give full effect to the provisions of this guarantee the Bank hereby waives all rights inconsistent with the above provisions and which the Bank might otherwise as guarantor be entitled to claim and enforce.

Notwithstanding anything stated herein before : (I) our liability under this guarantee is restricted to Rs. _____ (Rupees _____ _____ only), (ii) The guarantee shall remain in force till _____ _____and (iii) The Bank is liable to pay the guarantee amount or any part thereof under the bank guarantee only if the IDMC Limited serves upon the Bank a written claim or demand on or before_____.

Place | Signature

Date | Bank Seal

Bank Code no.

Note:

1: Contractor should ensure that the seal and code no. of signatory is put by the Bankers, before submission of the Bank guarantees.

2: The value of stamp duty should be minimum Rs. 100 or as per latest stamp act of Local State Government from where the Bank Guarantee is issued.

5.0 Format of Solvency Certificate (On the letter head of issuing bank)

Ref: Date:

FORMAT OF SOLVENCY CERTIFICATE FROM THE NATIONALISED / SCHEDULED BANK / FOREIGN BANKS OPERATING IN INDIA

This is to certify that to the best of our knowledge & information M/s. / Shri _____ having the address as per bank records as _____,

a customer of our bank is respectable and can be rated as good for any engagement upto a limit of Rs._____ (Rupees _____).

The certificate is issued without any guarantee and responsibility on behalf of the bank or any of its Officers.

Date_____ (Signature)

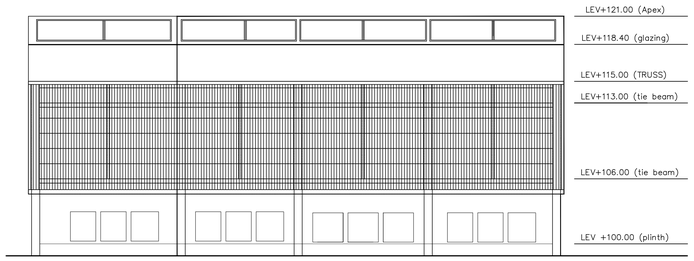
(Name & designation of the officer with address of Bank & its branch code)

(Bank's Official Rubber Stamp)

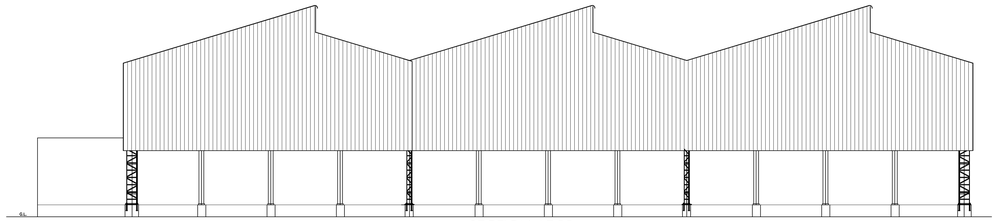
SECTION – X

SCHEDULE OF QUANTITIES

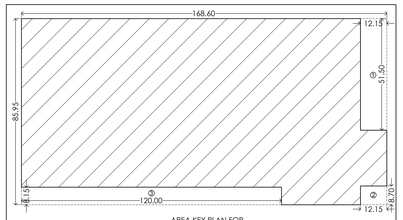
REFUBISHMENT OF ROOFING STEEL STRUCTURE AT NHEC, TALEGAON, PUNE, MAHARSTRA					
BILL OF QUANTITY					
Item No	**Item Description**	**Unit**	**Quantity**	**Unit Rate (Excl GST)**	**Amount (Excl GST)**
1.00	Dismantling trusses, rafters, purlins etc. of steel work for every additional span ofone metre or part thereof beyond 10 metres steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge.	Kg	8704.00		
2.00	Supply and fabrication of roof truss with MS Angle, channel etc. as per design. 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	32400.00		
3.00	Providing & Fixing of colour coated 0.55 mm standing seam galvalume sheet in roofing including 30% transperent sheet, all tools and tackels, accessories as directed by Engineer Incharge.	Sq.M	6850.00		
4.00	Providing & Fixing of colour coated 0.55 mm standing seam galvalume sheet in cladding including all tools and tackels, accessories as directed by Engineer Incharge	Sq.M	1015.00		
5.00	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
5.03	Aluminium Ventilation/louvers	Sq.M	40.00		
6.00	Providing and installation of rolling shutter fully automating with remote control	Sq.M	150.00		
7.00	Providing and fixing in steel sheet roofing Wind operated approved make 600 mm dia Turbo – ventilators/roof extractors with sky light, made from rotating heads having turbine blades of hi grade aluminium, top and neck of stainless steel 304 grade, steel bearing with dust proof bearing housing or GFP Pushing instead of bearing, UV stabilised non-coloured translucent 3mm thick FRP moulded one piece construction (monolithic) venturi dome and corrugated base sheet (similar FRP sheets 3 mm thick UV resistant) of appropriate size having the profile matching with existing roof sheet with double action natural ventilation system powered by natural flow of air, boosts /extracts the hot and contaminated air / gases, obnoxious fumes, bad odour outside for healthy and improved environment inside Godowns including cutting the roof if necessary, fixing the Turbo ventilator as per drawing with the roof sheets including all fittings and fasteners as per manufacturer's specification, making the joints water proof to prevent leakage in roof . encluding p& fabricating and fixing FRP SHEET DOM as per design & details etc complete as directed	No	40.00		
8.00	Painting of existing structure including cleaning of surface and making it smooth, appliying redoxide and than one coat of primer and two coat of synthetic paint of approved make at all heights, all tools & tackles etc all complete as directed by Engineer Incharge	Sq.M	4000.00		
				Total Basic Amount	
				GST 18%	
				Total Amount	



NORTH SIDE ELEVATION
SCALE: 1:100

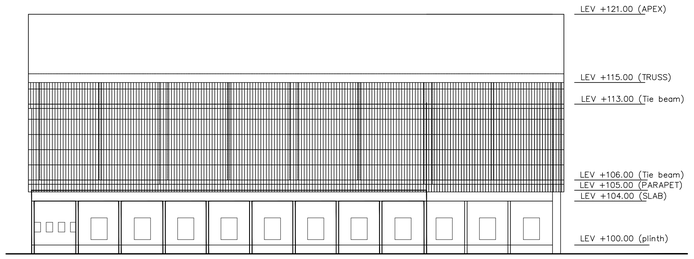


SECTION AT BB
SCALE: 1:100

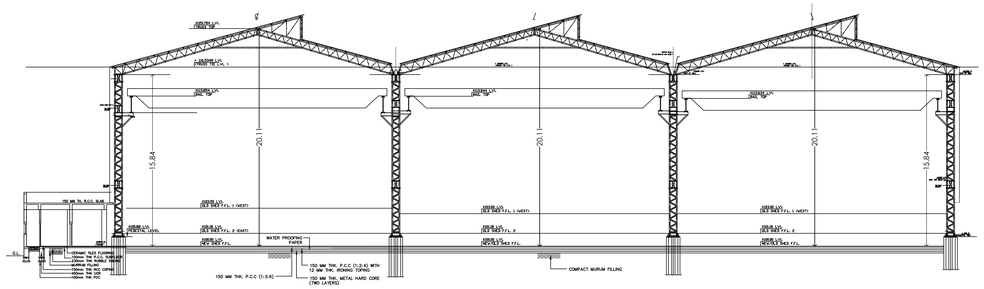


AREA KEY PLAN FOR
GROUND FLOOR PLAN

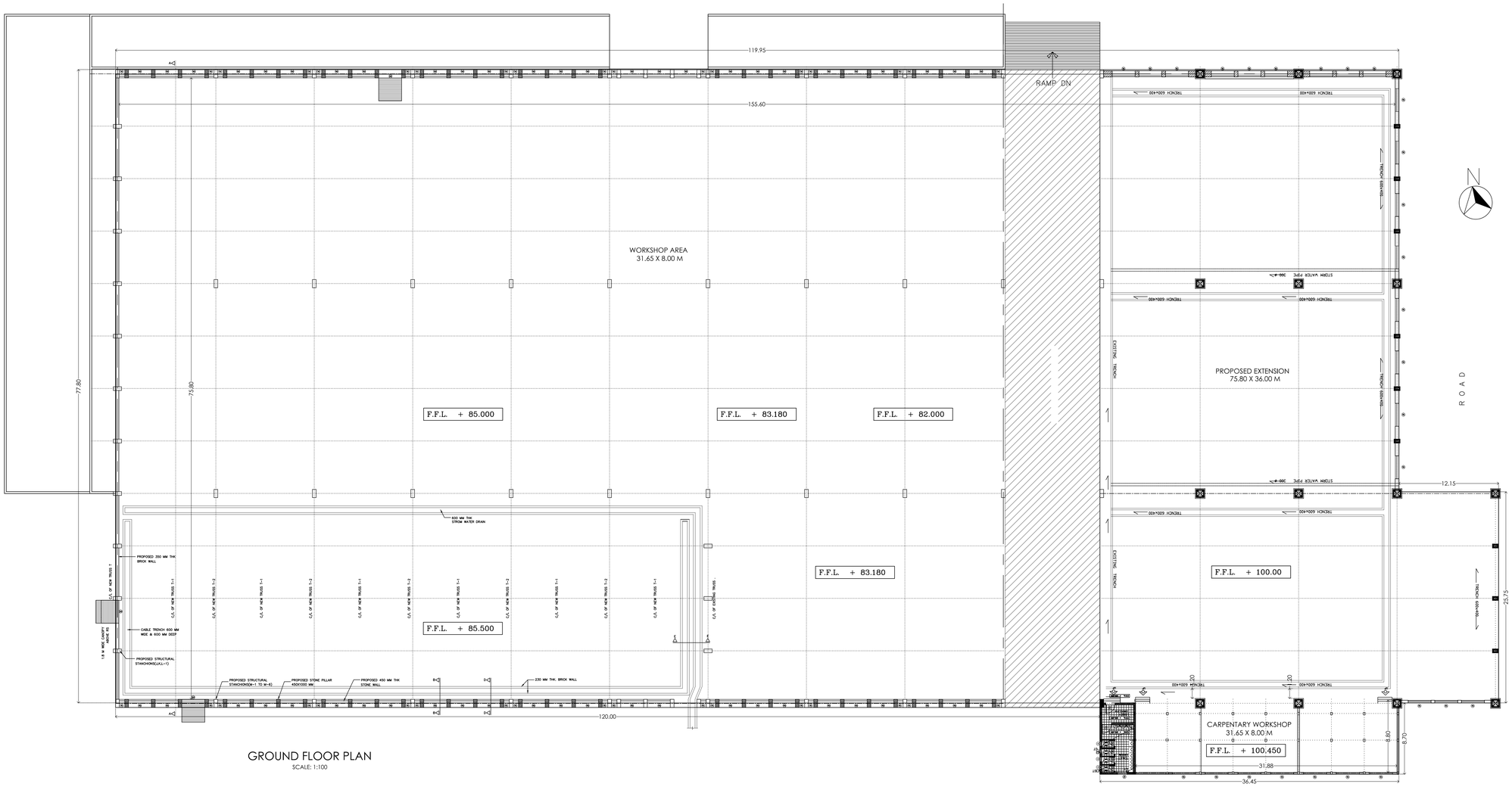
AREA CALCULATION FOR GROUND FLOOR PLAN
AREA OF BLOCK = 168.60 X 85.95 = 14491.17 SQ.M.
DEDUCTIONS 1) 12.15 X 51.50 = 625.73
2) 12.15 X 8.70 = 105.70
3) 120.00 X 8.15 = 978.00
TOTAL DEDUCTIONS = 1709.43 SQM
AREA OF BLOCK - TOTAL DEDUCTIONS
14491.17 - 85.95 = 364.65 SQ.M.
NET B/UP OF GROUND FLOOR = 364.65 SQ.M.



SOUTH SIDE ELEVATION
SCALE: 1:100



SECTION AT AA
SCALE: 1:100



GROUND FLOOR PLAN
SCALE: 1:100

STAMP OF APPROVAL

SHED

P R O F O R M A - A

AREA STATEMENT		SQ.M.
1)	AREA AS PER CTS EXTRACT (AREA OF TRAGULATION METHOD)	175.00
3)	ALLOWABLE B/UP AREA 50%	87.50
4)	GROUND FLOOR PLAN	32.81
5)	FIRST FLOOR PLAN	83.27
6)	SECOND FLOOR PLAN	50.20
7)	TOTAL BUILT UP AREA	166.28
8)	FSI CONSUMED	0.95

F.S.I.STATEMENT — SQ.M.

FLOORS	FLOOR AREA	BALC.AREA PERM.	BALC.AREA PROP.	BALC.AREA EXC.	TOTAL AREA
GROUND	32.81	-NIL-	-NIL-	----	32.81
FIRST	83.27	14.13	13.73	----	83.27
SECOND	50.20	11.05	5.77	----	50.20
EX.BALC.					
TOTAL	166.28	25.18	19.50	----	166.28

BALCONY AREA STATEMENT

(i) PERMISSIBLE BALCONY PERIMETER	25.18
(ii) PROPOSED BALCONY PERIMETER	19.50

TENEMENT STATEMENTS

PERMISSIBLE TENEMENT 300.00 X 250/HECT	=
PROPOSED TENEMENT	=
TOTAL TENEMENT	=

DOOR & WINDOWS SCHEDULED

DOOR	SIZE	WINDOW	SIZE
D1	0.90X2.10	W1	1.50X1.20
D2	0.90X2.10	W2	1.20X0.90
D3	0.75X2.10	W3	1.20X1.20
FD-1	1.80X2.10	V1	0.60X0.90
RS-1	2.70X2.40		

LEGEND

PLOT BOUNDARY	BLACK LINE	DRAINAGE LINE	RED DOTTED
PROPOSED WORK	RED LINE	WATER LINE	BLACK LINE
EXIST WORK	YELLOW LINE	RD. WIDENING LINE	BLACK HATCH

DESCRIPTION OF PROPOSAL AND PROPERTY

PROPOSED FIRST FLOOR EXTENTION OF CANTEEN
BUILDING AT TALEGAON DHABHDE
TAL.MAVAL, DIST. PUNE.

NAME AND SIGN. OF THE OWNER OR PAH.

NATIONAL HEAVY ENGG. CO. OP. LTD.

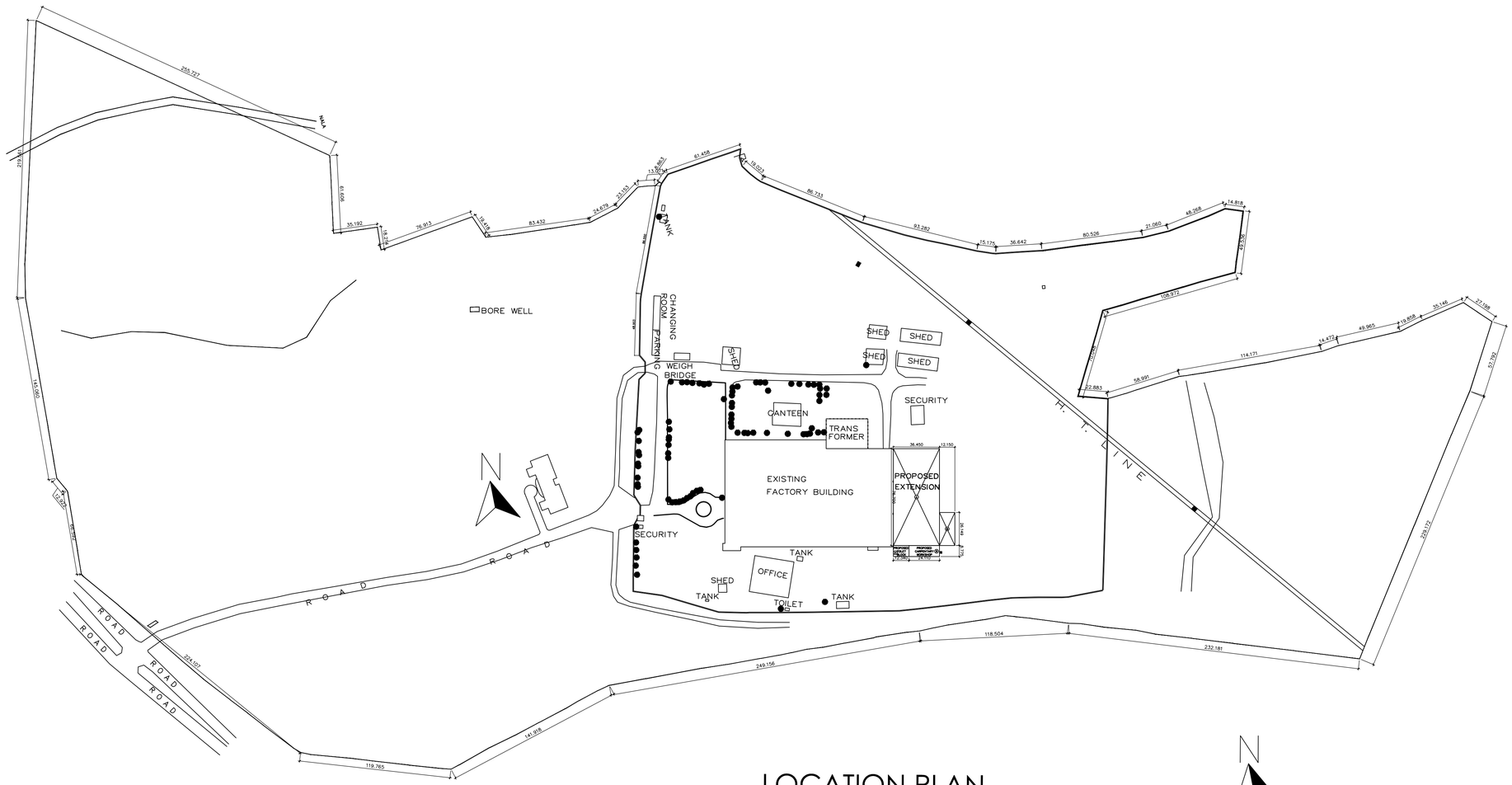
TALEGAON DHABHADE

SIGNATURE OF OWNER OR PAH.

NORTH	DATE	SCALE	DRN.BY	
AS SHOWN	17/10/2012	1 : 100	KIRAN	1/1

ATUL HAMPE & ASSOCIATES
ARCHITECTURAL CONSULTANT
PLOT NO 98,SHREE GANESH COLONY
NEAR JIJAMATA CHOWK
TALEGAON DABHADE, PUNE
PH.NO.9970079009
EMAIL- atulhampe@rediffmail.com
atul_19_hampe@yahoo.com

STAMPS & SIGH



LOCATION PLAN
(SCALE-1:100)

STAMP OF APPROVAL

AREA STATEMENT		SQ.M.
1)	TOTAL AREA OF LAND (AREA OF PLOT RESERVED FOR)	4,23,000.00
2)	STAFF HOUSING	36,376.00
3)	AREA UNDER T.P. ROADS	70,827.00
4)	AREA UNDR NALLA	15,897.00
6)	AREA UNDER GREEN BELT	19011.00
7)	TOTAL DEDUCTIONS	1,42,111.00
8)	PERMISSIBLE BUILT UP PLINTH AREA 50%	1,40,444.00
9)	TOTAL PLINTH AREA	12026.17

F.S.I.STATEMENT — SQ.M.

BUILDING	PLOT AREA	PERMISIBLE AREA (50%)	GROUND FLOOR	FIRST FLOOR	TOTAL AREA
OFFICE BUILDING	4,23,000	1,40,444.0	362.51	362.51	362.51
FACTORY BUILDING			362.51	----	362.51
CANTEEN BUILDING			362.51		
TOTAL	725.02		725.02	725.02	

LEGEND

PLOT BOUNDARY	BLACK LINE	DRAINAGE LINE	RED DOTTED
PROPOSED WORK	RED LINE	WATER LINE	BLACK LINE
EXIST WORK	YELLOW LINE	RD. WIDENING LINE	BLACK HATCH

DESCRIPTION OF PROPOSAL AND PROPERTY

PROPOSED SITE PLAN FOR NATIONAL HEAVY ENGG. CO. OP. LTD. AT TALEGAON DHABHDE TAL.MAVAL, DIST. PUNE.

NAME AND SIGN. OF THE OWNER OR PAH.

NATIONAL HEAVY ENGG. CO. OP. LTD.

TALEGAON DHABHADE

SIGNATURE OF OWNER OR PAH.

NORTH	DATE	SCALE	DRN.BY	
AS SHOWN	17/10/2012	1 : 100	KIRAN	1/1

ATUL HAMPE & ASSOCIATES

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STAMPS & SIGH