

TENDER DOCUMENT

for

“Development of Park at the site of Assam Khadi and Village Industries Board, Hengrabari, Guwahati”

NIT No: GMDA/DEV/118/2017/4

Dated- 03 /01/2018

**GUWAHATI METROPOLITAN DEV. AUTHORITY
BHANGAGARH, GUWAHATI- 05**



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NOTICE INVITING TENDERS

1. The Chief Executive Officer, Guwahati Metropolitan Development Authority (GMDA) invites the item rate bids through E-Procurement system from CPWD/APWD registered Class 1(A) or equivalent contractors for the following work:

a	Name of Work	“Development of Park at the site of Assam Khadi and Village Industries Board, Hengrabari, Guwahati
b	Value of Work	Rs.11,10,25,000.00 (Eleven Crore Ten Lakhs Twenty five Thousand) only
c	Sale of Tender Document	Tender Document can only be downloaded from https://assamtenders.gov.in portal from 16:00 hours of 06/01/2018
d	Cost of Tender Document	Rs. 10,000.00
e	Completion Period	8 (Eight) Months
f	Earnest Money to be deposited	Rs. 22,20,500.00
g	Receipt of bids	Up to 15:00 hours on 29/01/2018
h	Date, Time & Venue of opening of Technical Bid.	At 11.00 hours on 30/01/2018 in the office of CEO, GMDA through portal.
i	Seek clarification end date	Up to 16.00 hours on 19/01/2018
j	Last date of reply of Queries	22/01/2018

2. To qualify for the award of the contract, the bidder should fulfill the following qualification requirements in addition to the other qualification requirements given in the tender documents:

Item No.	Qualification requirement
a	Annual Financial Turnover in any of the last three financial years should be at least Rs. 335.00 Lakhs.
b	Contractor/ Bidder should have completed similar works as prime Contractor during last 10 years upto 31.12.2017 in which applications are invited should be either of the following. I) Three similar completed works costing not less than the amount equal to 40% of the tender value

	<p>II) Two similar completed works costing not less than the amount equal to 50% of the tender value</p> <p>III) One similar completed works costing not less than the amount equal to 80% of the tender value.</p>
c	Total Liquid Assets and Credit Facility should be at least Rs.222.00 Lakhs.

- (*) The minimum value of items at Sl. No. (a) & (c) above shall be considered at 2016-2017 Price Level. Weightage of 5% per year over the previous years will be given on compounding basis.
- Tender Documents can only be downloaded from <https://assamtenders.gov.in> portal from 16:00 hours of 06/01/2018 to 19/01/2018 and the tender document fee of Rs. 10,000.00 only is to be deposited along with tender documents in the form of BANK DRAFT in favour of CEO, GMDA payable at GUWAHATI through portal only. Tender Documents shall not be sold directly in the office of CEO, GMDA and shall not be sent by Post/ Courier.
 - The bids submitted by the bidders who do not meet the qualification requirements as required or whose Bids (both Technical and Price) are not complete are not valid. Earnest Money of the tenders containing restricted validity of Bids is liable to be forfeited. The bids not accompanied by Earnest Money Deposit shall be rejected.
 - Issue/ download of Tender Documents to/ by the bidder will not automatically mean that the bidder is qualified for the Award of the Contract. The bidders will be required to fulfill the Qualification Criteria given in the Tender Document before being considered eligible for the Award of Contract. No Condition/ Deviation which is either additional or in modification of the tender conditions shall be included in the bid submitted by the bidder. If the bid contains any such conditions or deviations from the tender conditions, the bid will be rejected.
 - Bids duly completed in all respects along with the requisite amount of Earnest Money Deposit shall be received upto the date of receipt as given above.
Original copy of the following documents must be submitted on or before the technical bid opening.
i) Cost of Bid. ii) Bid security or EMD.
 - In case of any discrepancies, the provisions of this Tender Notice shall take precedence over all other bidding documents.
 - The Bidders are required to upload their tender in <https://assamtenders.gov.in> portal only. GMDA shall not be held responsible for the delay, if any, in the non-receipt of the same.

9. Bidders are required to go through the procedure as specified in <https://assamtenders.gov.in> portal to upload the Bid document.
10. GMDA does not bind itself to accept lowest or any other bid and reserves the right to reject lowest or any other bid or all the bids and accept any bid either in the whole or in part or split up the work between more than one bidders without assigning any reason whatsoever. The bidder shall be bound to execute the same at the quoted rates.
11. In case the date of opening of the tender as mentioned above is declared to be a holiday, the bids shall be opened on the next working day at the same time and venue.
12. Any revisions, clarifications, addenda, corrigenda, time extensions etc. to this tender will be posted on <https://assamtenders.gov.in> portal only. Bidders should regularly visit the website to keep themselves updated.

Sd/-
Chief Executive Officer
Guwahati Metropolitan Dev. Authority
Bhangagarh, Guwahati- 781 005

SECTION 2
Instructions to Bidders

Table of Clauses

A.	General	D.	Submission of Bid
1	Scope of Bid	19	Sealing & Marking of Bids
2	Source of Funds	20	Deadline for Submission of Bids
3	Eligible Bidders	21	Late Bids
4	Qualification of the Bidder	E.	Bid Opening
5	One Bid per Bidder	22	Bid Opening
6	Cost of Bidding	23	Process to be Confidential
7	Site Visit	24	Clarification of Bids and Contracting the Employer
B.	Bidding Documents and Evaluation	25	Examination of bids and Determination of Responsiveness
8	Content of Bidding Documents	26	Correction of Errors
9	Clarification of Bidding Documents	27	Evaluation and Comparison of Bids
10	Amendment of Bidding Documents	28	Price Preference
C.	Preparation of Bids	F.	Award of Contract
11	Language of Bid	29.	Award Criteria
12	Documents Comprising the Bid	30	Employer's Right to Accept any Bid and to Reject any or all Bids
13	Bid Prices	31	Notification of Award
14	Currencies of Bid and Payment	32	Performance Security
15	Bid Validity	33	Advances
16	Earnest Money	34	Corrupt or Fraudulent Practices
17	Alternative Proposals by Bidders		
18	Format and Signing of Bid		

A. General

1. Scope of Bid.

- 1.1 The Employer as defined in the Appendix to ITB invites bids for the “**Development of Park at the site of Assam Khadi and Village Industries Board, Hengrabari, Guwahati**” as described in these documents and referred to as “the works”. The name and identification number of the works is provided in the Appendix to ITB. The bidders may submit bids for the works detailed in the table given in the Notice Inviting Tender.
- 1.2 The successful Bidder will be expected to complete the Works by the Intended Completion Date specified in the Part I General Conditions of Contract.
- 1.3 Throughout these documents, the terms “bid” and “tender” and their derivatives (bidder/ renderer, bid/ tender, bidding/ tendering, etc.) are synonymous.

2. Source of Funds: State Govt. Fund

3. Eligible Bidders: Registered contractors of CPWD/APWD class I(A) or equivalent category of any Govt. Department having experience in Civil Construction involving Electrical, Landscaping/Horticulture works.

- 3.1 This Invitation for Bids is open to all bidders as defined in the Appendix to ITB. Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices by the Central Government, the State Government or any public undertaking, autonomous body, authority by whatever name called under the Central or the State Government.

4. Qualification of the Bidder

- 4.1 All bidders shall provide in Section 3, Forms of Bid and Qualification Information, a preliminary description of the proposed work method and schedule, including drawings and charts, as necessary.

- 4.2 All bidders shall include the following information and documents with their bids in Section 3, Qualification Information unless otherwise stated in the Appendix to ITB:

- (a) Copies of original documents defining the constitution or legal status, place of registration, and principal place of business; written power of attorney of the signatory of the Bid to commit the Bidder;
- (b) Total monetary value of any construction works performed for each of the last five years;
- (c) Experience in works of a similar nature and size for each of the last five years, and details of works in progress or contractually committed with certificates from the concerned officer of the rank of Executive Engineer or equivalent;
- (d) Evidence of ownership of major items of construction equipment named in Clause 4 (i) of ITB or evidence of arrangement of possessing them on hire/ lease/ buying as defined therein.
- (e) Details of the technical personnel proposed to be employed for the Contract having the qualifications defined in Clause 4 (ii) of ITB for the construction.
- (f) Reports on the financial standing of the Bidder, such as profit and loss statements and auditor's reports for the past three years;
- (g) Evidence of access to line(s) of credit and availability of other financial resources/ facilities (20 percent of the contract value) certified by banker (the certificate being not more than 3 months old.)
- (h) Authority to seek references from the Bidder's bankers;
- (i) Information regarding any litigation or arbitration during the last five years in which

the Bidder is involved, the parties concerned, the disputed amount, and the matter;

- (j) Proposals for subcontracting the components of the Works for construction, aggregating to not more than **20%** of the Contract Price;
- (k) The proposed methodology and programme of construction, backed with equipment and material planning and deployment, duly supported with broad calculations and Quality Management Plan proposed to be adopted, justifying their capability of execution and completion of the work as per technical specifications and within the stipulated period of completion.

4.3 Bids from joint venture are not allowed.

4.4 A. To qualify for award of the Contract, each bidder should have in the last three years:

Achieved in any one year a minimum financial turnover volume of construction work of at least Rs. 335.00 Lakhs. The turnover will be indexed at the rate of 5% for a year.

Satisfactorily completed similar works as prime Contractor during last 7 years upto 31.10.2017 in which applications are invited should be either of the following.

- I) Three similar completed works costing not less than the amount equal to 40% of the tender value.
- II) Two similar completed works costing not less than the amount equal to 50% of the tender value.
- III) One similar completed works costing not less than the amount equal to 80% of the tender value.

4.4 B. (a) Each bidder must produce:

- (i) An affidavit that the information furnished with the bid documents is correct in all respects; and
- (ii) Such other certificates as defined in the Appendix to ITB. Failure to produce the certificates shall make the bid non-responsive.

(b) Each bidder must demonstrate:

- (i) Availability machineries & equipments for construction work, either owned, or on lease or on hire, of the key equipment stated in the Appendix to ITB .
- (ii) Availability for construction work for this work of technical personnel as stated in the Appendix to ITB.

4.4. C. To qualify for a package of contracts made up of this and other contracts for which bids are invited in the Notice Inviting Tender, the bidder must demonstrate having experience and resources sufficient to meet the aggregate of the qualifying criteria for the individual contracts.

4.5.1 Sub-Contractors' experience and resources shall not be taken into account in determining the bidder's compliance with the qualifying criteria except to the extent stated in 4.4 A above.

4.5.2 Bidders who meet the minimum qualification criteria will be qualified only if their available bid capacity for construction work is equal to or more than the total bid value. The available bid capacity will be calculated as under:

Assessed Available Bid capacity = $(A*N*M - B)$ where

- A = Maximum value of civil engineering works executed in any one year during the last five years (updated to the price level of the last year at the rate of 8 percent a year) taking into account the completed as well as works in progress.
- N = Number of years prescribed for completion of the works for which bids are invited (period up to 6 months to be taken as half-year and more than 6 months as one year).
- M = 2
- B = Value, at the current price level, of existing commitments and on- going works to be completed during the period of completion of the works for which bids are invited.

Note: The statements showing the value of existing commitments and on- going works as well as the stipulated period of completion remaining for each of the works listed should be countersigned by the Engineer in charge, not below the rank of an Executive Engineer or equivalent.

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

- (i) Made misleading or false representations in the forms, statements, affidavits and attachments submitted in proof of the qualification requirements; and/or
- (ii) Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.
- (iii) Participated in the previous bidding for the same work and had quoted unreasonably high or low bid prices and could not furnish rational justification for it to the Employer.

4.7 Contractors/ Firms having experience in execution of work in the North East region of India will be given preference.

5. **One Bid per Bidder**

5.1 Each Bidder shall submit only one Bid for one work. Bidder who submits more than one Bid will cause the proposals with the Bidder's participation to be disqualified.

6. **Cost of Bidding**

6.1 The Bidder shall bear all costs associated with the preparation and submission of his Bid, and the Employer will, in no case, be responsible or liable for those costs.

7. **Site Visit**

7.1 The Bidder, at his own cost, responsibility and risk, is encouraged to visit, examine and familiarize himself with the Site of Works and its surroundings including source of earth, water, road aggregates etc. and obtain all information that may be necessary for preparing the Bid and entering into a contract for execution of the Works. He/ She may contact the person whose contact details are given in the Appendix to ITB.

7.2 Some demolition work may be required for clearing the site for actual execution. No payment will be made for demolition of existing structures, hence bidders are encouraged to visit, examine the site before quoting their rates.

B. Bidding Documents

8. Content of Bidding Document:

8.1 The set of bidding documents comprises of the documents listed below and addenda issued in accordance with Clause 10 of ITB.

1. Notice Inviting Tender
2. Instructions to Bidder
3. Qualification Information
4. Conditions of Contract
5. Part I General Conditions of Contract, and Contract Data
6. Part II Special Conditions of Contract
7. Specifications
8. Drawings
9. Bill of Quantities
10. Form of Bid

8.2 One copy of each of the volumes I & II will be downloaded from Website by the bidder. Documents to be furnished by the bidder in compliance to section 2 will be prepared by him and furnished as (refer clause 12).

8.3 The bidder is expected to examine carefully all instructions, conditions of contract, contract data, forms, terms and specifications, bill of quantities, forms and drawings in the Bid Document. Failure to comply with the requirements of Bid Documents shall be at the bidder's own risk. Pursuant to clause 25 hereof, bids, which are not substantially responsive to the requirements of the Bid Documents, shall be rejected.

9. Clarification of Bidding Documents.

9.1 A Prospective Bidder requiring any clarification of the bidding documents may notify at the Employer's address indicated in the Notice Inviting Bids. The Employer will respond to any request for clarification received earlier than 7 days prior to the deadline for submission of bids. Copies of the Employer's response will be forwarded to all purchasers of the bidding documents, including a description of the inquiry, but without identifying its source

10. Amendment of Bidding Documents

10.1 Before the deadline for submission of bids, the Employer may modify the bidding documents by issuing addenda.

10.2 Any addendum thus issued shall be a part of the bidding documents and will be uploaded in <https://assamtenders.gov.in> portal

10.3 To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer shall extend, as necessary, the deadline for submission of bids, in accordance with Clause 20.2 of ITB.

C. Preparation of Bids

11. All documents relating to the Bid shall be in the English Language.

11.1 All documents relating to the Bid shall be in the language specified in the Appendix to ITB.

12. Documents Comprising the Bid

12.1 The Bid submitted by the Bidder shall be in two separate parts:

Part I. This shall be named Technical Bid and shall comprise of:

- I. Bid Security in the form specified in Clause 16.
- II. Qualification information, supporting documents as specified in Clause 4 of ITB.
- III. Certificates, Undertaking, Affidavits as specified in Section 2 & 3.
- IV. Any other information/documents required to be completed and submitted by bidders, as specified in the Appendix to ITB,
- V. Undertaking that the bid shall remain valid for the period specified in Clause 15.1
- VI. Acceptance/ non acceptance of Dispute Review Expert proposed in Clause 36.

Part II. The financial Bid is to be submitted online only. The Financial Bid shall comprise of:

- (i) Form of Bid as specified in Section 8;
- (ii) Priced bill of quantities for items specified in Section 7;

12.2 Each part shall be uploaded in separate folder as instructed in clause 19 of ITB

12.3 The following documents, which are not submitted with the bid, will be deemed to be part of the bid.

Section	Particulars
1.	Notice Inviting Bids
2.	Instructions to Bidders
3.	Qualification Information
4.	Conditions of Contract (Part I General Conditions of Contract, and Contract Data; Part II Special Conditions of Contract)
5.	Specifications
6.	Drawings

13. Bid Prices

13.1 The Contract shall be for the whole Works, as described in Clause 1.1 of ITB, based on the priced Bill of Quantities submitted by the Bidder.

13.2 The Bidder shall adopt the Item Rate Method as specified in the Appendix to ITB I; only the same option is allowed to all the Bidders. Item Rate Method requires the bidder to quote rates and prices for all items of the Works described in the Bill of Quantities. The items for which no rate or price is entered by the Bidder will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities. Corrections, if any, shall be made by crossing out, initialing, dating and rewriting.

13.3 All duties, taxes, royalties and other levies payable by the Contractor under the Contract, or for any other cause, shall be included in the rates, prices, and total Bid price submitted

by the Bidder.

- 13.4 The rates and prices quoted by the Bidder shall be fixed for the duration of the Contract and shall not be subject to adjustment.

14. Currencies of Bid

- 14.1 The unit rates and the prices shall be quoted by the bidder entirely in Indian Rupees.

15. Bid Validity

- 15.1 Bids shall remain valid for a period of 120 days after the deadline date for bid submission specified in Clause 20 of ITB. A bid valid for a shorter period shall be rejected by the Employer as non-responsive.
- 15.2 In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the bidders may extend the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing or by cable. A bidder may refuse the request without forfeiting his Earnest Money. Bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his earnest money for a period of the extension, and in compliance with Clause 16 of ITB in all respects.

16. Earnest Money

- 16.1 The Bidder shall furnish, as part of the Bid, Earnest Money, in the amount specified in the Appendix to ITB.
- 16.2 The Earnest Money shall, at the Bidder's option, be in the form of Fixed Deposit Receipt or Bank Guarantee of a scheduled commercial bank, issued in favour of the name given in the Appendix to ITB. The Fixed Deposit Receipt shall be valid for six months or more after the last date of receipt of bids. Other forms of Earnest Money acceptable to the Employer are stated in the Appendix to ITB.
- 16.3 Any bid not accompanied by an acceptable Earnest Money, unless exempted in terms given in the Appendix to ITB, shall be rejected by the Employer as non-responsive.
- 16.4 The Earnest Money of unsuccessful bidders will be returned within 28 days of the end of the Bid validity period specified in Clause 15.1 of ITB.
- 16.5 The Earnest Money of the successful Bidder will be discharged when the Bidder has signed the Agreement and furnished the required Performance Security.
- 16.6 **The Earnest Money may be forfeited:**
- a. if the Bidder withdraws the Bid after bid opening (technical bid) during the period of Bid validity;
 - b. in the case of a successful Bidder, if the Bidder fails within the specified time limit to
 - i. Sign the Agreement; and/or
 - ii. Furnish the required Performance Security.

17. Alternative Proposals by Bidders

- 17.1 Bidders shall submit offers that comply with the requirements of the bidding documents, including the Bill of Quantities and the basic technical design as indicated in the drawings and specifications. Alternative proposals will be rejected as non-responsive.

18. Format and Signing of Bid

- 18.1 The Bidder shall submit one set of the bid comprising of the documents as described in Clause 12 of ITB.

18.2 The Bid shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Bidder, pursuant to Clause 4.2 of ITB. All pages of the Bid shall be signed by the person or persons signing the Bid.

18.3 The Bid shall contain no overwriting, alterations or additions, except those to comply with instructions issued by the Employer, or as necessary to correct errors made by the Bidder, in which case such corrections shall be made by scoring out the cancelled portion, writing the correction and initialing and dating it by the person or persons signing the Bid.

D. Submission of Bids

19. Up Loading of Bids

19.1 The Bidder shall up load their “Technical Bid” and “Price Bid” in separate folder as specified in the portal <https://assamtenders.gov.in>.

Technical Bid: To be opened on 30/01/2018 at 11:00 hours

Financial Bid: Financial bid of the technically qualified bidders to be opened with the approval of the Employer.

The contents of the Technical and Financial Bids shall be as specified in clause 12.1 of ITB.

19.2 It is mandatory to submit original copy of following documents on or before the opening of Technical Bid in a single envelop.

i) Cost of Bid ii) Bid security or EMD

19.3 Bidders are requested to submit the hard copy of Technical Bid in a sealed envelope before opening of the Technical Bid. However, submission of bid through portal will be only considered for opening.

20. Deadline for Submission of Bids

20.1 Complete Bids including Technical must be received by the Employer at the address specified in the Appendix to ITB not later than the date and time indicated in the Appendix to ITB.

20.2 The Employer may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 10.3 of ITB, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will then be subject to the new deadline.

21. Late Bids

21.1 Bid received by the Employer after the deadline prescribed in Clause 20 of ITB will be returned unopened to the Bidder.

E. Bid Opening and Evaluation

22. Bid Opening

22.1 The Employer will open the bids received through portal at the time and date specified in the Appendix to ITB. In the event of the specified date for the submission of bids being declared a holiday for the Employer, the Bids will be opened at the appointed time and location on the next working day.

22.2 The folder containing the technical bid shall be opened. The folder marked “cost of bidding document” will be opened first and if the cost of the bidding documents is not there, or incomplete, the remaining bid documents will not be opened, and bid will be rejected.

22.3 In all other cases, the amount of Earnest Money, forms and validity shall be announced. Thereafter, the bidders’ names and such other details as the Employer may consider appropriate, will be announced by the Employer as per provision of portal.

- 22.4 The Employer will prepare minutes of the Bid opening, including the information disclosed through portal.
- 22.5 Evaluation of the technical bids with respect to bid security, qualification information and other information furnished in Part I of the bid in pursuant to Clause 12.1 of ITB, shall be taken up and completed within ten working days of the date of bid opening, and a list will be drawn up of the responsive bids whose financial bids are eligible for consideration.
- 22.6 The Employer shall inform the bidders, whose technical bids are found responsive, date, time and place of opening as stated in the Appendix to ITB. In the event of the specified date being declared a holiday for the Employer, the bids will be opened at the appointed time and location on the next working day through they or their representative, may attend the meeting of opening of financial bids.
- 22.7 At the time of the opening of the 'Financial Bid', the names of the bidders whose bids were found responsive will be announced through portal. The financial bids of only these bidders will be opened. The remaining bids will be unopened. The responsive bidders' names, the Bid prices, the total amount of each bid, and such other details as the Employer may consider appropriate will be announced by the Employer at the time of bid opening. Any Bid price which is not read out and recorded, will not be taken into account in Bid Evaluation
- 22.8 The Employer shall prepare the minutes of the opening of the Financial Bids.

23. Process to be Confidential

- 23.1 Information relating to the examination, clarification, evaluation, and comparison of bids and recommendations for the award of a contract shall not be disclosed to bidders or any other persons not officially concerned with such process until the award to the successful Bidder has been announced. Any attempt by a Bidder to influence the Employer's processing of bids or award decisions may result in the rejection of his Bid

24. Clarification of Bids and Contacting the Employer

- 24.1 No Bidder shall contact the Employer on any matter relating to its bid from the time of the bid opening to the time the contract is awarded.
- 24.2 Any attempt by the bidder to influence the Employer's bid evaluation, bid comparison or contract award decision may result in the rejection of his bid.

25. Examination of Bids and Determination of Responsiveness

- 25.1 During the detailed evaluation of "Technical Bids", the Employer will determine whether each Bid
- (a) meets the eligibility criteria defined in Clauses 3 and 4;
 - (b) has been properly signed;
 - (c) is accompanied by the required securities; and
 - (d) is substantially responsive to the requirements of the bidding documents. During the detailed evaluation of the "Financial Bids", the responsiveness of the bids will be further determined with respect to the remaining bid conditions, i.e., priced bill of quantities, technical specifications and drawings.
- 25.2 A substantially responsive "Financial Bid" is one which conforms to all the terms, conditions, and specifications of the bidding documents, without material deviation or reservation. A material deviation or reservation is one

- (a) which affects in any substantial way the scope, quality, or performance of the Works;
- (b) which limits in any substantial way, inconsistent with the bidding documents, the Employer' rights or the Bidder' obligations under the Contract; or
- (c) whose rectification would affect unfairly the competitive position of other bidders presenting substantially responsive bids.

25.3 If a "Financial Bid's not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

26. Correction of Errors

26.1 Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:

- a. where there is a discrepancy between the rates in figures and in words, the rate in words will govern; and
- b. where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern.

26.2 The amount stated in the Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, the Bid will be rejected, and the Earnest money shall be forfeited in accordance with Clause 16.6(b) of ITB.

27. Evaluation and Comparison of Bids

27.1 The Employer will evaluate and compare only the bids determined to be substantially responsive in accordance with Clause 25 of ITB.

27.2 In evaluating the bids, the Employer will determine for each Bid the evaluated Bid price by adjusting the Bid price by making correction, if any, for errors pursuant to Clause 26 of ITB.

27.3 If the Bid of the successful Bidder is seriously unbalanced in relation to the Engineer estimate of the cost of work to be performed under the contract, the Employer may require the Bidder to produce detailed price analyses for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed.

After evaluation of the price analyses, the Employer may require that the amount of the performance security set forth in Clause 32 of ITB be increased at the expense of the successful Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract. The amount of the increased performance security shall be decided at the sole discretion of the Employer, which shall be final, binding and conclusive on the bidder.

If the Bid of the successful Bidder is seriously unbalanced in relation to the Engineer' estimate of the cost of routine maintenance of works to be performed for five years under the contract, the Employer may require the Bidder to produce detailed price analyses for routine maintenance. After evaluation, the Employer may require that the amount of the performance security set forth in Clause 32 be increased at the expense of the successful Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract. The amount of the increased performance security shall be decided at the sole discretion of the Employer, which shall be final, binding and conclusive on the bidder.

28. Price Preference

28.1 There will be no price preference to any bidder.

F. Award of Contract

29. Award Criteria

- 29.1 Subject to Clause 31 of ITB, the Employer will award the Contract to the Bidder whose Bid has been determined:
- i. to be substantially responsive to the bidding documents and who has offered the lowest evaluated Bid price, provided that such Bidder has been determined to be (a) eligible in accordance with the provisions of Clause 3 of ITB, and (b) qualified in accordance with the provisions of Clause 4 of ITB; and
 - ii. to be within the available bid capacity adjusted to account for his bid price which is evaluated the lowest in any of the packages opened earlier than the one under consideration.

30. Employer's Right to Accept any Bid and to Reject any or all Bids

- 30.1 Notwithstanding Clause 29 above, the Employer reserves the right to accept or reject any Bid, and to cancel the bidding process and reject all bids, at any time prior to the award of Contract, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Employer's action.

31. Notification of Award and Signing of Agreement

- 31.1 The bidder whose Bid has been accepted will be notified of the award by the Employer prior to expiration of the Bid validity period by cable, telex or facsimile confirmed by registered letter. This letter (hereinafter and in the Part I General conditions of Contract called the "Letter of Acceptance") will state the sum that the Employer will pay to the Contractor in consideration of the execution and completion of the Works, by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").
- 31.2 The notification of award will constitute the formation of the Contract, subject only to the furnishing of a performance security in accordance with the provisions of Clause 32.
- 31.3 The Agreement will incorporate all agreements between the Employer and the successful Bidder. It will be signed by the Employer and the successful Bidder after the performance security is furnished. Upon the furnishing by the successful Bidder of the Performance Security, the Employer will promptly notify the other Bidders that their Bids have been unsuccessful.

32. Performance Security

- 32.1 Within 10 (ten) days after receipt of the Letter of Acceptance, the successful Bidder shall deliver to the Employer a Performance Security of five percent of the Contract Price, for the period 1 year time for completion of works plus additional security for unbalanced Bids in accordance with Clauses 27.3 of ITB and Clause 46 Part I of General Conditions of Contract and sign the contract.
- 32.2 The performance security shall be either in the form of a Bank Guarantee or fixed deposit Receipts, in the name of the Employer, from a Scheduled commercial bank.
- 32.3 Failure of the successful Bidder to comply with the requirements of Clause 32.1 shall constitute sufficient grounds for cancellation of the award and forfeiture of the Earnest Money.

33. Advance payment of Security.

- 33.1 The Employer will provide Mobilization Advance and Advance against the security of equipment as provided in Part I General Conditions of Contract.

34. Corrupt or Fraudulent Practices

The Employer requires the bidders/Contractors to strictly observe the laws against fraud and corruption in force in India, namely, Prevention of Corruption Act, 1988.

Appendix to ITB

The Employer should fill out this Appendix to ITB before issuing the bidding documents. The insertions should correspond to the information provided in the Invitation for Bids.

Instructions to Bidders

Clause Reference (1.1)

The Employer is Chief Executive Officer, GMDA, Guwahati-5

The Works is: “Development of Park at the Khadi and Village Industries Board, Hengrabari, Guwahati”

1. Identification No. of the works is: NIL
2. The State is: Assam.
3. Other certificates required with the bid are:

(i) The key equipments for Building works

Name of equipment	Qty in No
• Cube Testing Machine	1
• Sieve Analysis (Complete Kit)	1
• Concrete Hammer	2
• Concrete Mixer	2
• Jack Hammer	1
• Water Tanker	1
• Generator Set	1
• Concrete vibrator	4
• Concrete Drilling Machine	2
• Welding Machine	2
• Water Pump	1
• Cube Mould	12
• Earth Compactor and rammer	1
• Excavator	1
• Dumper/Tipper	2

(ii) The Number of Technical personnel, Qualifications and Experience will be as follows:

A. The Technical Personnel are: [Cl. 9.1]

Technical Personnel	Number	Experience in civil Works
A. Degree Holder in Civil Engineering	1(one)	5 (Five) Years
B. Diploma Holder in Civil Engineering	2(two)	3 (Three) Years
C. Site Supervisor	2(two)	2 (two) Years
D. Horticulturist (B.Sc. Horticulture)	1 (One)	5 (Five) Years

4. The contact person is: Amitabh Barthakur
Designation: Project Engineer, GMDA
Address: GMDA office, Bhangagarh, Guwahati-5
Ph. No. (mobile) 09864031196
6. Deleted
7. Language of the bid is: English
8. Bids may be submitted only in Item Rate Method through portal.
9. The amount of Earnest Money shall be Rs. 22,20,500.00 (Rupees Twenty Two Crore Twenty Lakhs five Hundred Twenty) only. The amount of Earnest Money for SC,ST,OBC and UGE shall be Rs 11,10,250.00 (Rupees Eleven Lakhs Ten Thousand Two Hundred Fifty) only.
10. Fixed Deposit Receipt must be drawn:
In favour of: CEO, GMDA
Other acceptable forms of Earnest Money pledged in favour of CEO, GMDA is Demand Draft.
11. (A) The deadline for submission of Technical bid shall be:
Time: 15:00 hours
Date: 29/01/2018
(B) The deadline for submission of Financial bid shall be:
Time: 15:00 hours
Date: 29/01/2018
12. The date, time and place for opening of the Technical Bids are
(A) Technical Bid
Time: 11:00 hours
Date: 30/01/2018
Place: Office of CEO, GMDA through portal.
(B) Financial Bid (For qualified bidders)
Time: Bidders qualified in Technical Bid will be intimated later on.
Place: GMDA Conference hall.
13. The amount and validity period of the Performance Guarantee is:
Amount: 5.00 percent of the contract price.
Validity Period: Performance Security shall be valid for until a date 45 days after the expiry of defect liability period.

SECTION 3 Qualification Information

Notes on Form of Qualification Information

The information to be filled in by bidders in the following pages will be used for purposes of post-qualification as provided for in Clause 4 of the Instructions to Bidders. This information will not be incorporated in the Contract. Attach additional pages as necessary.

1. Individual Bidders

1.1	Constitution or legal status of Bidder Place of registration:	[attach copy]
1.2	Principal place of business: Power of attorney of signatory of Bid	[attach copy]
1.3	Total annual volume of civil engineering construction work executed and payments received in the last five years preceding the year in which bids are invited. (Attach certificate from Chartered Accountant)	[attach copy]
1.3.1	Work performed as prime Contractor (in the same name and style) on construction works of a similar nature (civil engineering works) and volume over the last five years. Attach certificate from the Engineer-in-charge	

Project Name	Name of Employer	Description of Work	Value of Contract	Contract No.	Date of Issue of Work Order	Stipulated date of completion	Actual Date of Completion	Remarks explaining reasons for delay if any

1.3.2 Information on Bid Capacity (works for which bids have been submitted and works which are yet to be completed) as on the date of this bid.

(A) Existing commitments and on-going construction works:

Description of Work	Place & State	Contract No & Date	Name & Address of Employer	Value of Contract (Rs. In Lakhs)	Stipulated period of completion	Value of works remaining to be completed (Rs. Lakhs) *	Anticipated Date of completion
1	2	3	4	5	6	7	8

* Enclose certificate(s) from Engineer(s)-in-charge for value of work remaining to be completed.

(B) Works for which bids already submitted:

Description of Work	Place & State	Name & Address of Employer	Estimated Value of Works (Rs. Lakhs)	Stipulated period of completion	Date when decision is expected	Remarks, if any

- 1.4 Availability of Major items of Contractor's Equipment proposed for carrying out the Works. List all information requested below. Refer also to Clause 4.2(d) and Clause 4.4 b (b) of the Instructions to Bidders.

Item of Equipment	Description, make, and age (Years), and capacity	Condition (new, good, poor) and number available	Owned, leased (from whom?), or to be purchased
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- 1.5 Qualifications of technical personnel proposed for the Contract. Refer also to Clause 4.32(e) of the Instructions to Bidders and Clause 9.1 of Part-1 General Conditions of Contract.

Position	Name	Qualification	Years of experience
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- 1.6 Proposed sub-contractors and firms involved for construction. Refer to Clause 7 of Part I General Conditions of Contract.

Sections of the Works	Value of Contract	Sub-contractor (name and address)	Experience in similar work
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- 1.7 Financial reports for the last five years: balance sheets, profit and loss statements, auditors' reports, etc. List below and attach copies.

- 1.8 Information on current litigation in which the Bidder is involved.

Name of Other party(s)	Cause of dispute	Litigation where (Court/arbitration)	Amount involved
------------------------	------------------	--------------------------------------	-----------------

- 1.9 Proposed Programme (work method and schedule). Descriptions, drawings, and charts as necessary, to comply with the requirements of the bidding documents.

SAMPLE FORMAT FOR EVIDENCE OF ACCESS TO OR AVAILABILITY OF CREDIT FACILITIES

BANK CERTIFICATE

This is to certify that M/S ----- is a reputed company with a good financial standing.

If the contract for the work, namely, _____ is awarded to the above firm, we shall be able to provide overdraft/credit facilities to the extent of Rs. _____ to meet their working capital requirements for executing the above contract.

Signature of Senior Bank Manager _____

Name of the Senior Bank Manager _____

Address of the Bank _____

Stamp of the Bank _____

Note: Certificate should be on the letter head of the bank.

FORM OF BANK GUARANTEE TOWARDS EARNEST MONEY
(ON NON – JUDICIAL PAPER OF APPROPRIATE VALUE IN THE NAME OF THE BANK)

To
Chief Executive Officer
GMDA

Name of the work: _____

Dear Sir/ Ma'am,

1. In consideration of Guwahati Metropolitan Development Authority (Hereinafter called GMDA) representing through its Chief Executive Officer having the Office at Guwahati, Assam having agreed to exempt M/s.....Hereinafter called "the said Contractor (s)" from the demand, under the terms and conditions of tender bid No.....datedfor (name of work).....(hereinafter called "the said tender) of Earnest money deposit for the due fulfillment by the said Contractor(s) of the terms and conditions contained in the said tender on production of a Bank Guarantee for Rs.....only, we(hereinafter referred to as the bank) at the request of M/s..... Contractor(s) do hereby undertake to pay to the GMDA an amount not exceeding Rs.....only against any loss or damage caused to suffered or would be caused to or suffered by the GMDA by reason of any breach by the said Contractor(s) of any of the terms & conditions contained in the said tender.
2. We,.....do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the GMDA stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the GMDA by reason of breach by the said contractor(s) of any of the terms & conditions contained in the said tender or by reason of the contractor(s) failure to deposit the security deposit for the work if selected in the tender. Any such demand made on the Bank shall be conclusive (as regards the amount due and payable by the Bank under this Guarantee). However; our liability under this guarantee shall be restricted to an amount not exceeding Rs..... (Rupees.....)only.
3. We, undertake to pay to the GMDA any money so demanded notwithstanding any dispute or dispute raised by the contractor(s)/supplier(s) in any suit or proceeding pending before any court of Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder the contractor(s)/supplier(s)/shall have no claim against us for making such payment.

4. We, _____ (name of the bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said tender and that it shall continue to be enforceable till all the dues of the GMDA under or by virtue of the said Tender have been fully paid and its claims satisfied or discharged or till the Chief Executive Officer, GMDA, certified that the terms and conditions of the said tender have fully and properly carried out by the said contractor(s) and accordingly discharges this guarantee is made on us in writing on or before....., we shall be discharged from all liability under this guarantee thereafter.

5. We,(name of the Bank) further agree with the GMDA that the GMDA shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said tender or to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the GMDA against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said tender and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance, act or omission on the part of the GMDA or any indulgence by the GMDA to the said contractor(s) or any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s) /supplier(s).
7. We, _____ (name of the bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the GMDA in writing.
8. Notwithstanding anything contained herein above our liability under this guarantee shall:
- a) be limited to a sum of Rs. _____ only.
 - b) stand completely discharged and all your rights under this guarantee shall stand extinguished if no claim or demand made upon us in writing on or before _____.

For _____
(indicate the name of bank)

Bank Guarantee No. _____

Date: _____

Section 4
Conditions of Contract
Part –I General Conditions of Contract

These conditions are subject to the variations and additions set out in Part II Special Conditions of Contract

A. General

1. Definitions

- 1.1.** Terms which are defined in the Contract Data are not also defined in the Conditions of Contract but keep their defined meanings. Capital initials are used to identify defined terms.

Bill of Quantities means the priced and completed Bill of Quantities forming part of the Bid.

Compensation Events are those defined in Clause 40 hereunder.

The Completion Date is the date of completion of the Works as certified by the Engineer, in accordance with Clause 48.1.

The Contract is the Contract between the Employer and the Contractor to execute, complete, the Works. It consists of the documents listed in Clause 2.3.

The Contract Data defines the documents and other information which comprise the Contract.

The Contractor is a person or corporate body whose Bid to carry out the Works, including routine maintenance, has been accepted by the Employer.

The Contractor's Bid is the completed bidding document submitted by the Contractor to the Employer.

The Contract Price is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.

Days are calendar days; months are calendar months.

A Defect is any part of the Works not completed in accordance with the Contract.

The Defects Liability Certificate is the certificate issued by Engineer, after the Defect Liability Period has ended and upon correction of Defects by the Contractor.

The Defects Liability Period is one years calculated from the Completion Date.

Drawings include calculations and other information provided or approved by the Engineer for the execution of the Contract.

The Employer is the party as defined in the Contract Data, who employs the Contractor to carry out the Works. The Employer may delegate any or all functions to a person or body nominated by him for specified functions.

The Engineer is the person named in the Contract Data (or any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Engineer) who is responsible for supervising the execution of the Works and administering the Contract.

Equipment is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.

The Initial Contract Price is the Contract Price listed in the Employer's Letter of Acceptance.

The Intended Completion Date is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is specified in the Contract Data. The Intended Completion Date may be revised only by the Engineer by issuing an extension of time.

Materials are all supplies, including consumables, used by the Contractor for incorporation in the Works.

Plant is any integral part of the Works that shall have a mechanical, electrical, electronic, chemical, or biological function.

The **Site** is the area defined as such in the Contract Data.

Site Investigation Reports are those that were included in the bidding documents and are reports about the surface and subsurface conditions at the Site.

Specification means the Specification of the Works included in the Contract and any modification or addition made or approved by the Engineer.

The **Start Date** is given in the Contract Data. It is the date when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.

A **Sub-Contractor** is a person or corporate body who has a Contract with the Contractor to carry out a part of the construction work in the Contract, which includes work on the Site.

Temporary Works are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.

A **Variation** is an instruction given by the Engineer, which varies the Works.

The **Works, as defined in the Contract Data**, are what the Contract requires the Contractor to construct, install, maintain, and turn over to the Employer.

2. Interpretation

2.1 In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Engineer will provide instructions clarifying queries about these Conditions of Contract.

2.2 **If sectional completion is specified in the Contract Data, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).**

2.3. The documents forming the Contract shall be interpreted in the following order of priority:

- (1) Agreement,
- (2) Notice to Proceed with the Work,
- (3) Letter of Acceptance,
- (4) Contractor's Bid,
- (5) Contract Data,
- (6) Special Conditions of Contract Part II,

- (7) General Conditions of Contract Part I,
- (8) Specifications,
- (9) Drawings,
- (10) Bill of Quantities, and
- (11) Any other document listed in the Contract Data.

3. Language and Law

- 3.1. The language of the Contract and the law governing the Contract are stated in the Contract Data.

4. Engineer's Decisions

- 4.1. Except where otherwise specifically stated, the Engineer will decide contractual matters between the Employer and the Contractor in the role representing the Employer. However, if the Engineer is required under the rules and regulations and orders of the Employer to obtain approval of some other authorities for specific actions, he will so obtain the approval.
- 4.2. Except as expressly stated in the Contract, the Engineer shall not have any authority to relieve the Contractor of any of his obligations under the contract.

5. Delegation

- 5.1. The Engineer, with the approval of the Employer, may delegate any of his duties and responsibilities to other people, after notifying the Contractor, and may cancel any delegation after notifying the Contractor.

5. Communications

- 6.1. Communications between parties that are referred to in the Conditions shall be effective only when in writing. A notice shall be effective only when it is delivered.

6. Subcontracting

- 7.1. **The Contractor may subcontract part of the construction work** with the approval of the Employer in writing, up to 20 percent of the contract price but will not assign the Contract. Subcontracting shall not alter the Contractor's obligations.

The Contractor shall not be required to obtain any consent from the Employer for:

- a. the sub-contracting of any part of the Works for which the Sub-Contractor is named in the Contract;
 - b. the provision for labour, or labour component.
 - c. the purchase of Materials which are in accordance with the standards specified in the Contract
- 7.2. Beyond what has been stated in clauses 7.1 and 7.2, if the Contractor proposes sub-contracting any part of the work during execution of the Works, because of some unforeseen circumstances to enable him to complete the Works as per terms of the Contract, the Employer will consider the following before according approval:
 - a. The Contractor shall not sub-contract the whole of the Works.
 - b. The Contractor shall not sub- contract any part of the Work without prior consent of the Employer. Any such consent shall not relieve the Contractor from any liability or

obligation under the Contract and he shall be responsible for the acts, defaults and neglects of any his sub-Contractor, his agents or workmen as fully as if they were the acts, defaults or neglects of the Contractor, his agents and workmen.

7.3. The Engineer should satisfy himself before recommending to the Employer whether

- a. the circumstances warrant such sub-contracting; and
- b. the sub-Contractor so proposed for the Work possess the experience, qualifications and equipment necessary for the job proposed to be entrusted to him in proportion to the quantum of Works to be sub-contracted.

8. Other Contractors

8.1. The Contractor shall cooperate and share the Site with other Contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of Other Contractors, as referred to in the Contract Data. The Contractor shall also provide facilities and services for them as described in the Schedule. The Employer may modify the Schedule of Other Contractors, and shall notify the Contractor of any such modification.

8.2. The Contractor should take up the works in convenient reaches as decided by the Engineer to ensure there is least hindrance to the smooth flow of traffic including movement of vehicles and equipment of other Contractors till the completion of the Works.

9. Personnel

9.1. The Contractor shall employ for the construction work the technical personnel named in the Contract Data or other technical persons approved by the Engineer. The Engineer will approve any proposed replacement of technical personnel only if their relevant qualifications and abilities are substantially equal to or better than those of the personnel stated in the Contract Data.

9.2. If the Engineer asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the Works in the Contract.

10. Employer's and Contractor's Risks

10.1. The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.

11. Employer's Risks

11.1 The Employer is responsible for the excepted risks which are (a) in so far as they directly affect the execution of the Works in the Employer's country, the risks of war, invasion, act of foreign enemies, rebellion, revolution, insurrection or military or usurped power, civil war, riot commotion or disorder (unless restricted to the Contractor's employees), natural calamities and contamination from any nuclear fuel or nuclear waste or radioactive toxic explosive, or (b) a cause due solely to the design of the Works, other than the Contractor's design.

12. Contractor's Risks

All risks of loss of or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract other than the excepted risks, referred to in clause 11.1, are the responsibility of the Contractor.

13. Insurance

- 13.1 The Contractor at his cost shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date to the date of completion, in the amounts and deductibles stated in the Contract Data for the following events which are due to the Contractor's risks:
- a. loss of or damage to the Works, Plant and Materials;
 - b. loss of or damage to Equipment;
 - c. loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and
 - d. Personal injury or death.
- 13.2. Insurance policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the Start Date. All such insurance shall provide for compensation to be payable in Indian Rupees to rectify the loss or damage incurred.
- 13.3. (a) The Contractor at his cost shall also provide, in the joint names of the Employer and the Contractor, insurance cover from the date of completion to the end of defect liability period, in the amounts and deductibles stated in the Contract Data for the following events which are due to the Contractor's risks:
(b) Personal injury or death.
- 13.4. (a) Insurance policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the completion date/ start date. All such insurance shall provide for compensation to be payable in Indian Rupees.
- 13.5. Alterations to the terms of insurance shall not be made without the approval of the Engineer.
- 13.6. Both parties shall comply with any conditions of the insurance policies.

14. Site Investigation Reports

- 14.1. The Contractor, in preparing the Bid, may rely on any Site Investigation Reports referred to in the Contract Data, supplemented by any other information available to him, before submitting the bid.

15. Queries about the Contract Data

- 15.1. The Engineer will clarify queries on the Contract Data.

16. Contractor to Construct the Works

- 16.1. The Contractor shall construct, and install and maintain the Works in accordance with the Specifications and Drawings.

17. The Works to Be Completed by the Intended Completion Date

- 17.1. The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the Programme submitted by the Contractor, as updated with the approval of the Engineer, and complete them by the Intended Completion Date.

18. Approval by the Engineer

The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Engineer, who is to approve them.

- 18.1. The Contractor shall be responsible for design of Temporary Works.
- 18.2. The Engineer's approval shall not alter the Contractor's responsibility for design of the

Temporary Works.

18.3. The Contractor shall obtain approval of third parties to the design of the Temporary Works, where required.

18.4. All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Engineer before their use.

18. Safety

19.1. The Contractor shall be responsible for the safety of all activities on the Site.

20. Discoveries

20.1. Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Engineer of such discoveries and carry out the Engineer's instructions for dealing with them.

21. Possession of the Site

21.1. The Employer shall give complete possession of the Site to the Contractor fifteen days in advance of the construction programme.

22. Access to the Site

22.1. The Contractor shall allow access to the Site and to any place where work in connection with the Contract is being carried out, or is intended to be carried out to the engineer and any person/persons/agency authorized by:

- a. The Engineer
- b. The Employer
- c. Guwahati Development Department, Government of Assam.

23. Instructions

The Contractor shall carry out all instructions of the Engineer, which comply with the applicable laws where the Site is located.

24. Dispute Redressed System

24.1. If any dispute or difference of any kind what-so-ever shall arises in connection with or arising out of this Contract or the execution of Works or maintenance of the Works there under, whether before its commencement or during the progress of Works or after the termination, abandonment or breach of the Contract, it shall, in the first instance, be referred for settlement to the competent authority, described along with their powers in the Contract Data, above the rank of the Engineer. The competent authority shall, within a period of forty-five days after being requested in writing by the Contractor to do so, convey his decision to the Contractor. Such decision in respect of every matter so referred shall, subject to review as hereinafter provided, be final and binding upon the Contractor. In case the Works is already in progress, the Contractor shall proceed with the execution of the Works, including maintenance thereof, pending receipt of the decision of the competent authority as aforesaid, with all due diligence.

24.2. Either party will have the right of appeal, against the decision of the competent authority, to the Standing Empowered Committee if the amount appealed against exceeds rupees one lakh.

24.3. The composition of the Empowered Standing Committee will be:

- I. One official member, Chairman of the Standing Empowered Committee, not below the rank of Additional Secretary to the State Government;
 - II. One official member not below the rank of chief engineer; and
 - III. One non-official member who will be technical expert of Chief Engineer's level selected by the Contractor from a panel of three persons given to him by the Employer.
- 24.4 The Contractor and the Employer will be entitled to present their case in writing duly supported by documents. If so requested, the Standing Empowered Committee may allow one opportunity to the Contractor and the Employer for oral arguments for a specified period. The Empowered Committee shall give its decision within a period of ninety days from the date of appeal, failing which the contractor can approach the appropriate court for the resolution of the dispute.
- 24.5 The decision of the Standing Empowered Committee will be binding on the Employer for payment of claims up to five percent of the Initial Contract Price. The Contractor can accept and receive payment after signing as "in full and final settlement of all claims". If he does not accept the decision, he is not barred from approaching the courts. Similarly, if the Employer does not accept the decision of the Standing Empowered Committee above the limit of five percent of the Initial Contract Price, he will be free to approach the courts applicable under the law.
- 25. Arbitration**
- 25.1 In view of the provision of the clause 24 on Dispute Redressal System, it is the condition of the Contract that there will be no arbitration for the settlement of any dispute between the parties.

B. Time Control

- 26.1 Within the time stated in the Contract Data, the Contractor shall submit to the Engineer for approval a Programme showing the general methods, arrangements, order, and timing for all the activities in the Works, along with monthly cash flow forecasts for the construction of works.
- 26.2 An update of the Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining Works, including any changes to the sequence of the activities.
- 26.3 The Contractor shall submit to the Engineer for approval an updated Programme at intervals no longer than the period stated in the Contract Data. If the Contractor does not submit an updated Programme within this period, the Engineer may withhold the amount stated in the Contract Data from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Programme has been submitted.
- 26.4 The Engineer's approval of the Programme shall not alter the Contractor's obligations. The Contractor may revise the Programme and submit it to the Engineer again at any time. A revised Programme shall show the effect of Variations and Compensation Events.

27. Extension of the Intended Completion Date

- 27.1. The Engineer shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining Works, which would cause the Contractor to incur additional cost.

- 27.2. The Engineer shall decide whether and by how much time to extend the Intended Completion Date within 21 days of the Contractor asking the Engineer for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information. If the Contractor has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date.

28. Delays Ordered by the Engineer

- 28.1. The Engineer may instruct the Contractor to delay the start or progress of any activity within the Works. Delay/delays totaling more than 30 days will require prior written approval of the Employer.

29. Management Meetings

- 29.1 The Engineer may require the Contractor to attend a management meeting. The business of a management meeting shall be to review the plans for the Works.
- 29.2 The Engineer shall record the business of management meetings and provide copies of the record to those attending the meeting. The responsibility of the parties for actions to be taken shall be decided by the Engineer either at the management meeting or after the management meeting and stated in writing to all those who attended the meeting.

C. Quality Control

30. Identifying Defects

- 30.1 The Engineer shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Engineer may instruct the Contractor to search for a Defect and to uncover and test any work that the Engineer considers may have a Defect.

31. Tests

- 31.1. The contractor shall be solely responsible for:
- a. Carrying out the mandatory tests prescribed in the BIS codes
 - b. For the correctness of the test results, whether preformed in his laboratory or elsewhere.
- 31.2 If the Engineer instructs the Contractor to carry out a test not specified in the Specification/ to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples.

32. Correction of Defects noticed during the Defect Liability Period

- 32.1.1 The Engineer shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion and ends after one year. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
- 32.1.2 Every time notice of Defect/Defects is given, the Contractor shall correct the notified Defect/Defects within the length of time specified by the Engineer's notice.

33. Uncorrected Defects

- 33.1 If the Contractor has not corrected a Defect pertaining to the Defect Liability Period under clause 32.1.1 and clause 32.2.2 of these Conditions of Contract, to the satisfaction of the Engineer, within the time specified in the Engineer's notice, the Engineer will assess the cost of having the Defect corrected, and the Contractor will pay this amount, on correction of the Defect.

D. Cost Control

34. Bill of Quantities

- 34.1 The Bill of Quantities shall contain items for the construction to be done by the Contractor.
- 34.2 The Bill of Quantities is used to calculate the Contract Price. The Contractor is paid for the quantity of the work done at the rate in the Bill of Quantities for each item for the drainage work.

35. Variations

- 35.1 The Engineer shall, having regard to the scope of the Works and the sanctioned estimated cost, have power to order, in writing, Variations within the scope of the Works he considers necessary or advisable during the progress of the Works. Such Variations shall form part of the Contract and the Contractor shall carry them out and include them in updated Programmes produced by the Contractor. Oral orders of the Engineer for Variations, unless followed by written confirmation, shall not be taken into account.

36. Payments for Variations

- 36.1 If rates for Variation items are specified in the Bill of Quantities, the Contractor shall carry out such work at the same rate. This shall apply for Variations only up to the limit prescribed in the Contract Data. If the Variation exceeds this limit, the rate shall be derived under the provisions of clause 36.3 for quantities (higher or lower) exceeding the deviation limit.
- 36.2 If the rates for Variation are not specified in the Bill of Quantities, the Engineer shall derive the rate from similar items in the Bill of Quantities.
- 36.3. If the rate for Variation item cannot be determined in the manner specified in Clause 36.1 or 36.2, the Contractor shall, within 14 days of the issue of order of Variation work, inform the Engineer the rate which he proposes to claim, supported by analysis of the rates. The Engineer shall assess the quotation and determine the rate based on prevailing market rates within one month of the submission of the claim by the Contractor. As far as possible, the rate analysis shall be based on the standard data book and the current schedule of rates of the district public works division. The decision of the Engineer on the rate so determined shall be final and binding on the Contractor.

37. Cash Flow Forecasts

- 37.1 When the Programme is updated, the Contractor shall provide the Engineer with an updated cash flow forecast.

38. Payment Certificates

- 38.1 The payment to the contractor will be as follows for construction work:
- 38.1 (a) The Contractor shall submit to the Engineer fortnightly/ monthly statements of the value of the work executed less the cumulative amount certified previously supported with detailed measurement of the items of work executed.
- 38.2 (b) The Engineer shall check the Contractor's fortnightly/ monthly statement within 14 days and certify the amount to be paid to the Contractor.
- 38.3 (c) The value of work executed shall be determined, based on measurements by the Engineer.
- 38.4 (d) The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.

- 38.5 (e) The value of work executed shall also include the valuation of Variations and Compensation Events.
- 38.6 (f) The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.
- 38.7(g) The final bill shall be submitted by the contractor within one month of the actual date of completion the work; otherwise the Engineer's certificate of the measurement and of the total amount payable for work accordingly shall be final and payment made accordingly within a period of sixty days as far as possible.
- 38.8 (i) If the bill for a month is not received from the contractor by the 10th day of the succeeding month or/ and if the Engineer has not certified that the contractor has carried out the maintenance work for defects brought to his notice under clause 32 within specified period, no payment will become due to the Contractor for that month.

39. Payments

- 39.1 Payments shall be adjusted for deductions for advance payments, security deposit, other recoveries in terms of the Contract and taxes at source, as applicable under the law. The Engineer shall pay the Contractor the amounts he had certified within 15 days of the date of each certificate.
- 39.2 The Employer may appoint another authority, as specified in the Contract Data (or any other competent person appointed by the Employer and notified to the contractor) to make payment certified by the Engineer.
- 39.3 Items of the Works for which no rate or price has been entered in the Bill of Quantities, will not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.

40. Compensation Events

- 40.1 The following shall be Compensation Events unless they are caused by the Contractor:
- a. The Engineer orders a delay or delays exceeding a total of 30 days.
 - b. The effects on the Contractor of any of the Employer's Risks.
- 40.2 If a Compensation Event would prevent the Works being completed before the Intended Completion Date, the Intended Completion Date shall be extended. The Engineer shall decide whether and by how much the Intended Completion Date shall be extended.

41. Tax

- 41.1 The rates quoted by the Contractor shall be deemed to be inclusive of the sales and other levies, duties, royalties, cess, toll, taxes of Central and State Governments, local bodies and authorities that the Contractor will have to pay for the performance of this Contract. The Employer will perform such duties in regard to the deduction of such taxes at source as per applicable law.

42. Price Adjustment

- 42.1 Contract price shall be adjusted for increase or decrease in rates and price of steel and cement in accordance with the following principles and procedures and as per formula given in the contract data:

- (a) The price adjustment shall apply for the work done from the start date given in the contract data up to end of the initial intended completion date or extensions granted by the Engineer and shall not apply to the work carried out beyond the stipulated time for reasons attributable to the contractor.
- (b) The price adjustment shall be determined during each quarter from the formula given in the contract data.
- (c) Following expressions and meanings are assigned to the work done during each quarter.

R= Total value of work done during the quarter. It would include the value of materials on which secured advance has been granted, if any, during the quarter, less the value of materials in respect of which the secured advance has been recovered, if any during the quarter. It will exclude value for works executed under variations for which price adjustment will be worked separately based on the terms mutually agreed.

- 42.2 To the extent that full compensation for any rise or fall in costs to the contractor is not covered by the provisions of this or other clauses in the contract, the unit rates and prices included in the contract shall be deemed to include amounts to cover the contingency of such other rise or fall in costs.

43. Security Deposit

- 43.1 The Employer shall retain security deposit of five percent of the amount from each payment due to the Contractor until Completion of the whole of the Works.
- 43.2 The security deposit and the performance security aggregating to 10 percent of the Contract price will be released to the Contractor when the Defect Liability period is over, and the Engineer has certified that the Defects, if any, notified by the Engineer to the Contractor before the end of this period have been corrected; and that the contractor satisfactorily did the routine maintenance of roads.

44. Liquidated Damages

- 44.1 The Contractor shall pay liquidated damages to the Employer at the rate per week or part thereof stated in the Contract Data for the period that the Completion Date is later than the Intended Completion Date. Liquidated damages at the same rate shall be withheld if the Contractor fails to achieve the milestones prescribed in the Contract Data. However, in case the Contractor achieves the next milestone the amount of the liquidated damages already withheld shall be restored to the Contractor by adjustment in the next payment certificate. The total amount of liquidated damages shall not exceed the amount defined in the Contract Data. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's other liabilities.
- 44.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Engineer shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate.

45. Deleted

46. Securities

- 46.1 The Performance Security equal to five percent of the contract price and additional security for unbalanced bids shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in the form given in the Contract Data and by a scheduled commercial bank. The Performance Security shall be valid until a date 45 days from the date of expiry of Defect Liability Period and the additional security for unbalanced bids shall be valid until a date 45 days from the date of issue of the certificate of completion.

47. Cost of Repairs

- 47.1 Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at his cost if the loss or damage arises from the Contractor's acts or omissions.

E. Finishing the Contract

48. Completion

- 48.1 The Contractor shall request the Engineer to issue a certificate of Completion of the Works, and the Engineer will do so upon deciding that the Works is completed.

49. Taking Over

- 49.1 The Employer shall take over the Site and the Works within seven days of the Engineer's issuing a certificate of Completion. The Contractor shall continue to remain responsible for its routine maintenance during the maintenance period.

50. Final Account

- 50.1 The Contractor shall supply the Engineer with a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Engineer shall issue a Defects Liability Certificate and certify any final payment that is due to the Contractor within 42 days of receiving the Contractor's account if it is correct and complete. If it is not, the Engineer shall issue within 42 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Engineer shall decide on the amount payable to the Contractor and issue a payment certificate within 28 days of receiving the Contractor's revised account. The payment will be made within 14 days thereafter.

51. Operating and Maintenance Manuals

- 51.1 The "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the Contract Data.
- 51.2 If the Contractor does not supply the Drawings and/or manuals by the dates stated in the Contract Data, or they do not receive the Engineer's approval, the Engineer shall withhold the amount stated in the Contract Data from payments due to the Contractor.

52. Termination

- 52.1 The Employer may terminate the Contract if the Contractor causes a fundamental breach of the Contract.
- 52.2 Fundamental breaches of Contract shall include, but shall not be limited to, the following:
- a. The Contractor stops work for 28 days when no stoppage of work is shown on the current Programme and the stoppage has not been authorized by the Engineer;
 - b. The Contractor is declared as bankrupt or goes into liquidation other than for approved reconstruction or amalgamation;
 - c. The Engineer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;

- d. The Contractor does not maintain a Security, which is required;
 - e. The Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as defined in clause 44.1;
 - f. Contractor fails to provide insurance cover as required under clause 13
 - g. If the Contractor, in the judgment of the Employer, has engaged in the corrupt or fraudulent practice in competing for or in executing the Contract. For the purpose of this clause, "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value to influence the action of a public official in the procurement process or in Contract execution. "Fraudulent Practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Employer and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid process at artificial non- competitive levels and to deprive the Employer of the benefits of free and open competition.
 - h. If the Contractor has not completed atleast thirty percent of the value of construction Work required to be completed after half of the completion period has elapsed;
 - i. If the Contractor fails to set up a field laboratory with the prescribed equipment, within the periods specified in the Contract Data; and
- 52.2 Notwithstanding the above, the Employer may terminate the Contract for convenience.
- 52.3 If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.

53. Payment upon Termination

- 53.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for the value of the work done and Materials ordered less advance payments received up to the date of the issue of the certificate and less the percentage to apply to the value of the work not completed, as indicated in the Contract Data. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be recovered from the security deposit, and performance security. If any amount is still left un-recovered it will be a debt.
- 53.2 If the Contract is terminated at the Employer's convenience, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the Contract, and less taxes due to be deducted at source as per applicable law.

54. Property

- 54.1 All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Employer for use for completing balance construction work if the Contract is terminated because of the Contractor's default, till the Works is completed after which it will be transferred to the Contractor and credit, if any, given for its use.

55. Release from Performance

- 55.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of the Employer or the Contractor, the Engineer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which a commitment was made.

F. Other Conditions of Contract

56. Labour

- 56.1 The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.
- 56.2 The Contractor shall, if required by the Engineer, deliver to the Engineer a return in detail, in such form and at such intervals as the Engineer may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the Contractor on the Site and such other information as the Engineer may require.

57. COMPLIANCE WITH LABOUR REGULATIONS

- 57.1 During continuance of the Contract, the Contractor and his sub Contractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority. Salient features of some of the major labour laws that are applicable to construction industry are given in Appendix to Part I General Condition of Contract. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, the Engineer/Employer shall have the right to deduct any money due to the Contractor including his amount of performance security. The Employer/Engineer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer. The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

58. Drawings and Photographs of the Works

- 58.1 The contractor shall do photography/video photography of the site firstly before the start of the work, secondly mid- way in the execution of different stages of work and lastly after the completion of the work. No separate payment will be made to the contractor for this.

59. The Apprentices Act 1961

- 59.1 The Contractor shall duly comply with the provisions of the Apprentices Act 1961 (III of 1961), the rules made there under and the orders that may be issued from time to time under the said Act and the said Rules and on his failure or neglect to do so he shall be subject to all liabilities and penalties provided by the said Act and said Rules.

G. Contract Data to General Conditions of Contract.

Except where otherwise indicated, the Employer prior to issuance of the bidding documents should fill in all Contract Data, Schedules and reports to be provided by the Employer should be annexed.

Items marked "N/A" do not apply in this Contract.

1. The Employer is [Cl.1.1]
Designation: Chief Executive Officer, GMDA, Guwahati-5
Address: Guwahati-5

Name of authorized Representative N/A

2. The Engineer is Chief Engineer, GMDA
Designation: Chief Engineer, GMDA
Address: Bhangagarh, Guwahati-5 [Cl. 1.1]
3. The Intended Completion Date for the whole of the Work is 6 (six) months from the date of issue of Notice to proceed with the work. [Cl. 1.1, 17 & 27]
4. The Site is located at Adabari-Maligaon of Guwahati City [Cl. 1.1]
5. The Start Date shall be 10 days after the date of issue of the Notice to proceed with the work. [Cl. 1.1]
6. (a) The name and identification number of the Contract is [Cl. 1.1] N/A
(b) The Works consist of Civil Construction Works [Cl. 1.1].
7. Section completion is [Cl. 2.2] N/A
8. The following documents also form part of the Contract: N/A [Cl. 2.3(11)]
9. (a) The law which applies to the Contract is the law of Union of India. [Cl. 3.1]
(b) The language of the Contract documents is English [Cl. 3.1]
10. The Schedule of Other Contractors is attached [Cl. 10.1] N/A
11. A. The Technical Personnel for construction work are: [Cl. 9.1]

Technical Personnel	Number	Experience in Civil Construction Works
A. Degree Holder in Civil Engineering		
B. Diploma Holder in Civil Engineering		
C. Site Supervisor (minimum Qualification:- HS Pass)		
D. Horticulturist (B.Sc. Horticulture)		

12. Amount and deductible for insurance are: [Cl. 13.1] Rs. 2.00 Lakhs
13. Site investigation report [Cl. 14.1] N/A

- 14.(a) Competent authorities are: to be named later on mutual agreement. [Cl. 24.1]
15. (a) The period for submission of the programme for approval of Engineer shall be 10 (Ten) days from the issue of Letter of Acceptance. [Cl.26.1]
- (b) The updated programme shall be submitted at interval of 45 (Forty-Five) days. [Cl. 26.3]
- (d) The amount to be withheld for late submission of an updated programme shall be Rs. 0.50 lakhs. [Cl. 26.3]
16. The percentage of Variation of items of work for which there shall be no increase in rates shall be 25(twenty five)% [Cl 36.1]
17. The authorized person to make payments is C.E.O., GMDA [Cl.39.2].
- 18 (a) Milestones to be achieved during the contract period:
- (1) 1/8th of the entire contract work up to 1/4th of the period allowed for completion of construction.
- (2) 3/8th of the entire contract work up to 1/2 of the period allowed for completion of construction.
- (3) 3/4th of the entire contract work up to 3/4th of the period allowed for completion of construction.
19. (a) Amount of liquidated damages for Milestone/ Whole of work delay in completion of works 1 percent of the Initial Contract Price, rounded off to the nearest thousand, per week.
20. (a) Maximum limit of liquidated damages for 10 per cent of the Initial delay in completion of work. Contract Price rounded off to the nearest thousand. [Cl. 44.1]
21. The standard form of Performance Security acceptable to the Employer Shall be an unconditional Bank Guarantee of the type as presented in the Bidding Documents. [Cl. 46.1]
22. The date by which “as-built” drawings (in scale as directed) in 2 sets are required is within 28 days of issue of certificate of completion of whole or section of the work, as the case may be. [Cl. 51.1]
23. The amount to be withheld for failing to supply “as-built” drawings by the date required is Rs. 5.00 (Five) Lakhs. [Cl.51.2]
24. (a) Deleted
- (b) The following events shall also be fundamental breach of contract: [Cl.52.2 (j.)]
“The Contractor has contravened Clause 7.1 and Clause 9 of Part I General Conditions of Contract
- 25.1. The percentage to apply to the value of the work not completed representing the Employer’s additional cost for completing the Works shall be 10 (ten percent). [Cl. 53.1]
- 25.2. Deleted

Section-4

Part II Special Condition of Contract

SALIENT FEATURES OF SOME MAJOR LABOUR LAWS APPLICABLE TO ESTABLISHMENTS ENGAGED IN BUILDING AND OTHER CONSTRUCTION WORK.

- a) **Workmen Compensation Act 1923:** - The Act provides for compensation in case of injury by accident arising out of and during the course of employment.
- b) **Payment of Gratuity Act 1972:** -Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if an employee has completed the prescribed minimum years (say, five years) of service or more or on death the rate of prescribed minimum days' (say, 15 days) wages for every completed year of service. The Act is applicable to all establishments employing the prescribed minimum number (say, 10) or more employees.
- c) **Employees P.F. and Miscellaneous Provision Act 1952** The Act Provides for monthly contributions by the Employer plus workers at the rate prescribed (say, 10% or 8.33%). The benefits payable under the Act are:
 - 1. Pension or family pension on retirement or death as the case may be.
 - 2. Deposit linked insurance on the death in harness of the worker.
 - 3. Payment of P.F. accumulation on retirement/death etc.
- d) **Maternity Benefit Act 1951:** -The Act provides for leave and some other benefits to women employees in case of confinement or miscarriage etc.
- e) **Contract Labour (Regulation & Abolition) Act 1970 :** - The Act provides for certain welfare measures to be provided by the Contractor to contract labour and in case the Contractor fails to provide, the same are required to be provided, by the Principal Employer by Law. The principal Employer is required to take Certificate of Registration and the Contractor is required to take license from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Employer if they employ prescribed minimum (say 20) or more contract labour.
- f) **Minimum Wages Act 1948:** - The Employer is to pay not less than the Minimum Wages fixed by appropriate Government as per provisions of the Act if the employment is a scheduled employment. Construction of buildings, roads, runways is scheduled employment.
- g) **Payment of Wages Act 1936:** - It lays down as to by what date the wages are to be paid when it will be paid and what deductions can be made from the wages of the workers.
- h) **Equal Remuneration Act 1979 :** -The Act provides for payment of equal wages for work of equal nature to male and female workers and for not making discrimination against female employees in the matters of transfers, training and promotions etc.
- i) **Payment of Bonus Act 1965:** - **The Act is applicable to all establishments employing** prescribed minimum (say, 20) or more workmen. The Act provides for payments of annual bonus within the prescribed range of percentage of wages to employees drawing up to the prescribed amount of wages, calculated in the prescribed manner. The Act does not apply to certain establishments. The newly set-up establishments are exempted for five years in certain circumstances. States may have different number of employment size.
- j) **Industrial Disputes Act 1947 :** - The Act lays down the machinery and procedure for resolution of industrial disputes, in what situations a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.

- k) **Industrial Employment (Standing Orders) Act 1946:** - It is applicable to all establishments employing prescribed minimum (say, 100, or 50). The Act provides for laying down rules governing the conditions of employment by the Employer on matters provided in the Act and get these certified by the designated Authority.
- l) **Trade Unions Act 1926:** -The Act lays down the procedure for registration of trade unions of workmen and Employers. The Trade Unions registered under the Act have been given certain immunities from civil and criminal liabilities.
- m) **Child Labour (Prohibition & Regulation) Act 1986** : - he Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulations of employment of children in all other occupations and processes. Employment of child labour is prohibited in building and construction industry.
- n) **Inter-State Migrant Workmen' (Regulation of Employment & Conditions of Service) Act 1979:** -The Act is applicable to an establishment which employs prescribed minimum (say, five) or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another state). The Inter-State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as Housing, Medical-Aid, Travelling expenses from home up to the establishment and back etc.
- o) **The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act 1996 and the Cess Act of 1996:** -All the establishments who carry on any building or other construction work and employs the prescribed minimum (say, 10) or more workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the Government. The Employer of the establishment is required to provide safety measures at the building or construction work and other welfare measures, such as canteens, first-aid facilities, ambulance, housing accommodations for workers near the work place etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.
- p) **Factories Act 1948:-**The Act lays down the procedure for approval of plans before setting up factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing the prescribed minimum (say,10) persons or more with aid of power or another prescribed minimum (say, 20) or more persons without the aid of power engaged in manufacturing process.

Section 5 Specifications

1. Earthwork in Excavation

1.1 Scope:

The specification covers the general requirements of Earthwork in excavation in different materials, site grading as shown in the drawings and as directed by the Engineer.

1.2 Applicable Code:

The following I.S. codes unless specified, shall be applicable in all cases latest revision of the codes shall be referred to.

IS: 3764 Safety code for execution work

IS: 3385 Code of practice for measurement of Civil Engineering works

IS: 2720 Determination of moisture content, dry density etc.

1.3 General

The contractor shall carry out survey of the site before excavation and set properly all lines, levels etc. The excavation is to be done to correct levels and lines. This shall also include proper shoring to maintain excavation barricades around excavated area and warning bumps at nights for safety.

1.4 Clearing

The area to be excavated shall be cleared of fences, trees, logs, bushes etc. and other objectionable matter. If any roots or stumps are of trees are met during excavation, they shall be removed.

1.5 Classification

All materials to be excavated shall be classified by the Engineer and shall be paid for at the rates tendered for that particular class of materials.

1.6 Dewatering

All excavation shall be kept free of water. Grading of surface in the vicinity of excavation shall be controlled to prevent surface water running into the excavated area. Contractor shall remove water by pumping as directed by the Engineer.

2. Concrete and Allied Work

All works have to be carried out in accordance to the relevant Standards and code of practice or as directed by the Engineer from time to time.

The following specification, standards and code of practice including latest revisions shall be considered as part of specification.

IS 269- Specification for 33 grade OPC

IS 1489- Specification for PPC

IS 8112- Specification for 43 grade OPC

IS 383- Specification for coarse and fine aggregates from natural source for concrete

IS 432- Specification for mild steel and medium tensile steel bar for concrete reinforcement.

IS 1786- Specification for high strength deformed bars for concrete reinforcement

IS 9103- Specification for admixtures for concrete

IS 4990- Specification for plywood for concrete shuttering work.

IS 12269- Specification for 53 grade OPC

IS 516- Method of Test for strength of concrete

3. Materials:

- a. **Cement:**
Unless otherwise specified in specification or called for by Engineer, Cement shall be OPC conforming to IS 269 (latest edition)
Cement which is not within 90 days from the date of its manufacturer, shall be tested at a laboratory and until the results are not found satisfactory, it shall not be used in any work.
- b. **Aggregate:**
Aggregate shall consist of naturally occurring stones (crushed). These shall conform to IS: 383
- c. **Water:**
Water used for mixing and curing shall conform to IS: 456. Potable water shall be used.
- d. **Reinforcement:**
The reinforcement bars shall be TMT grade Fe 415/500 conforming to BIS. The approved makes of SAIL, TATA steel or any other approved based on performance shall be used. All reinforcement shall be clean, free from oil, grease, rust, dirt etc.
- e. **Admixtures:**
Accelerating, retarding, water reducing admixtures shall conform to IS: 9103 and integral water proofing admixtures to IS: 2645.
- f. **Storing of Materials:**
All materials shall be stored in a manner so as to prevent its deterioration and contamination which would preclude its use in works. Requirements of IS 4082 shall be complied with.

4. Design Mix Concrete:

For design mix concrete, the mix shall be designed according to IS: 10262 and SP: 23 to provide the grade of concrete having the required workability and characteristic strength.

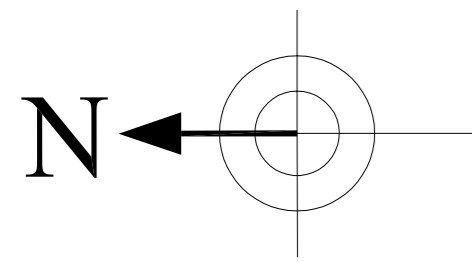
5. General Note:

Whenever discrepancies regarding specification of materials mentioned aforesaid are found and where no specification numbers are mentioned (pertaining to the materials to be used in works) in all such cases relevant Indian Standard Specifications with all their latest amendments shall be applicable.

SECTION- 6

**“Development of Park at the site of Assam Khadi and
Village Industries Board, Hengrabari, Guwahati”**

DRAWINGS



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NOTES

1. ALL DIMENSIONS ARE TO BE READ
AND NOT TO BE MEASURED.
2. ALL DIMENSIONS ARE IN MILLIMETER
(MM) UNLESS OTHERWISE SPECIFIED.

S.NO.	REVISIONS	DATE
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REVISIONS

CLIENT

GMDA

PROJECT

DEVELOPMENT OF PARK AT
THE COMPLEX OF KHADI &
VILLAGE INDUSTRIES BOARD,
HENGRABARI, GUWAHATI

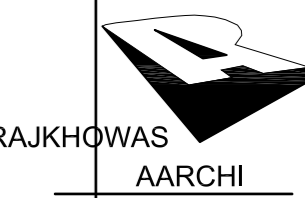
SCALE	JOB NO.	
	DEALT BY	
	CHECKED BY	

CLIENT'S SIGN

ARCHITECT'S SIGN

CONSULTANT

ARCHITECTS, ENGINEERS,
VALUERS & PLANNERS
M.D.ROAD, CHANDMARI,
GUWAHATI- 781003



DRAWING TITLE

SITE PLAN

DRAWING NO.

RAA/GMDA/HPARK/SITE/AR-101

SECTION- 7

**“Development of Park at the the site of Assam
Khadi and Village Industries Board, Hengrabari,
Guwahati”**

Bill of Quantity

Sl. No.	Description of work	Unit	Quantity
1.00	EARTH WORK :		
1.01	Earth work in excavation for foundation trenches of walls, retaining walls, retaining walls, footings of columns, steps, septic tank etc., including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in following classifications of soils including bailing out water where necessary as directed and specified.(A) Upto a depth of 2.00m below the existing ground level. (a) In ordinary soil	cum	11328.00
1.02	Extra lead per km truck carriage for excavated earth beyond the initial lead of 1 km.	Cum	846.00
1.03	Earth/ Sand filling in plinth in layer not more than 150mm thick including necessary, carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, Forest Royalty, Sales Tax and other duties and taxes as may be necessary. (c) With silt (predominantly non plastic) by truck carriage including loading and unloading.	Cum	2777.00
2.00	JUNGLE CLEARING:		
2.01	Jungle clearing including cutting bamboo and trees below 500mm girth and removing the same outside the limit as directed.		
2.01A	(a). Light jungle.	Sqm	13725.00
2.01B	(b). Medium jungle.	Sqm	13725.00
2.02	Felling and removing		
2.02A	a). Bamboo clumps	Sqm	150.00
2.02B	b). Bamboo clumps including uprooting stumps.	Sqm	200.00
2.02C	c).Cutting trees including uprooting and removing where necessary. (i).500 mm to 1000mm girth.	Each	125.00
2.03	f).Cutting and clearing bushes consisting of plants and all sorts of bambooes including uprooting and removing as necessary and filling up the holes with earth,dressing,ramming etc. complete.	Sqm	2560.00
2.04	Surface dressing of ground including removing vegetation and/ or undulation of ground not exceeding 150mm deep and disposal of rubbish outside the periphery and lift up to 1800mm in all kinds of soil.	Sqm	13725.00
2.05	Jungle clearence including uprooting of vegetation, grass, brush-wood, sapling and trees not exceeding 300mm girth and disposal of the same outside the periphery and lift upto 1500mm	Sqm	4500.00

Sl. No.	Description of work	Unit	Quantity
2.06	Cutting down trees where the building is to be constructed of girth exceeding 300mm, grubbing up roots, filling pits and levelling off ground lopping branches, trimming and removing to distance beyond 30m and stacking serviceable materials and cleaning site etc. as directed.		
2.06A	i).Girth exceeding 300mm but not exceeding 1000mm	Each	50.00
2.06B	ii).Girth exceeding 1000mm but not exceeding 1500mm	Each	50.00
2.07	Demolishing plain cement concrete including disposal of debris as directed for all levels		
2.07A	(i) Prop (1 : 4 : 8) or leaner mix	Cum	3.00
2.07B	(ii) Prop (1 : 3 : 6) or richer mix	Cum	3.00
2.08	Demolishing RCC work including stacking of steel bars and disposal of unserviceable material as directed for all levels	Cum	80.00
2.09	Demolishing RB work including stacking of steel bars and disposal of unserviceable material as directed for all levels	Cum	245.00
2.10	Extra for cutting reinforcement in RCC or RB work at all levels (Payment to be made on cross sectional area of RCC or RB work obtained by multiplying the length of the cut reinforcement and thickness of the member).	Sqm	250.00
2.11	Extra for scraping, cleaning and straightening reinforcement from RCC or RB work at all levels	Kg.	150.00
3.00	DISMANTELING WORKS		
3.01	Demolishing brickwork including stacking of serviceable materials and disposal of unserviceable materials as directed for all levels	Cum	200.00
3.02	Demolishing stone rubble masonry including stacking of serviceable materials and disposal of unserviceable materials as directed for all levels	Cum	180.00
3.03	Dismantling wood work in frames, trusses, purlins and rafters including stacking the materials as directed by the department for all levels.	Cum	12.00
3.04	Dismantling steel work in single sections (R.S.Joists, channels, angles, tees and flats etc.) including dismembering and stacking the materials as directed by the Department for all levels.	Kg.	1200.00

Sl. No.	Description of work	Unit	Quantity
3.05	Dismantling steel work in built up sections in joists, angles, channels, tees, flats etc. including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking the materials as directed by the Department for all levels	Kg.	2500.00
3.06	Dismantling all types of corrugated/ trapezoidal sheet roofing including ridges, hips, valleys and gutters etc. and stacking the materials as directed by the department for all levels	Sqm	3000.00
3.07	Demolishing skirting/ dado in walls/ R.C.C. & P.C.C. members without causing damage to walls/ member upto any height including disposal of debris as directed for all levels	Cum	120.00
3.08	Demolishing CC floors of various thickness including top layer and base course and disposal of debris as directed for all levels.	Sqm	1500.00
3.09	Demolishing R.C.C./ P.C.C. pile head of different diameters carefully without disturbing the remaining portion of the pile including opening out of the pile head to be demolished by excavating the earth upto required depth and clearing the debris as directed.	Cum	12.00
3.10	Dismantling and removing the existing door and window frame (chowkath) both wooden and steel of different sizes without damaging the walls and removing the frame and necessary repairs to the edges of the walls as directed for all levels.		
3.10A	(i) Area of door/window up to 3.00 m2	Each	25.00
3.10B	(ii) Area of door/window above 3.00 m2	Each	45.00
3.11	Dismantling of existing steel windows/ steel ventilators/ steel windows and steel ventilators without damaging the walls, removing to a safe place and necessary repairs to the edges of walls.	Sqm	12.00
3.12	Dismantling all types of ceiling, partition and wall lining and stacking the materials as directed by the department for all levels	Sqm	1200.00
4.00	PCC WORK		
4.01	Plain cement concrete works with coarse aggregate, of sizes 13mm to 32mm in foundation bed for footing, steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete(Shuttering where necessary shall be measured and paid separately) (a) In prop. 1 cement :3 sand : 6 coarse aggregate by volume.	cum	742.00
4.02	Plain cement concrete floor base in prop. 1:3:6 laid in alternate bays as specified with coarse agg. of size 13mm to 32mm including dewatering if necessary, and curing complete (ii) 50mm thick	sqm	5027.00

Sl. No.	Description of work	Unit	Quantity
5.00	RCC WORK Providing and laying plain/reinforced cement concrete works with coarse sand & 20mm down aded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately.)		
5.01	I) Using mixture machine (A) In sub-structure upto plinth level. Foundation, footings, columns with base, tie and plinth beam, pile cap, base, slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level. P) Without Using admixture, plasticiser etc for air entraining, water reducing purposes including addition of agent for changing normal setting time of concrete as required. b) M20 grade concrete or Prop. 1:1.5:3	cum	801.00
5.02	(B) In superstructure from plinth level to 1st floor level. ii) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder,bressumer, cantilever, staircase (except spiral stair case and landing) including preparing the top surface and finishing of nosing. P) Without Using admixture, plasticiser etc b) M20 grade concrete or Prop. 1:1.5:3	cum	1035.00
5.03	Providing and laying plain/reinforced cement concrete works with coarse sand & 20mm down aded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work for all levels. No extra charges for carrying the matirials to the excution site. (form work and reinforcement will be measured and paid separately.) In sub-structure/superstructure II. Using Batching Plant/ RMC/ Truck mounted batching plant including Transit Mixer and Concrete Pump c) M25 grade concrete	cum	389
6.00	DPC WORK		
6.01	Providing and laying 25mm thick damp proof course with cement concrete in prop 1:1.5:3 with graded stone agg. of 10mm down nominal size including providing approved damp proof admixture in proportion as recommended by the manufacturer including curing etc. complete as directed.	sqm	548.00
7.00	SHUTTERING AND FORM WORK Providing form work of ordinary timber planking so as to give a rough finish including centering, shuttering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0m and removal of the same for in-situ reinforced concrete and plain concrete work in.		

Sl. No.	Description of work	Unit	Quantity
7.01	Foundation, footings, bases of columns, pile cap, raft and mass concrete works etc. (b) Using 25mm thick plank	sqm	2712.00
7.02	Columns, Pillars, Posts & Strut (a) Square, Rectangular, polygonal in plan or any shape like Tee/L etc. having plane vertical face (ii) Using 25mm thick plank	sqm	1224.00
7.03	Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties. (a) For depth not exceeding 1.0M. (ii) Using 25mm thick plank	sqm	1322.00
7.04	Sides of tie beams, grade beams etc. at or below ground level. (b) Using 25mm thick plank	Sqm	2533.00
7.05	Flat Surfaces such as soffits of suspended floors, roofs, landings, cantilever slabs, chajjas, balconies and the like. (a) Floors etc. upto 200mm in thickness. (ii) Using 25mm thick plank	sqm	1416.00
7.06	Vertical surface such as walls (any thickness), parapet walls, partitions, walls of septic tank, inspection pit and the like including attached pilasters, buttresses, plinth and string courses and the like. (i) Using 38mm thick plank	Sqm	954.00
7.07	(d) Staircase with sloping or stepped soffits including risers and stringers but excluding landing. (using 38mm thick	sqm	390.00
8.00	BRICK WORK		
8.01	Providing brick soling in foundation and under floor with stone/best quality picked jhama bricks, sand packed and laid to level and in panel after preparing the sub-grade as directed including all labour and materials, and if necessary dewatering, complete. (a) Brick on flat soling	sqm	12070.00
8.02	Brick work in cement mortar with 1st class brick including racking out joints and curing complete as directed. (I) In Sub-structure upto plinth level including dewatering if necessary (a) In prop. 1:4 First class brick with non modular of class designation 7.5	cum	1603.00
8.03	(II) In superstructure above plinth level up to 1st floor level. (b) In proportion 1:4.(1 cement:4 sand)	Cum	2.00
8.04	1st class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of column to be embeded in cement mortar and will be measured and paid separately) (A) 112mm thick brick wall		

Sl. No.	Description of work	Unit	Quantity
	(a) In cement mortar in proportion 1:4. (1 cement:4 sand) [First class brick with non modular of class designation 7.5]	sqm	4492.00
9.00	STONE MASONRY WORKS Stone masonry work in retaining wall, wing wall, abutment, foundation, steps, plinth etc. in cement mortar in prop 1:6 with levelling course of 1:6:12 with both faces hammer dressed including bonding, providing face stone, through stone and centering including racking of joints, curing and supplying and all carriage of stone as directed including payment of forest royalty and sales tax and carriage.		
9.01	(b) Coarse Rubble Masonry	Cum	192
9.02	(a) Random Rubble Masonry	Cum	542
10.00	STONE PITCHING:		
10.01	Stone pitching work in wing wall, abutment, foundation, steps, plinth etc. with levelling and raming the earth in required slope. Pointing the join of the stones with cement mortar 1:3 (1 Cement : 3 coarse sand). All the shall be completed as per direction given by the engineer-in-charge.	Sqm	478.00
11.00	IRON AND STEEL WORK Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level)		
11.01	b) Other ISI approved TMT reinforcement bar (SAIL/JINDAL STEEL/SHYAM/SAI) (GARDE OF STEEL-Fe500)	qtl	2355.00
11.02	a) From Primary Producer: TATA/SAIL/Esser Steel/ Jindal steel/Shyam steel/RINL (ii)Super Ductile (SD) TMT reinforcement bars	Qtl.	415.00
11.03	c) ISI approved Mild steel reinforcement bar(M.S.Bar)	Qtl	15.00
12.00	FLOORING		
12.01	Providing Ceramic Tiles of approved quality, size, shape and thickness not less than 8 mm on floors, skirtings, treads and risers of steps over cement mortar bed 15 mm thick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with fix-A Tile Choksey/ Sika/ Pedelite/ Rouf/ White cement slurry mixed with approved pigment to match the shade of granite slab, complete at all levels as specified and directed (coloured pigment should be in conformity with colour of slab and as approved and directed by the Department).		

Sl. No.	Description of work	Unit	Quantity
	Somany/ Orient/Nitco Make Of size 400mmx400mm and above	sqm	193.00
12.02	WALL TILES Providing polished ceramic wall tiles of approved quality, size, shape and thickness not less than 8mm on walls and skirtings over cement mortar bed 10 mm thick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey / Sika / Pedelite / Rouf) /white cement slurry mixed with approved pigment to match shade of tiles complete at all levels as specified and directed. (Cement plastering to be measured and paid separately). (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department). (Walls means both interior and exterior walls). a) Normal range Somany / Orient / Nitco / Asian Make ii) Of size 200mmx300mm and above	sqm	102.00
12.03	Providing polished vitrified wall tiles of approved quality, size, shape and thickness not less than 8mm on walls and skirtings over cement mortar bed 10 mm thick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf)/white cement slurry mixed with approved pigment to match shade of tiles complete at all levels as specified and directed. (coloured pigment should be in conformity with colour of tiles and as approved and directed by the department). i) Of size 300mmx450mm and above	Sq.m	384
12.04	Providing VITRIFIED floor tiles of approved quality of specified size, shape and thickness not less than 12mm on floors, skirtings, risers and treads of steps over 15 mm thick base of cement mortar in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf) / white cement slurry mixed with approved pigment to match shade of tiles, mixed with approved pigment to match the shade of the tiles, complete at all levels as specified and directed. (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department) a) Normal range Somany / Orient / Nitco / Varmora / VITA / Marbito / Make ii) Of size 600mmx600mm and above	Sq.m	865
12.05	Providing ANTISKID tiles of approved quality sizes,shape not less than 8mm on floor, skirting over a cement mortar bed 15mm thick of 1:3 (1 Cement : 3 coarse sand) approved make fix with Fix -A-Tiles (Choksey / Sika / Pedelite / Rouf / white cement complete at all level as specified and directed. Vitrified Tiles a) Deluxe -VC [Toilet floor & terrace)	Sq.m.	116.00

Sl. No.	Description of work	Unit	Quantity
12.06	<p>Providing VITRIFIED floor tiles of approved quality of specified size, shape and thickness not less than 12mm on floors, skirtings, risers and treads of steps over 12 mm thick base of cement mortar in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf) / white cement slurry mixed with approved pigment to match shade of tiles, mixed with approved pigment to match the shade of the tiles, complete at all levels as specified and directed. (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department)</p> <p>Endura designer collection of Johnson make of size 300mm x 300mm and above (Art Grey, Cementina Port, Cotto beige, Cotto classic, Slate Anthracite, Slate LT beige)</p>	Sq.m	2284.00
12.07	<p>Providing VITRIFIED floor tiles of approved quality of specified size, shape and thickness not less than 15mm on floors, skirtings, risers and treads of steps over 12 mm thick base of cement mortar in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf) / white cement slurry mixed with approved pigment to match shade of tiles, mixed with approved pigment to match the shade of the tiles, complete at all levels as specified and directed. (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department)</p> <p>Endura Meteor series of Johnson make of size 600mm x 600mm and above (Plain benaulim, Plain Donapaula, Plain Grey, Plain Ozran, Plain White, Quartzite Ivory, Quartzite white, Slate Ivory, Slit White)</p>	Sq.m	4291.00
12.08	<p>Providing, fitting and fixing of wall tiles of approved quality, size, shape and thickness not less than 7.5mm on walls and skirtings over cement mortar bed 10 mm thick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with white cement slurry mixed with approved pigment to match shade of tiles complete at all levels as specified and directed.</p> <p>Endura designer collection of Johnson make of size 300mm x 600mm GVT elevation tiles (Castlestone begie matt, Castlestone moss matt, fieldstone BR matt, Ledgestone begie matt, rockstone gris matt, Spiltstone BR mall)</p>	Sqm	949.00
12.09	<p>Providing VITRIFIED floor tiles of approved quality of specified size, shape and thickness not less than 10mm on floors, skirtings, risers and treads of steps over 15 mm thick base of cement mortar in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf) / white cement slurry mixed with approved pigment to match shade of tiles, mixed with approved pigment to match the shade of the tiles, complete at all levels as specified and directed. (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department)</p> <p>Endura designer collection of Johnson make of size 300mm x 300mm and above</p>	Sq.m	2658.00

Sl. No.	Description of work	Unit	Quantity
12.10	Providing wall tiles of approved quality, size, shape and thickness not less than 8mm on walls and skirtings over cement mortar bed 10 mm thick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with white cement slurry mixed with approved pigment to match shade of tiles complete at all levels as specified and directed.		
	a) Normal range Endura designer collection of Johnson make of size 300mm x 300mm and above	Sqm	139.00
12.11	MOULDING WORK Providing and fixing marble work of double moulding all complete	Rm	55.00
12.12	MOULDING WORK OF GRAINTE Providing round moulding (top & bottom) of granite including polish work all complete.	Rm	65.00
12.13	GRANITE WORK Providing 18mm thick granite slab on vertical face of pedestal laid with edge moulding over 10mm thick base of cement mortar in prop. 1:3 (1 Cement : 3 Coarse sand) jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete as directed with approved quality of shade.	Sqm	92.00
12.14	MARBLE FLOORING 18mm thick Marble stone slab flooring of sizes 1200 x 1200 including treads and risers of steps, skirting, laid over 20mm thick base of cement plaster 1:6 (1 cement : 6 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete with marble slab of specified quality and shade at all levels. (III) Kumari Slab	cum	39.00
12.15	BAMBOO FLOORING Providing & fixing in position, volatile organic compound compliant and conforming to IS:13745-1993 Phenol bonded Epitome Bamboowood 20mm thick Decking Outdoor Flooring Tile made out of Eco friendly Bamboowood having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council.*(BMTPC) and included In the GRIHA Product Catalogue or equivalent.In approved variant & colours / finishes with deck plank size 1900mm x 135mm, having density of 1000 Kg/m3 to 1 250 Kg/m3 & Hardness 1 000 Kgf to 1500 Kgf, deck tiles finished exterior coating, having deck profiled top and round edges with grooved interlocking system on both sides. Providing and fixing to frame work made of seasoned & treated second class wood of size 38x38mm placed underneath across the deck tile at both ends and in centre fixed with clips holding in position by screws as a complete job. The rate of material includes all charges such as Excise, VAT, octroi, carriage, loading, unloading and stacking at site complete as directed by Engineer in-charge.	Sqm	26.00

Sl. No.	Description of work	Unit	Quantity
12.16	<p>Providing floor tiles for trade of steps of approved quality of specified size, shape and thickness not less than 15mm on floors, skirtings, risers and treads of steps over 12 mm thick base of cement mortar in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf) / white cement slurry mixed with approved pigment to match shade of tiles, mixed with approved pigment to match the shade of the tiles, complete at all levels as specified and directed. (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department)</p> <p>Endura Meteor series of Johnson make of size 1200mm x 300mm and above (American walnut stone, Benelium Stone Colva Stone, Donapaula Stone, Gmalo Stone, Pink Stone, Vaga Stone, Velsoa stone)</p>	Sq.m	11.00
12.17	<p>Providing floor tiles for riser of steps of approved quality of specified size, shape and thickness not less than 15mm on floors, skirtings, risers and treads of steps over 12 mm thick base of cement mortar in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf) / white cement slurry mixed with approved pigment to match shade of tiles, mixed with approved pigment to match the shade of the tiles, complete at all levels as specified and directed. (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department)</p> <p>Endura Meteor series of Johnson make of size 1200mm x 600mm and above (Plain American walnut , Plain Benelium, Plain Colva , Plain Donapaula, Plain Gmalo , Plain Pink , Plain Vaga, Plain Velsoa)</p>	Sq.m	9.00
12.18	KERB STONE		
	<p>Providing and laying at or near groundlevel factory made kerb stone of M-25 Grade cement concrete in position to the required line,level and curvature,jointed in cement mortar 1:3(1 cement:3 coarse sand),including making joints with or without grooves(thickness of joints except at sharp curves shall not to more than 5mm),including making drainage opening wherever required complete etc.as per directoin of engineer incharge(length of finished kerb edging shall be measured for payment).(Precast C.C. kerb stone shall be approved by Engineer-in-charge)</p>	cum	121.00
13.00	PLASTERING		
13.01	<p>10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed.</p> <p>b) In cement mortar 1:4</p>	sqm	13161.00
13.02	<p>15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed.</p> <p>A) On rough side</p> <p>b) In cement mortar 1:4</p>	sqm	10128.00
13.03	Neat cement punning	sqm	3619.00

Sl. No.	Description of work	Unit	Quantity
14.00 PAINTING			
14.01	a) Applying one coat of cement primer of approved brand and manufacture on new wall surface after thoroughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.	Sqm	3740
14.02	b) Finishing wall with two or more coats of water proofing cement paint of approved brand and manufacture and of required shade on new wall surface (two coats) to give an even shade after thoroughly brooming the surfaces to remove all dirt and remains of loose powdered materials.	Sqm	3740
14.03	c) Applying one coat of Plastic emulsion primer of approved brand and manufacture on wall surface after thoroughly brushing the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.	Sqm	245.00
14.04	Wall painting (two or more coats) with Plastic emulsion paint approved brand and manufacture (Asian/Nerolac/Berger) on new surface to give an even shade after thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.		
	(a).Plastic Emulsion Paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)	sqm	4173.00
14.05	d) Applying one coat of alkali resistance primer of approved brand and manufacture on wall surface after thoroughly brushing the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.	Sqm	245.00
14.06	Finishing wall with two or more coats of acrylic emulsion exterior coatings of Unicem "Rakshak" brand of required shade by thinning 1ltr. of paint with 750ml of water to give an even shade after thoroughly brooming the surfaces to remove all dirt and remains of loose powdered materials as specified and directed by the department.	sqm	2457.00
14.07	Applying priming coat over new wood and wood based surfaces over 100mm in girth/width after and including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter, sand papering and knotting. (a) With ready mixed paint, wood primer (White)	sqm	136.00
14.08	Painting two coats(excluding priming coat) on new wood and wood based surface with enamel paint of approved brand and manufacture (Asian paint/Berge paint/ICI paint/J&K paint/ Nerolac) to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matter sand papering and stopping. (i) Surfaces over 100mm in width/girth. (a) General purpose (Asian paint/Berger paint/ ICI paint/J& K paint/Nerolac.	sqm	166.00

Sl. No.	Description of work	Unit	Quantity
14.09	Applying primary coat over new steel and other metal surface over 100mm in width or girth after preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and scoured with wire brushes, fine steels, wood scrapers and sand paper. (a) With ready mixed "red-lead/red oxide" primer.	sqm	779.00
14.10	Painting two coats (excluding priming coat) on new steel and other metal surface with enamel paint of approved brand and manufacture (Asian paint/Berger paint/ ICI paint/J&N paint/ Nerolac) to give an even shade including cleaning the surface of all dirt, dust and other foreign matter. (i) Surfaces over 100mm in width/girth. (a) General purpose (Asian paint/Berger paint/ ICI paint/J& K paint/Nerolac.	sqm	779.00
14.11	Applying one self-priming coat of acrylic emulsion coating of Unicem "Rakshak" brand by thinning 1ltrs of paints with 1ltrs of water over freshly plastered wall surface after thoroughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth as specified and directed by the department.	Sqm	516.00
14.12	Applying one priming coat of Unicem "Shakti" brand of required shade over freshly plastered wall surface after thoroughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth as specified and directed by the department.	Sqm	298.00
15.00	WALL PUTTY		
15.01	Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/ mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emery stone, putty blade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) (ii) Thickness = 1.0mm thick	Sqm	7159.00
16.00	HERITAGE FINISHING		
16.01	Supplying and laying of permanent wall finish for interior and exterior walls with surface coating of Heritage Surface Texture of Bakelite Hylam Limited for all types of buildings at all levels as specified and directed by the department. (a) Granules (Code : HGR)	Sqm	190.00
16.02	Applying priming coat over new wood and wood based surfaces over 100mm in girth/width after and including preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter , sand papering and knotting. (b). With ready mixed paint , wood primer (white).	Sqm	30.00
17.00	FALSE CEILING		

Sl. No.	Description of work	Unit	Quantity
17.01	<p>Providing and fixing, in position suspended false ceiling using E-Grid (exposed ceiling suspension 2430 system) of grid size 600mm x 600mm/1200mmx600mm with main runner 38 x 24mm, cross tee 29mm x 24mm & wall angle 24mm x 24mm . Using</p> <p>4mm/6mm thick High Pressure Steam Cured Non Asbestos Fibre Cement Board as per IS 14862, to be placed in a grid of G.I. system duly suspended with 4mm/6mm dia G.I./M.S bar hanger fixed with steel dash fasteners or iron purlin from the roof with adjustment clip providing positions for light fixtures, air conditioning diffuser and ducts, sprinklers, smoke detectors etc. The main runners to be secured to structural soffit by hanger @ 1220mm maximum c/c. The last hanger at the end of each main runner should not be placed at more than 450mm from the adjacent wall. Flush fitting 1220mm cross tee to be interlocked between main runners @ 610mm c/c, so as to form 600mm x 600mm/1200mmx600mm grid, all complete as per the drawing & directions of engineer-in-charge.</p> <p>Finally, if specified, boards are to be painted with 2 coats of acrylic emulsion paint of approved shade/make over a coat of cement primer before installing it on the grid.</p> <p>(A) Standard Ceilings of Everest make or equivalent as directed by the departement</p> <p>(i) Using 4 mm thick FC Board</p>	sqm	121.00
18.00	ROOFING:		
18.01	<p>Providing Pre Painted Galvalume Sheet Roofing (PPGL) at all levels including fitting and fixing self drilling, self tapping screws complete (Roof trusses, purlins etc. to be measured and paid separately.)</p> <p>TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement</p> <p>(iii) 0.50 mm thick</p>	sqm	240.00
18.02	<p>Providing Pre Painted Galvalume Sheet (PPGL) accessories (Ridges / Valley / Gutter / Flashing) at all levels including fitting and fixing self drilling, self tapping screws complete.</p> <p>TATA Blue scope/ Dyna roof / Durakolor /Wonder Roof or equivalent as directed by the Departement</p> <p>(iii) 0.50 mm thick</p>	RM	102.00
19.00	ROOF TRUSS		
19.01	<p>Providing fitting, hoisting and fixing of roof trusses including purlins fabricated using MS circular hollow section conforming to relevant I.S. code, as per approved design and drawings including providing M.S. cleats, base plates, bolts and nuts and one coat of red oxide Zinc Chromate primer and two coats of approved enamel paints complete including fitting necessary cleats etc. for fixing ceiling joists as per design and drawing as directed.</p> <p>a) TATA make Circular Hollow section- CHS of Grade YST-310 conforming to I.S. Specification : 1161-1998</p>	qtl	100.00
20.00	WOOD WORKS		
20.01	DOOR FRAME		

Sl. No.	Description of work	Unit	Quantity
	<p>Providing wood work in frame (chowkaths) of doors, windows, clerestory windows and other similar works wrought, framed and fixed in position in contact with C.C or brick masonry wall including supplying, fitting and fixing with M.S. hold fast (40mmx3mmx250mm) as per design embedded in cement concrete block in proportion 1:2:4 and with two coats of kiricide oiling to the timber faces in contact with C.C and masonry as directed and specified.</p> <p>(a) With sal wood</p>	cum	1.54
21.00	DOOR WORKS :		
21.01	<p>Providing, fitting and fixing factory made Santro Flush door shutters having core & cross bands fabricated from seasoned 1st class timber, 25mm core battens, 2.5mm to 3.5mm uniformly thick cross bands, styles & rails made from hardwood timber of width not less than 50mm, fixed to the door frames (chowkath) with necessary hinges, screws, bolts etc. as specified and directed at all levels (Door fixtures and fittings to be measured and paid seperately.)</p> <p>(b) 35mm thick</p>	sqm	56.00
22.00	HARDWARE FITTINGS :		
22.01	<p>Supplying, fitting, fixing brass fittings of approved make, resonably smooth, free from sharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary c.p. brass</p> <p>screws etc. complete.(bright natural matt & satin finished).</p>		
22.01A	<p>a) Sliding door bolts</p> <p>i) 300mm x 16mm</p>	each	30.00
22.01B	<p>b) Tower bolts</p> <p>ii) 250mm x 10mm</p>	each	30.00
22.01C	<p>(iv) 150mm x 10mm</p>	each	40.00
22.01D	<p>c) Door handles</p> <p>(i) 150mm</p>	each	40.00
22.01E	<p>j) Door latches</p> <p>i) 300mm x 16mm x 5mm</p>	each	10.00
22.01F	<p>c) Door handles</p> <p>ii) 100mm</p>	Each	10.00

Sl. No.	Description of work	Unit	Quantity
22.01G	e) Butt hinge i) 125mm x 50mm x 4mm	Pair	25.00
22.01H	(t) Door stopper with rubber stoper	each	6.00
23.00 23.01	ROOF TREATMENT : Preparing the RCC surface in roof slab, chajjas, terrace, sunken slabs, septic tank, overhead tank, raft slab, walls etc. by thoroughly cleaning with wire brush etc. followed by power washing for making the surface absolutely free from any foreign matter particles like dust, oil, grase etc. and allowing the surface to dry complete as directed at all levels.	sqm	965.00
23.02	Providing and applying over roof/raft slab, two coats of water proofing slurry prepared with cement, fine sand in prop. 1:1 admixed with modified acrylic polymer like Cemflex of Sika India Ltd., by brush @ 0.25% of cement sand mixture (by weight) after proper surface preparation (surface preparation including thoroughly cleaning of surface to be measured and paid separately) as specified and directed by the department complete.	sqm	965.00
23.03	Supplying, providing, mixing and laying of concrete screed of average 20mm thick or as per drawing/requirements in proportion 1:2:4 (1cement : 2fine sand : 4coarse aggregates) (by volume) with 10mm and down well graded aggregates and admixed with a waterproofing plasticizer like Plastocrete Plus of Sika India Ltd. @ 0.2% by weight of cement and thereafter scoring the top surface of the concrete screed @ 200mm c/c as specified and directed by the department.	sqm	1,371.00
23.04	(A) Supplying, mixing, laying and applying the following waterproofing systems over Raft slabs, Roof slabs, Terraces etc. including curing complete as specified and directed by the Department at all levels.: (i) 1mm thick single coat of Master Crete M-81 of Choksey Chemicals /Dr. Sealkit Sealcrete (Asian Chemicals)/ mixed with cement in the ratio 1:2 as a prime coat. (ii) 3mm thick Polymer modified mortar - Cement sand mortar (in prop 1:3) mixed with Master Crete M-81/Dr. Sealkit Sealcrete (Asian Chemicals) @ 15% by weight of cement.		
	(iii) 1mm thick coat of Master Crete M-81 /Dr. Sealkit Sealcrete (Asian Chemicals) mixed with cement in the ratio 1:2 as final coat.	Sqm	965.00
23.05	(B) Using RHEOMIX 131 OF BASF	Sqm	965.00

Sl. No.	Description of work	Unit	Quantity
24.00	ANTITERMITE TREATMENT :		
24.01	Pre construction anti-termite treatment by applying in the entire levelled area after plinth filling and before laying floor by applying the emulsion @ 5 (Five) litres per square meter of the surface to be spread with light rodding so as to ensure proper absorption by the filled up earth (supplying of necessary tools and accessories by the contractor) as per the direction on the Department complete. (a) With aqueous emulsion having concentration 1:19 with chloropiropophos solution (trichel or equivalent) and water ,i.e. 1% solution [item no.26.1.3(a)]	sqm	817.00
24.02	Pre construction anti - termite treatment in the back fill in immediate contact with the foundation structure after completion, column, wall etc. to a depth of 450mm and width 300mm (when required refill in 200mm thick layers) applying the emulsion @ 5 (five) litres per square meter towards the concrete and masonry walls so as to ensure earth in contact with the structure well treated - with chemical (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete. a) with aqueous emulsion having concentration 1:19 with chloropiropophose solution (trichel or euivalent) and water, i.e. 1% solution.	Sqm	142.00
25.00	PLINTH PROTECTION		
25.01	Providing plinth protection with bricks flat laid in cement mortar 1:4 and finished with 15mm thick cement plaster in prop. 1:2 with a floating coat of neat cement finish.	sqm	295.00
26.00	SURFACE DRAIN		
26.01	Providing drain with brick work in cement mortar in prop. 1:4 with half brick thick side walls and 100mm thick C.C. (1:3:6) base over one brick flat soling including 15mm thick cement plastering in prop. 1:3 finished with a floating coat of cement slurry as directed with necessary shuttering for sides and earth work in excavation of foundation trenches and refilling the sides after completion of work etc. as specified. (i) 300mm wide and average 250mm deep with bed slope 1 in 150 with initial depth of 100mm.	R.m	592.00

Sl. No.	Description of work	Unit	Quantity
27.00	RCC PRECAST SLAB		
27.01	Providing precast R.C.C slab over drain ,septic tank etc. in prop. 1:2:4 reinforced with 10mm M.S. bar @ 150mm centre both ways tying with 20 gauge black annealed wire with necessary shuttering , curing etc. complete including fixing in position as directed. a) 75mm thick slab	Sqm.	166.00
28.00	MS ANGLE/MS GRATING		
28.01	Providing fitting and fixing MS angle of required design for boundary wall all complete.	Kg	10400.00
28.02	MS GRATING Providing fitting and fixing of MS grating of required pattern for drain cover with MS flats/ square bars at required spacing in frame all round with MS angle all complete.	Kg	5237.00
29.00	BARBED WIRE:		
29.01	Providing, fitting and fixing of barbed wire on the existing M.S. angles post with seven strands of barbed wire 12 S.W. G.x 2pliesx 4 points at 75mm apart including supplying, fitting and fixing with galvanised staples 38mm x 38mm x 3mm sizes with existing posts of the fencing as directed, complete with strengthening of post and tightening of the barbed wire where necessary and as directed.	RM	6360
30.00	PVC GRATING:		
30.01	Providing, Fiting and fixing of FRP Grating , above drain including cutting where necessary finished complete at all levels as specified and directed. FRP Grating Size H25 616 X 1220 mm (closed border) [Analysis- 6]	sqm	27.00
30.02	Providing, Fiting and fixing of FRP Grating , above drain including cutting where necessary finished complete at all levels as specified and directed. FRP Grating Size H25 312 X 1220 mm (closed border)	sqm	209.00
31.00	GRILL WORKS:		
31.01	Providing, fitting and fixing M.S. grill of required pattern for windows/ clerestory windows/ opening with M.S. flats at required spacing in frame all round, square or round M.S. bars with round headed bolts and nuts or screws. II Ornamental grill (c) Fixed to Brickwork/P.C.C/R.C.C.	Kg	1350.00
32.00	MAN HOLE COVER		
32.01	Providing fitting and fixing (600x600)mm 90mm thick C.I. Man hole cover and frame of 25 Kg. weight complete as directed and specified	each	2.00
33.00	ALUMINIUM WORKS		
33.01	Aluminium doors:		

Sl. No.	Description of work	Unit	Quantity
	Providing, fitting and fixing anodised aluminium framed glazed doors with anodised aluminium frame made of 100mm x 45mm x 2.5mm section with door style of size 88mm x 45mm x 2.5mm, top rails 50mm x 45mm x 2mm lock rails 100mm x 45mm x 2mm and bottom rails 100mm x 45mm x 2.5mm fitted with glazing clip, special type rubber gasket complete including hydraulic floor		
	spring, pivot, tower bolt in each leaf, aluminium door handle, lock, angles, cleat etc complete as specified and directed by the department at all levels. (i) 6mm clear glass	Sq.m.	32.00
33.02	STRUCTURAL GLAZING Providing, fabrication and fixing of structural glazing made out of coloured Anodised aluminium mother frame 6 nos 1.2m each @ 1.819 Kg/m and subframe of 16 nos 0.60 m each @ 0.31 Kg/m of Jindal or equivalent and 10 mm toughen reflective/ clear glass of approved make and shade. The glass to be pasted using structural silicon (DC 995) and weatherseal silicon to be used (DC 789), the structure complete with all accessories as and where necessary.	Sqm	52.00
33.03	ALUMINIUM WINDOWS: Providing, fitting and fixing coloured anodised aluminium sliding windows and ventilators of standard sections of approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. (a) 2 Track sliding window (i) 6mm clear glass	Sqm	34.00
34.00 34.01	RAILING: Providing fitting and fixing Godrej SS 304 grade railing with pipes/ glass for different staircase, cutous areas, balcony, etc. with complete installation, Acrylic finish, etc. which is fitted with mid pipes of good quality steel. Moreover, depending on the requirement glass panels can also be foitted on specific railins. Good quality screws are provided for fixing up the railings. (a) SS Railing Steel with Wire Locator	Rm	28.00
35.00 35.01	SITE GRADING WORKS: Raising low site around the building with approved soil obtained from outside by truck carriage including breaking clods, dressing etc. complete including paying necessary forest royelty, sales tax, land compensation, municipal gate fees, if any monopoly duty etc. (profile measurement to be taken and 12.5% deduction for shrinkage to be made from total quantity) etc. complete as directed and specified. a) Within Guwahati City	Cum	240
36.00	DEEP TUBE WELL		

Sl. No.	Description of work	Unit	Quantity
36.01	Labour for test boring with 40mm (internal) dia G.I. Pipes including keeping surplus of earth and every 2.00m after first 3.00m depth and delivering the same in nearest P.W.D. camp in the small tin container (container scaffolding tools etc. will have to be arranged by the contractor at his own cost).	RM	350.00
36.02	Labour for boring hole for inserting tube well pipes through different soil/ rock media including hire charges of drill pipes, scaffolding, tools and plants as necessary and taking out the same and lowering pipes, fittings complete as directed by the Department. Bore hole of 200mm diameter	RM	350.00
36.03	Supplying, fitting and fixing pipes plain/bevel ended for casing, conforming to relevant IS codes of practice including supplying and fitting of tube well accessories, lowering of assembly pipes concentrically in the borehole followed by supplying and packing of pea gravel free from dirt, dust and other foreign materials in the annular space between the borehole and assembly pipes complete as directed by the Department.	RM	350.00
36.03A	PVC Pipe SUPREME /PRINCE / FUSION /SFMC Brand 160mm diameter		
36.04	Supplying fitting and fixing ISI approved PVC filter 3.00 metre long. v) 150mm diameter	EACH	10.00
36.05	Supplying, fitting and fixing suction pipes plain/bevel ended, conforming to relevant IS codes of practice including supplying and fitting of accessories, lowering of assembly pipes concentrically in the casing pipes complete as directed. A) G.I. pipe a) TATA / SAIL (Medium)socket should be welded to the pipes. 50mm diameter	RM	350.00
36.06	Supplying fitting and fixing check valve (non return valve) including thread to pipes. d) 50 mm dia	Each	5.00
36.07	Development of the tube well with compressor or by over pumping unit for 48 hours till sand free discharge is obtained	Job	1.00
36.08	Flushing, clearing, washing and watering of the tube well	Job	1.00
36.09	Supplying including installation, connection as approved by the Deptt., testing and commissioning of SUBMERSIBLE PUMP SET, Single Phase with steel cable rope and submersible cable complete as directed and specified by the deptt.		

Sl. No.	Description of work	Unit	Quantity
	Single phase Submersible motor pump set (Texmo / Crompton Greaves/ Aquatic/ CRI/ V-Guar suitable for 100 mm bore well and above. 2 HP STAGE 6 to 30 with control panel.	Each	2.00
36.10	Supplying fitting and fixing including necessary connection as approved by the Deptt.of Starter (Crompton Greaves/ Control & Switch Gear/ BCH/ L& T / Siemens make) of following type and capacity as specified and directed by the Department. (Crompton Greaves/ Control & Switch Gear/ BCH/ L& T / Siemens make) D.O.L Starter (Crompton Greaves/ Control & Switch Gear/ BCH/ L& T / Siemens make)0.5 TO 10 HP, 0.72 TO 20 A.	Each	1.00
37.00	HORTICULTURE WORKS:		
37.01	LAWN MAKING BY DIBBLING Supplying and dibbling of selected lawn grass [Doob grass (Cynodon dactylon), cushion grass (Axonopus affinis)] after preparing the land by ploughing / working to a depth of 40 -45 cm, removing of all unwanted debris (rubbles, pebbles, plant roots etc.), mixing of organic manure(10kg - 15kg/sq.m), levelling the surface and initial maintenance by proper and periodic rolling, mowing and irrigation etc.(as specified) for a period of six months from the date of dibbling including the application of recommended dose of fertilizers(N:P:K) mixture as specified and directed by the department.		
37.01A	(a) By Doob grass (Cynodon dactylon)	Sqm	995.00
37.01B	(b) By Carpet grass (Axonopus affinis)	Sqm	1160.00
37.02	Supplying and planting of house plants in required size of pot including filling the pot to the top surface with appropriate soil media of garden soil, river sand, cow-dung, leaf mould, fertilizer, pesticides as per specification and necessary maintenance for a period of 6 months from the date of planting complete as specified and directed . (Mixing of different ingredients of soil media to be made in presence of Deptt. official / Specialist concerned)		
37.02A	(A) With Fancy leaf caladium/Coleus (i) Using earthen pot of 30 cm dia.	each	65.00
37.02B	(B) With Indian rubber plant / Prayer plant (i) Using earthen pot of 30 cm dia.	each	55.00
37.02C	(C) With Fragrant dracaena / Silver net leaf / Philodendron / Devil's back bone /Peperomea/Croton (i) Using earthen pot of 30 cm dia.	each	45.00
37.02D	(D) With Peacock/spider/Umbrella (i) Using earthen pot of 30 cm dia.	each	45.00
37.02E	(E) With Maiden hair fern/Aloe/Boston fern/Swiss cheese plant/Forget me not (i) Using earthen pot of 30 cm dia.	each	45.00
37.02F	(F) With Mary Christmas begonia / Polypodium / Aluminium plant		

Sl. No.	Description of work	Unit	Quantity
	(l) Using earthen pot of 30 cm dia.	each	55.00
37.03	HEDGE PLANTING Supplying and planting of suitable plant materials for preparation protective / external hedge (50 cm wide) including the preparation of the ground by mixing organic manure and fertilizers as per specification and necessary maintenance for a period of one year from the date of planting complete as specified and directed . (B) ADOPTING CROSS WISE DOUBLE ROW PLANTING METHOD		
37.03A	(i) With Duranta	metre	65.00
37.03B	(ii) With Kamini	metre	65.00
37.03C	(iii) With Chinese Bamboo	metre	65.00
37.03D	(iv) With Thuja / Ixora	metre	65.00
37.04	EDGE PLANTING Supplying and planting of suitable plant materials for edge making / Internal hedge(20 cm wide) including the preparation of the ground by mixing organic manure and fertilizers as per specification and necessary maintenance for a period of one year from the date of planting complete as specified and directed . (B) ADOPTING CROSS WISE DOUBLE ROW PLANTING METHOD		
37.04A	(i) With Duranta	metre	85.00
37.04B	(ii) With Coleus	metre	85.00
37.04C	(iii) With Brindavan / Latifolius	metre	85.00
37.04D	(iv) With Acalypha wilkesiana	metre	85.00

Sl. No.	Description of work	Unit	Quantity
37.04E	(v) With Acer palmatum	metre	85.00
37.05	SHRUB PLANTING Supplying and planting of ornamental shrub (below 1'-0" height) including pit making (60 cm x 60 cm x 60 cm), filling the pit with appropriate soil media, manure and fertilizers as per specification and necessary maintenance for a period of one year from the date of planting complete as specified and directed .		
37.05A	(A) Radhachura / Krishnachura / Rat ki rani / Ixora / Jetuka	each	45.00
37.05B	(B) Allmanda / Khorika zai / May flower / Kamini / Kathanda / Tecoma / Acalypha / Bougainvillea / Dracaena / Togor / Nilakantha / Mussaenda	each	45.00
37.05C	(C) Korobi / Azalea	each	45.00
37.05D	(D) Thuja	each	45.00
37.05E	(E) Poinsettia / Forget me not	each	45.00
37.06	BED PLANTING Supplying and planting of Dahlia / Chrysanthemum / Gladiolus etc on the ground (bed planting, bed size 45 cm x 45 cm x 45 cm) including the preparation of the soil, providing organic manure and fertilizer, pesticides as per specification and necessary maintenance for a period of 4 months from the date of planting complete as specified and directed .	each	245.00
38.00	SANITARY		
38.01	Wash Basin Providing vitreous China wash basin with CI/MS brackets, C.P brass chain with plug,PVC waste pipe including painting of fittings and brackets, cutting and making good the walls wherever required. (Pillar cock, stop cocks, waste coupling are to be paid separately) Counter Top Basin (B) Hindware Make (a) White (i) Mini Oval (Cat.No.10051)	each	19.00
38.02	Towel Ring Providing, fitting and fixing Chrome Plated towel ring complete as directed and specified. Agmeco brand Elena (Cat.No.EL-00101)	each	19.00
38.03	Soap Dish		

Sl. No.	Description of work	Unit	Quantity
	Providing, fitting and fixing CP soap tray / soap dish complete as directed and specified. Agmaco Make Dolfree (Cat.No.DE-00102)	each	19.00
38.04	Mirror Providing fitting and fixing Decorative Mirror complete as directed and specified. Parryware Make (b) Size 600mm x 450mm	each	19.00
38.05	URINAL Providing fitting and fixing vitreous china flat back type lipped front urinal basin of with automatic flushing cistern with standard flush pipe and CP brass spreader and brass unions, etc. complete including painting of fittings and brackets, cutting and making good the walls & floors wherever required. C) Jaquar make a) White (i) Urinal (Cat. No.URS-WHT-0704) with Sensor (Cat. No.SNR-CHR-51097)	each	11.00
38.06	Pillar Cock Agmaco make Round	each	19.00
38.07	Bib Cock Supplying fitting and fixing C.P. bib cock 15mm dia of approved brand directed and specified. (G.I. & C.P pipes will be measured separately) Agmecobrand (i) Bib Cock without Flange CAT No.CC 00204/CAT No.CN 00204	each	16.00
38.08	C.I.GRATING Providing, fitting and fixing C.I grating to the floors complete as directed and specified. 100mm dia [Item no. 1.25.1 (b) (sanitary)]	each	47.00
38.09	Stop Cock Supplying fitting and fixing chrome plated (C.P.) stop-cock of approved brand and size as mentioned below as directed and specified.(G.I. & C.P pipes will be measured and paid separately) Agmaco make (b)15mm dia(Concealed)	each	55.00
38.10	EUROPEAN TYPE WATER CLOSET Providing fitting and fixing vitreous china pedestal type water closet (European type W.C pan 400mm high) with seat and lead ,CP brass hinges and rubber buffers , CI/MS brackets , 40 mm dia flush band with fittings including painting of fittings and brackets, required. (Flushing Cistern to be paid separately) A) Parryware make a) White (viii) Petite (S/P) (Cat No.C0287/88) (inclusive of seat cover)	each	14.00

Sl. No.	Description of work	Unit	Quantity
38.11	FLUSHING CISTERN Supplying fitting and fixing Chrome Plated (C.P.) flush cock of approved brand as directed and specified.(G.I. & C.P pipes will be measured and paid separately) Agmeco brand b) Flush cock Heavy duty Cat No.00507	each	14.00
38.12	Piping Providing and fitting fixing of polyvinyle chloride (CPVC) pipe having thermal stability for hot and cold water including all accessories like bend, tees, union etc. all bress threaded fittings i/c fixing the with clamps not more than 1.0 m spacing. This includes joining of pipes. (A) Exposed on walls		
38.12(a)	d) 2532(32mmOD) pipe	RM	240.00
38.12(b)	e) 3240(40mmOD) pipe (B) Concealed pipe with cutting chases & making good the walls	RM	140.00
38.12(c)	a) 1216(16mmOD) pipe	RM	380.00
38.12(d)	b) 1620(20mmOD) pipe	RM	313.53
38.13	PVC PIPES WITH BENDS,JUNCTIONS,TEES ETC. Supplying, fitting and fixing PVC pipes of 6 Kg/cm2 (Supreme/Prince) or other ISI approved including all accessories like bends, junction,tees etc joining ,fitting and fixing with clamps etc.as necessary complete at all levels including below G.L as directed and specified.		
38.13(a)	a) In exposed surfaces or in trenches.		
38.13(b)	(ii) 110mm dia.	RM	310.00
38.13(c)	(iv) 75mm dia.	RM	285.00
38.13(d)	(vi) 50mm dia	RM	80.00
39.0	PIPING NETWORK		
39.01	Supplying fitting, fixing, testing and commissioning of following capacity energy efficient motor (Siemens/ ABB/ Crompton Greaves or equivalent make as approved by the Deptt.) as specified and directed by the Department 4 - Pole 1500 rev/min, 415VD 50Hz, 3.7 kW/ 5 HP	Each	1.00
39.02	Supplying fitting and fixing Pipes with all necessary fittings in exposed or in trenches including trenching and refilling the same etc complete as directed B) uPVC pipe with uPVC fittings (Using uPVC high pressure pipe) (Using SUPREME/ PRINCE/ SFMC/ FUSION brand pipe)		
39.02A	x) 110mm diameter	Rm	75.00
39.02B	ix) 90mm diameter	Rm	65.00

Sl. No.	Description of work	Unit	Quantity
39.02C	vii) 63mm diameter	Rm	1000.00
39.02D	vi) 50mm diameter	Rm	1450.00
39.02E	v) 40 mm diameter	Rm	1650.00
39.03	Supplying fitting and fixing check valve (non return valve) including thread to pipes.		
39.03A	vii) 100mm diameter	Each	4.00
39.03B	iv) 50mm diameter	Each	25.00
39.03C	iii) 40mm diameter	Each	25.00
40.00	WATER TREATMENT PLANT		
40.01	Supplying fitting and fixing Water Treatment Plant as per the raw water quality. Rates includes water quality test.As per the test of water, treatment plant has to be designed. The works shall be carried out as per direction given by the archect.Rates also includes the required pump of approved make. (VI) 10000 liters capacity	each	1.00
41.00	WATER TANK:		
41.01	Supplying and placing plastic cylindrical vertical claused top (PCVC) tank of Sintex / Polycon / Patton make over the staging with manhole cover with locking and cleaning arrangement including providing pads of size as required for inlet and outlet pipes		
41.01(a)	1000 litre capacity (a) Sintex make	Each	7.00
42.00	ELECTRICAL WORKS:		
42.01	PANEL BOARD Supplying including installation, testing and commissioning of Readymade Panel board conforms to IS : 8623, IEC : 60439 made of Phosphatised powder painted wall mounting type complete with Ana log meter module cable Alley both LHS and RHS, Copper Bus bar, Din Rail, Neutral Bar, Earth Bar etc. with Provision for 1 No. 4 pole MCCB as incomer and provision for 8 Nos. FP MCCB out goings as specified and directed by the deptt. and comprising of the following electrical items: 1. Panel Board up to 250A to 400 A Incomer, O/G FP MCCBs 2. Meter Module- Digital (Provision for Ammeter, Voltmeter, Selector Switch, Control Fuses, Indicating lights, MCBs etc. 3. cable Alley 8 Way for incoming 250A (Incoming and Outgoing MCCB of reqd. rating will be measured and paid separately)	Each	1
42.02	Supplying installation testing and commissioning outdoor feeder panel with provision for Incomer) Incomer 160A (1 no. Outgoing 100A (3 nos) ENCLOSURES:- width 350mm height 1200mm		

Sl. No.	Description of work	Unit	Quantity
	<p>Rugged, corrosion-resistant enclosures, made of hot-dip galvanized sheet steel according to standards: ISO 1461, IEC 60439-1 and IEC 60439-5 for environment classed C1 and C2 to, ISO 12944-2. All below-ground parts have heavy-duty corrosion protection. To ensure an attractive and functional installation in the ground, A marking label indicates the ground level. With this type of installation, consideration must be given to the risk of condensation, dust, vibration and impacts. The ability of the enclosure to withstand external blows and impacts has been checked by testing at -50° C in accordance with the requirements for use in an Arctic climate in IEC 60439-5. The enclosure should have locking arrangement.</p> <p>Enclosures should satisfy below requirements</p> <ul style="list-style-type: none"> · Passes arctic climate tests. · The embossed areas on the door are compatible with most common marking systems. · Should have a option in upper section which can be used to house kWh meters or fitted with a mounting plate for various purposes · Degree of protection IP34D. 		
	BUSBARS:-		
	<p>With protection (IP2X) against accidental contact. Bus bars of continuously extruded aluminium sections, insulated with a layer of polyamide. The busbar has a screen-protected contact slot. This ensures safety regardless of where on the busbar the switching device is placed. Bus bars are available with rated currents from 400 to 2500 A. Rated current for phase- and neutral busbars. The stated rated current refers to the highest permitted current in any section of the busbar.</p> <p>SHOCK PROOF BUSBARS</p> <p>SWITCHING DEVICES:-</p> <p>Switching devices are available for both dazed and blade fuses. The switching devices can be arranged in any order, regardless of rated current. All parts have a high degree of protection and are safe.</p> <ul style="list-style-type: none"> · Switching devices 100-1600 A. · Easy to add new switching devices to existing distribution boards. · Always voltage-free ("dead") when changing fuses · Switching devices and bus bars combine to form a modular system. Each Module is 12.5 mm. · The compact design of the switching devices make)s them suitable for use in many Different types of distribution boards. · All switching devices have a utilization category so that they can be used in cable distribution cabinets, substations and other distribution boards. · AC-23B according to IEC 60947-3 · Possibility for parallel operation Tested up to 1000 V for installation in dry environments · Should be in compact in nature · Should have the facility of isolating the all the fuses at one time with robust insulating arrangement. As per drawing below 		

Sl. No.	Description of work	Unit	Quantity
	<p>All switching devices come complete with terminal connection for both copper and aluminium conductors. for aluminium conductors have been tested to Swedish Standard SEN 24 15 10 equivalent to VDE 0220/1 or IEC 61238-1.</p> <p>Adapter for circuit-breaker type Tmax T3 for 250 A & T5 630 A from ABB SACE.</p> <ul style="list-style-type: none"> Degree of protection IP2X. Allows circuit-breakers to be mounted on a live busbar system Fits to all Kabeldon bus bars. Meets the requirements of IEC 60947-1. <p>Development of creep age current resistant materials: - Outdoors, cable accessories are exposed to major stresses, e.g. UV radiation from the sun and creep age currents caused by precipitation and pollution. cable accessories are installed everywhere on the face of the planet: in humid tropical environments, in extreme cold or in the scabelling salt mist of coastal regions. Materials and designs for outdoor use that are only minimally Effected by external factors. In the case of cable terminations, it is the insulators,</p> <p>Both in porcelain and composite material. Products are to be tested under outdoor weather conditions.</p>	Each	2
42.03	Supplying with fitting and fixing TPN 415V 50Hz AC23A duty double break open execution panel mounting cubical type Switch Disconnection as approved by the Deptt.for Fuse Unit(IP-20 protection) with HBC fuse of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.		
42.03 A	C&S, Havells, Indo Asian, HPL, GECO make) 63A	Each	5
42.03 B	125A	Each	3
42.03 C	250A	Each	3
42.04	Supplying with fitting and fixing panel mounting open execution 25KA 415V 50Hz 4P MCCB (Ics=Icu, adjustable Ir setting 0.7) without enclosure) of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.		
42.04 A	25 KA 415V 50 Hz 4P MCCB (Schneider, legrand, Siemens, Indo Asian make) 40A	Each	5
42.04 B	63A	Each	4

Sl. No.	Description of work	Unit	Quantity
42.04 C	100A	Each	5
42.05 A	<p>Supplying with fitting and fixing panel mounting open execution 35/36KA 415V 50Hz 4P MCCB (Ics=Icu, adjustable Ir setting 0.7) without enclosure) of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.</p> <p>35/36 KA 415V 50 Hz 4P MCCB (Schneider, legrand, Siemens make) 160A</p>	Each	1
42.05 B	250A	Each	1
42.06	<p>7 SEGMENT FP MCCB Incomer DB</p> <p>Supplying with fitting and fixing 7segment sheet steel, phosphatised, powder painted surface mounting TPN DB (IP 20) incorporated with bus-bar, Neutral link, Earth bar and din rail etc fitted on wall with grouting nuts & bolts as reqd. with provision for 125A FP MCCB as incomer, DP MCB/RCCB/RCBO as sub incomer and SP MCB as outgoing complete with making necessary connection as approved, specified and directed by the deptt.</p> <p>8way (8+12+24)</p>	Each	8
42.07 A	<p>Supplying with fitting and fixing single Pole 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.</p> <p>C Series (Schneider MG, legrand, Hager make) 6A</p>	Each	20
42.07 B	20A	Each	10

Sl. No.	Description of work	Unit	Quantity
42.08	Supplying and fixing 18 S.W.G sheet steel metal boxes of the following sizes in surface Wiring system with suitable size of 3 mm thickness phenolic laminated sheet cover on the front face of the boxes including painting etc. as required and specified by the department. 250 mm x 300 mm x 60 mm deep (Nominal size)	Each	31
42.09	Supplying fitting and fixing industrial Plug & Socket in surface mounting SPN sheet steel powder painted MCB DB incorporated with MCB DIN rail, neutral link Earth bar of the following rating of DP MCB complete with making necessary connection etc. as specified and directed by the Deptt. 20A Capacity. (ABB, Schneider MG, legrand, Hager make)	Each	20
42.10	Wiring to 5 a pin 6 Amps plug point with 1.5 sq. mm P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nikko / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed 2 mm thick/ heavy rigid ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system including 5 pin 6 Amps flush type plug socket and 6 Amps F/T switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.), GI/ MS switch board (I.S.I. mark with phenolic laminated sheet cover including earth continuity with 1.5 sq. mm. cable to third pin of the plug socket etc. as required complete, when placed elsewhere. Medium point up to 6.00 metre. Length.	Each	17
42.1	Supplying including fitting fixing of following star rated A.C. Ceiling fan complete with all accessories like down rod, canopy etc. of following sweeps with making necessary connection cable, as approved by the Deptt.s etc. as required complete and as directed by the Department [Without regulator]. (ORIENT PSPO make / Usha make/ CROMPTON make/ Havells/ ATC/ V GAURD make)		
	Energy efficient 5-star 1200 mm sweep. ORIENT PSPO / Usha / CROMPTON / Havells/ ATC or equivalent make	Each	25
42.12	Supplying including fitting fixing of following A.C. Wall fan in the wall of following sweeps with making necessary connection as approved by the Deptt.)as required complete and as directed by the Department.		
42.12 A	(CROMPTON /ORIENT/Havells/USHA or equivalent make)		
42.12 B	V2 with metal blade, 450 mm sweep	Each	10
42.13	CEILING LAMP		

Sl. No.	Description of work	Unit	Quantity
	<p>Supplying, installation, testing and Commission of the following indoor Decorative recessed typed mirror optics down lighter luminaries complete with all accessories such as ballast, starter etc. In the false ceiling type Armstrong /Gypsum or similar ceiling mounting with necessary support with 1.5 sq.mm. P.V.C. insulated S.C.copper conductor as required and as directed by the department</p> <p>15W, BBS 170 1 X DLED 5000 PSU-WH Phillip make GREEN LED recessed mounted down lighter with latest LED technology. Or equivalent (Equivalent will be selected by the deptt considering the mother items rate) (equivalent WIPRO/ JAQUAR make).</p>	Each	35
42.14	<p>BRACKET LAMP</p> <p>Supplying fitting and fixing of LIGHTSTRIP model 69113/55 or equivalent LED 0.03 W X 6 (or equivalent as approved by the Deptt.) on the wall/ COVE with all accessories including connection as required complete.</p>	Each	35
42.15	<p>STREET LIGHT</p> <p>Supplying with fitting & fixing of the following Street light luminaries complete with lamp in the existing pole including making necessary connection as approved by the Deptt.)with 2 ×1.50 sq.mm F.R. multistrand and P.V.C. insulated single core copper cable as specified and directed by the department.</p> <p>Philips make) Type HGS120 1xTL-D36W IC For lamp 1xTL-D36W.. / Crompton Greaves make) SFE1614HSB/AL For lamp 1x36W FTL / Havells make): LHRF 08104011 For lamp 1x36W FTL (AL)</p>	Each	50
42.16	<p>Fitting and fixing of street light with MS pipe with clamp on the top of the boundary wall as per direction given by the architect. The rate includes cutting and making the good all complete.</p>	Kg	150
42.17	<p>POST TOP LANTEM</p> <p>Supplying fitting and fixing of LED post top lantern BGP150 LED1000/WW PSU 220-240V 7043 42 w protection IP 65 /IK 10 / Class 1 Philips make on existing GI pipe pole with foundation.</p>	Each	2
42.18	<p>DISPLAY LAMP</p> <p>Supplying, installation, testing and commissioning of the following CFL/Fluorescent luminaries complete with all accessories such as ballast, starter etc in the ceiling including supplying ball and socket arrangement suspension down rod of 19 mm dia H.G conduit of required length max 0.75 cm including making necessary connection cable, as approved by the Deptt.)with 1.5 sq. mm PVC insulated single core copper conductor as reqd. and as directed by the Deptt.</p>		

Sl. No.	Description of work	Unit	Quantity
	WVF 84228 SGA 2 x 28 W FTL T5) WIPRO AEROS-DP make Surface / Suspension mounted with double parabolic louvers with FTL T5) Lamp. or equivalent (Equivalent will be selected by the deptt considering the mother items rate) (equivalent PHILIPS/ JAQUAR make).	Each	20
42.19	UNDER WATER LAMP Supplying, installation, testing and commission of the following outdoor flood light of LED/ MH / HPSV luminaries complete with all accessories such as ballast, capacitor, ignitor and driver as required complete with necessary support / foundation with 2.5 sq.mm. P.V.C. insulated S.C. copper conductor as required and as directed by the department RVP 339 1 X CDMTD 70W R Phillips make) Unifold RVP339 Integral floodlight luminaries with die Cast Aluminium housing & toughened glass cover (IP-65) ingress protection and rectangular R reflector for planar symmetric optical distribution. Or equivalent (Equivalent will be selected by the deptt considering the mother items rate) (Havells/ WIPRO/ BAJAJ/ CROMPTON / HPL/ SOLAR/ JAQUAR make).	Each	28
42.20	GARDEN LAMP Supplying and fixing of Jaquar or equivalent Philips/ Wipro LED outdoor light fittings complete with all accessories including connection cable, as approved by the Deptt.s etc. as required. LED Bollard 4W	Each	100
42.21	FOOT LAMP Supplying with fitting and fixing of LED foot lamp with Box MODEL RANGE LEGRAND (MYRIUS), ANCHOR (VIOLA), MK (WRAPAROUND/PLUS), ABB (CHEIRON), KOLORS (KREST), SCHNEIDER (VIVACE), CRATREE including making necessary connection as per direction of department.	Each	50
42.22	FLOOD LIGHT Supplying, installation, testing and commission of the following outdoor flood light of LED/ MH / HPSV luminaries complete with all accessories such as ballast, capacitor, ignitor and driver as required complete with necessary support / foundation with 2.5 sq.mm. P.V.C. insulated S.C. copper conductor as required and as directed by the department QVF135 X MHNTD 70 W Phillips make) floodlight luminaries with Cast Aluminium housing & toughened glass cover including separate CG box. Or equivalent (Equivalent will be selected by the deptt considering the mother items rate) (Havells/ WIPRO/ BAJAJ/ CROMPTON / HPL/ SOLAR/ JAQUAR make).	Each	50
42.23	Wiring for circuit wiring with P.V.C. insulated single core unsheathed industrial flexible cable conforming to IS-694: 1990 with flexible bright annealed copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed PVC 2 mm thick conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system.		

Sl. No.	Description of work	Unit	Quantity
42.24	With 4 x 10 sq. mm. + earth continuity with 2x6 sq. mm. cable in 40 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit. Wiring for circuit wiring with P.V.C. insulated single core unsheathed industrial flexible cable conforming to IS-694: 1990 with flexible bright annealed copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface/ recessed PVC 2 mm thick conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system.	Metre	450
42.24 A	With 2 x 2.5 sq. mm. + earth continuity with 1x1.5 sq. mm. in 20 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre	150
42.24 B	With 2 x 6 sq. mm. + earth continuity with 1x 4 sq. mm. cable in 25 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	Metre	150
42.25	Wiring for light/ fan/ call bell point with 2x1.5 sq. mm. P.V.C. insulated single core unsheathed industrial (Multistrand) cable HFFR/ZHFR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system with 2 mm thick 20mm dia rigid low halogen SFT PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) including 6 Amp flush type switch/ bell push (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) in GI/ MS switch board (ISI marked) with phenolic laminated sheet cover ,ceiling rose (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.) etc. complete		
42.25 A	Medium point up to 6.00 metre. Length.	Each	140
42.25 B	Long point up to 10.00 metre. Length.	Each	75
42.26	Supplying with fitting and fixing single Pole 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt. C Series (Schneider MG, legrand, Hager make)		
42.26 A	6A	Each	55
42.26 B	20A	Each	60

Sl. No.	Description of work	Unit	Quantity
42.27	Supply and laying of following size PVC/XLPE insulated and PVC sheathed 1.1 KV G Solid Aluminium conductor up to 10 sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, Armour (Aluminium for single core up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm.3x10 sq mm,4x6 sq mm balance all galvanised steel strip) , extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908(Part 1) 1988 armoured U.G. cable U.G. cable laid in ground/partially in air (as required for termination over ground including excavation of cable trench up to depth of 75cm, refilling, protective brick covering, Sand cushioning etc complete handling of surplus spoil, debris et to proper place as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make) .		
42.27 A	35.00 Sq. mm.3 & 1/2 Core armoured U.G. cable	Metre	40
42.27 B	95.00 Sq. mm.3 & 1/2 Core armoured U.G. cable	Metre	40
42.27 C	16.00 Sq. mm.4 Core armoured U.G. cable	Metre	140
42.28	Supply and laying of following size Power/Control Copper cables, Solid Copper conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, Unarmoured/Armour (Galvanised for cables up to 10 x 1.5 sq mm.8 x 2.5 sq mm.2 x 10 sq mm.3 x 10 sq mm.4 x 6 sq mm balance all galvanised steel strip) , extruded PVC Type ST2 Sheathed, 650/1100 V grade as per IS 7098 (Part 1) 1988, U.G. cable laid in ground/partially in air (as required for termination over ground including excavation of cable trench up to depth of 75cm, refilling, protective brick covering, Sand cushioning etc complete handling of surplus spoil, debris et to proper place as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make) .		
	10.00 Sq.mm 2 Core armoured U.G. cable	Metre	250
42.29	Supply and laying of following size Solid Aluminium conductor up to 10 sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, Armour (Aluminium for single core up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm.3x10 sq mm,4x6 sq mm balance all galvanised steel strip) , extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908(Part 1) 1988, LT armoured U.G. cable laid in pucca flooring, road crossing, drain crossing as per site requirement and partially in air to connection as approved by the Depts. the control switch, through medium duty G.I. pipe (Tata/ Nezone make or equivalent as approved by the Deptt) bend and socket including excavation and refilling the trench and making good damage done as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make)		
	Core - 2 A2XWaY A2XFaY 4.00 Sq.mm 2 Core U.G. cable in 25mm dia medium duty G.I. pipe	Metre	600

Sl. No.	Description of work	Unit	Quantity
42.30	Supply and fixing 32 mm mm dia 2.00mm average wall thickness heavy rigid PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) on surface system including painting etc as required:	Metre	300
42.31	Havells make new generation, post-top, energy saving, environmental friendly, long life aesthetically designed with symmetrical light distribution, spon aluminium landscape luminaire with high power LED as light source.		
42.31A	25W 5700K	Each	50
42.31B	40W 5700K	Each	25
42.32	Havells make poles asthetiacally designed decorative hot dipped galvanised mild steel step pole with grey powder finish compitable with all havells post top range.	Each	50
42.32A	3.5 M Height		
42.32B	6.0 M Height	Each	25
42.33	TRANSFORMER Supplying, installation testing and commissioning of the following rating copper wound indoor / out door type transformer complete including the payment to be made to power supply authority for supervision charge, labour charge, cost of L.T/H.T metering etc. (excluding the cost of load security) and making necessary arrangement for charging approval of the sub-station from the competent authority as directed and specified by the department. Transformer should be as per CEA guidelines as ammended up to date upto 200 KVA star rating up to 5 star, above 200KVA as per CEA guidelines for losses along with LV enclosure. 100 KVA,50Hz.11/0.433 KV. Oil filled transformer with Off Circuit tap change.	Each	1
42.34	CABLE Supply and laying of following size PVC/XLPE insulated and PVC sheathed 1.1 KV G Solid Aluminium conductor up to 10 sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, Armour (Aluminium for single core up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm.3x10 sq mm,4x6 sq mm balance all galvanised steel strip) , extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908(Part 1) 1988 armoured U.G. cable U.G. cable laid in ground/partially in air (as required for termination over ground including excavation of cable trench up to depth of 75cm, refilling, protective brick covering, Sand cushioning etc complete handling of surplus spoil, debris et to proper place as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make) . 3 & 1/2 Core A2XFY 150.00 Sq. mm.3 & 1/2 Core armoured U.G. cable	Metre	500.00

Sl. No.	Description of work	Unit	Quantity
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Section 8
(Part of Financial Bid)
Form of Bid
(The Bidder shall fill in and submit this Bid form with this bid)

To,

Chief Executive Officer
GMDA. Bhangagarh, Guwahati-05

Description of work: **“Development of Park at the the site of Assam Khadi and Village Industries Board, Hengrabari, Guwahati”**

I/We offer to execute the work described above in conformity with the conditions of contract, specification, drawings, Bill of quantities for

a) Item rate contract Total Bid Price
Rs.
(in figures)

2. We undertake to commence the works on receiving the Notice to proceed with work in accordance with the contract documents.
3. This Bid and your written acceptance of its shall constitute a binding contract between us. We understand that you are not bound to accept the lowest or bid you receive.

Authorized Signature:_____

Name and Title of Signatory: _____

Name of Bidder:_____

Address: _____