

Section -IV
Bidding Forms

Section 4 - Bidding Forms

This Section contains the forms which are to be completed by the Bidder and submitted as part of his Bid.

Table of Forms

Letter of Technical Bid	4-2
Letter of Price Bid (to be submitted in Price Bid Envelope)	4-3
Bid Security	4-4
Technical Proposal.....	4-5
Personnel	4-6
Form PER – 1: Proposed Personnel	4-6
Form PER – 2: Resume of Proposed Personnel	4-7
Equipment	4-8
Site Organization	4-9
Method Statement.....	4-10
Mobilization Schedule	4-11
Construction Schedule	4-12
Bidder’s Qualification.....	4-13
Form ELI - 1: Bidder’s Information Sheet	4-14
Form ELI - 2: JV Information Sheet.....	4-15
Form LIT – 1: Pending Litigation.....	4-16
Form FIN - 1: Historical Financial Performance	4-17
Form FIN - 2: Average Annual Construction Turnover.....	4-18
Form FIN – 3: Availability of Financial Resources	4-19
Form FIN- 4: Financial Resources Requirement.....	4-20
Form EXP – 1(a): Contracts of Similar Size and Nature.....	4-21
Form EXP - 1(b): Construction Experience in Key Activities.....	4-22
Annexure	4-23
Schedules.....	4-24
Schedule of Payment Currencies	4-24
Tables of Adjustment Data	4-25
Bill of Quantities (to be submitted in Price Bid Envelope).....	4-26

Letter of Technical Bid

Date:

NCB No.: **NERCCDIP/TR-02/SHG/PH2/SWM/04**

Invitation for Bid No.: **SIPMIU/MEG/1/2015/1**

To:

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB) 8;
- (b) We offer to execute in conformity with the Bidding Documents the following Works: **Procurement of Construction of Additional Landfill Area of 8500 sqm. and Ancillary Works (Phase 2) at Marten, Shillong.**
- (c) Our Bid consisting of the Technical Bid and the Price Bid shall be valid for a period of **120** days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (d) Our firm, including any subcontractors or suppliers for any part of the Contract, has nationalities from eligible countries in accordance with ITB 4.2.
- (e) We, including any subcontractors or suppliers for any part of the contract, do not have any conflict of interest in accordance with ITB 4.3;
- (f) We are not participating, as a Bidder in more than one bid in this bidding process in accordance with ITB 4.3(e), other than alternative offers submitted in accordance with ITB 13;
- (g) Our firm, its affiliates or subsidiaries, including any Subcontractors or Suppliers for any part of the contract, has not been declared ineligible by ADB, under the Employer's country laws or official regulations or by an act of compliance with a decision of the United Nations Security Council;
- (h) We are not a government owned entity / We are a government owned entity but meet the requirements of ITB 4.5; *
- (i) We agree to permit ADB or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by ADB.
- (j) If our Bid is accepted, we commit to mobilizing key equipment and personnel in accordance with the requirements set forth in Section 6 (Employer's Requirements) and our technical proposal, or as otherwise agreed with the Employer.

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date

* Use one of the two options as appropriate.

Letter of Price Bid

[to be submitted in Price Bid Envelope]

Date:

NCB No.: **NERCCDIP/TR-02/SHG/PH2/SWM/04**

Invitation for Bid No.: **SIPMIU/MEG/1/2015/1**

To:

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB) 8;
- (b) We offer to execute in conformity with the Bidding Documents and the Technical Bid submitted for the following Works: **Procurement of Construction of Additional Landfill Area of 8500 sqm. and Ancillary Works (Phase 2) at Marten, Shillong.**
- (c) The total price of our Bid, excluding any discounts offered in item (d) below is:
- (d) The discounts offered and the methodology for their application are:
- (e) Our Bid shall be valid for a period of **120** days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our Bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents;
- (g) We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: *

Name of Recipient	Address	Reason	Amount
.....
.....

- (h) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and
- (i) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
- (j) We agree to permit ADB or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by ADB.

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date

* If none has been paid or is to be paid, indicate "none".

Bid Security

Bank Guarantee

.....*Bank's Name, and Address of Issuing Branch or Office*.....
Beneficiary: *Name and Address of Employer*
Date:

Bid Security No.:

We have been informed that *name of the Bidder*. (hereinafter called "the Bidder") has submitted to you its bid dated (hereinafter called "the Bid") for the execution of
 *name of contract* under Invitation for Bids No. ("the IFB").

Furthermore, we understand that, according to your conditions, bids must be supported by a bid guarantee.

At the request of the Bidder, we *name of Bank*. hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *amount in figures*
 (. *amount in words*) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- (a) has withdrawn its Bid during the period of bid validity specified by the Bidder in the Letter of Technical Bid and Letter of Price Bid; or
- (b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"); or
- (c) having been notified of the acceptance of its Bid by the Employer during the period of bid validity, (i) fails or refuses to execute the Contract Agreement, or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB or (iii) fails or refuses to furnish a domestic preference security, if required.

This guarantee will expire: (a) if the Bidder is the successful Bidder, upon our receipt of copies of the Contract Agreement signed by the Bidder and the performance security issued to you upon the instruction of the Bidder; and (b) if the Bidder is not the successful Bidder, upon the earlier of (i) our receipt of a copy your notification to the Bidder of the name of the successful Bidder; or (ii) twenty-eight days after the expiration of the Bidder's bid.

Consequently, any demand for payment under this guarantee must be received by us at the office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458.

.....*Bank's seal and authorized signature(s)*.....

Note: All italicized text is for use in preparing this form and shall be deleted from the final document

Technical Proposal

Personnel

Equipment

Site Organization

Method Statement

Mobilization Schedule

Construction Schedule

Others

Personnel

Form PER – 1: Proposed Personnel

Bidder shall provide the details of the proposed personnel and their experience records in the relevant Information Forms below for each candidate:

1.	Title of position*
	Name
2.	Title of position*
	Name
3.	Title of position*
	Name
4.	Title of position*
	Name
5.	Title of position*
	Name
6.	Title of position*
	Name
etc.	Title of position*
	Name

*As listed in Section 6 (Employer's Requirements).

Form PER – 2: Resume of Proposed Personnel

Position		
Personnel information	Name	Date of birth
	Professional qualifications	
Present employment	Name of employer	
	Address of employer	
	Telephone	Contact (manager / personnel officer)
	Fax	E-mail
	Job title	Years with present employer

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

From	To	Company / Project / Position / Relevant technical and management experience

Equipment

Form EQU: Equipment

The Bidder shall provide adequate information and details to demonstrate clearly that it has the capability to meet the equipment requirements indicated in Section 6 (Employer's Requirements), using the Forms below. A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder.

Item of Equipment	
Equipment Information	Name of manufacturer
	Model and power rating
	Capacity
	Year of manufacture
Current Status	Current location
	Details of current commitments
Source	Indicate source of the equipment <input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased <input type="checkbox"/> Specially manufactured

Omit the following information for equipment owned by the Bidder.

Owner	Name of owner	
	Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreements	Details of rental / lease / manufacture agreements specific to the project	

Site Organization

(Note: Evaluation of the Bidder's Site Organization will include an assessment of the Bidder's capacity to mobilize key personnel for the Contract consistent with its proposal regarding work methods, scheduling, and material sourcing in sufficient detail and fully in accordance with the requirements stipulated in Section 6 (Employer's Requirements)).

Method Statement

Mobilization Schedule

Construction Schedule

(Note: Evaluation of the Bidder's Construction Schedule will include an assessment of the Bidder's technical capacity to mobilize equipment for the Contract consistent with its proposal regarding work methods, scheduling, and material sourcing in sufficient detail and fully in accordance with the requirements stipulated in Section 6 (Employer's Requirements)).

Bidder's Qualification

To establish its qualifications to perform the contract in accordance with Section 3 (Evaluation and Qualification Criteria) the Bidder shall provide the information requested in the corresponding Information Sheets included hereunder.

Form ELI - 1: Bidder's Information Sheet

Bidder's Information	
Bidder's legal name	
In case of JV, legal name of each partner	
Bidder's country of constitution	
Bidder's year of constitution	
Bidder's legal address in country of constitution	
Bidder's authorized representative (name, address, telephone numbers, fax numbers, e-mail address)	
<p>Attached are copies of the following original documents.</p> <p><input type="checkbox"/> 1. In case of single entity, articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and 4.2.</p> <p><input type="checkbox"/> 2. Authorization to represent the firm or JV named in above, in accordance with ITB 20.2.</p> <p><input type="checkbox"/> 3. In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 4.1.</p> <p><input type="checkbox"/> 4. In case of a government-owned entity, any additional documents not covered under 1 above required to comply with ITB 4.5.</p>	

Form ELI - 2: JV Information Sheet

Each member of a JV must fill in this form

JV / Specialist Subcontractor Information	
Bidder's legal name	
JV Partner's or specialist Subcontractor's legal name	
JV Partner's or specialist Subcontractor's country of constitution	
JV Partner's or specialist Subcontractor's year of constitution	
JV Partner's or specialist Subcontractor's legal address in country of constitution	
JV Partner's or specialist Subcontractor's authorized representative information (name, address, telephone numbers, fax numbers, e-mail address)	
<p>Attached are copies of the following original documents.</p> <p><input type="checkbox"/> 1. Articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and 4.2.</p> <p><input type="checkbox"/> 2. Authorization to represent the firm named above, in accordance with ITB 20.2.</p> <p><input type="checkbox"/> 3. In the case of government-owned entity, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITB 4.5.</p>	

Specialist Subcontractor is a specialist enterprise engaged for highly specialized processes which cannot be provided by the main Contractor.

Form LIT – 1: Pending Litigation

Each Bidder or member of a JV must fill in this form if so required under Criterion 2.2 of Section 3 (Evaluation and Qualification Criteria).

Pending Litigation			
<input type="checkbox"/> No pending litigation <input type="checkbox"/> Below is a description of all pending litigation involving the Bidder (or each JV member if Bidder is a Joint Venture).			
Year	Matter in Dispute	Value of Pending Claim in INR	Value of Pending Claim as a Percentage of Net Worth

Form FIN - 1: Historical Financial Performance

Each Bidder or member of a JV must fill in this form

Financial Data for Previous Three Years [INR]		
Year 1: 2011-12	Year 2: 2012-13	Year 3:2013-14

Information from Balance Sheet

Total Assets			
Total Liabilities			
Net Worth			
Current Assets			
Current Liabilities			

Information from Income Statement

Total Revenues			
Profits Before Taxes			
Profits After Taxes			

- Attached are copies of financial statements (balance sheets including all related notes, and income statements) for the last three (3) years, as indicated above, complying with the following conditions.
- Unless otherwise required by Section 3 of the Bidding Document, all such documents reflect the financial situation of the legal entity or entities comprising the Bidder and not the Bidder's parent companies, subsidiaries or affiliates.
 - Historic financial statements must be audited by a certified accountant.
 - Historic financial statements must be complete, including all notes to the financial statements.
 - Historic financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).

Form FIN - 2: Average Annual Construction Turnover

Each Bidder or member of a JV must fill in this form

The information supplied should be the Annual Turnover of the Bidder or each member of a JV in terms of the amounts billed to clients for each year for work in progress or completed, in INR or its equivalent in US Dollars at the rate of exchange at the end of the period reported.

The information furnished must be related to the legal entity or entities comprising the Bidder and not the Bidder's parent companies, subsidiaries or affiliates.

Annual Turnover Data for the Last 3 Years (Construction only)			
Year	Amount Currency	Exchange Rate	INR
Average Annual Construction Turnover			

Form FIN – 3: Availability of Financial Resources

Specify proposed sources of financing, such as liquid assets, lines of credit, and other financial resources, other than any contractual advance payment available to meet the financial requirements for the subject contract or contracts, as indicated in FIN-4 of Section 3 (Evaluation and Qualification Criteria). The information furnished must be related to the legal entity or entities comprising the Bidder and not the Bidder's parent companies, subsidiaries or affiliates.

Bidder shall also submit certificates issued by the respective Bank or Financial Institution in respect of Cash-Credit Limit sanctioned by the Bank or Financial Institution, if Bidder intends to claim any such financial resource. Such certificate of Cash-Credit Limit should have been issued not before one year prior to the deadline for bid submission and should be valid as on the deadline for bid submission.

Financial Resources		
No.	Source of financing	Amount (INR)
1		
2		
3		

¹ *Liquid Assets mean cash and cash equivalents, short-term financial instruments, short term available-for-sale-securities, marketable securities, trade receivables, short-term financing receivables and other assets that can be converted into cash within one year*

Form FIN- 4: Financial Resources Requirement

Bidder (or each JV partner) should provide information indicated below in order to calculate the aggregated financial resources requirement, which requirement equals the sum of: (i) the Bidder's (or each JV partner's) current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued and (ii) financial resources requirement for subject contract as determined by the Employer. Bidder must also disclose any other financial obligations that could materially affect the implementation of subject contract if such contract were to be awarded to the Bidder.

Financial Resources Requirement						
No.	Name of Contract	Employer's Contact (Address, Tel, Fax)	Contract Completion Date	Remaining Contract Period in months (A)¹	Outstanding Contract Value (B)²	Monthly Financial Resources Requirement (B / A)
1						
2						
3						
4						
A. Cumulative Financial Resources Requirement for Current Contract Commitments ³						INR
B. Financial Resources Requirement for Subject Contract (Employer to specify)						INR 21,875,000.00
Financial Resources Requirement (Sum of A and B)						INR

¹ Remaining contract period to be calculated from 28 days prior to bid submission deadline.

² Remaining Outstanding Contract Values to be calculated from 28 days prior to the bid submission deadline (INR or its US\$ equivalent based on the foreign exchange rate as of the same date).

³ Bidder should calculate this amount based on the sum of Monthly Financial Resources Requirements for Each Current Works Contract based on the following calculation:

Estimated Contract Value (Inclusive of Taxes and Duties)
 Completion Period in Months

Form EXP – 1: Contracts of Similar Size and Nature

Fill up one (1) form per contract.

Contract of Similar Size and Nature		
Contract No of	Contract Identification	
Award Date	Completion Date	
Total Contract Amount	INR	
If partner in a JV or subcontractor, specify participation of total contract amount	Percent of Total	Amount
Employer's Name Address Telephone/Fax Number E-mail		
Description of the similarity in accordance with Criteria 2.4.1 of Section 3		
<p>Participation in at least one contract that has been successfully or substantially completed within the last five (5) years and that is similar to the proposed works, where the value of the Bidder's participation exceeds INR140 million. A certificate from the department or client about successful / substantial completion of the above mentioned contract to be enclosed along with the bid document.</p> <p>The similarity of the Bidder's participation shall be based on the physical size, nature of works, complexity, methods, technology or other characteristics as described in Section 6, Employer's Requirements.</p>		

Form EXP - 2: Construction Experience in Key Activities

Fill up one (1) form per contract

Contract with Similar Key Activities		
Contract No of	Contract Identification	
Award Date	Completion Date	
Total Contract Amount	INR	
If partner in a JV or subcontractor, specify participation of total contract amount	Percent of Total	Amount
Employer's Name Address Telephone Number Fax Number E-mail		
Description of the key activities in accordance with Criteria 2.4.1 of Section 3		
<p>For the above or other contracts executed during the period stipulated in 2.4.1 above, a minimum construction experience in the following key activities:</p> <p>i). Earthwork excavation of quantity not less than 36,600 cum</p> <p>ii) Shall have at least executed one RCC retaining wall of minimum 6.0m height or a RCC framed structure of minimum 9.0m using mechanized equipment and tubular scaffolding and sturdy shuttering</p>		

Annexure

Confirmation of Purchase and Compliance of Standard Specifications (Civil Works)

I/We hereby certify that I/We have procured one copy of each of the publications ;
“Standard Specifications (Civil Works)”- of **Vol-III**

I/We have read the above publications and hereby confirm that I/We agree to comply
with the Provision of the above documents.

Bidder's Signature and Stamp

Date:

Schedules

Schedule of Payment Currencies

For*insert name of Section of the Works*.....

Separate tables may be required if the various sections of the Works (or of the Bill of Quantities) will have substantially different foreign and local currency requirements. In such a case, the Employer should prepare separate tables for each Section of the Works.

	A	B	C	D
Name of Payment Currency	Amount of Currency	Rate of Exchange to Local Currency	Local Currency Equivalent $C = A \times B$	Percentage of Net Bid Price (NBP) $\frac{100 \times C}{NBP}$
Local currency		1.00		
Foreign Currency #1				
Foreign Currency #2				
Foreign Currency #				
Net Bid Price				100.00
Provisional Sums Expressed in Local Currency		1.00		
BID PRICE				

- Note -

The rates of exchange shall be the selling rates 28 days prior to the deadline for submission of bids published by the source specified in BDS 15.

Tables of Adjustment Data

Index Code	Index Description	Source of Index	Base Value and Date	Bidder's Local Currency Amount	Bidder's Proposed Weighting
a	Nonadjustable	—	—	—	A: 0.15
b	Labour				B: 0.40
c	Materials				C: 0.45
					D: _____
					E: _____
Total					1.00

Name of Currency:

If the Bidder wishes to quote in more than one foreign currency, this table should be repeated for each foreign currency.

Index Code	Index Description	Source of Index	Base Value and Date	Bidder's Currency in Type/Amount	Equivalent in FC1	Bidder's Proposed Weighting
	Nonadjustable		—	—		A: 0.15 _____
		Not Applicable				B: _____
						C: _____
						D: _____
						E: _____
Total						1.00

Bill of Quantities [to be submitted in Price Bid Envelope]

1.1 BOQ for RCC Counterfort Retaining wall of total height 12.5m at landfill site Phase II under Tranche - II at Marten

SI No	Description of work	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
1	Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50 m and lift of 1.50 m complete as per specifications and as directed. (Ordinary Soil)	cum	8236.08				
2	Earthwork in filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	4743.94				
3	Providing and laying of cement concrete in proportion 1:3:6 corresponding to M15 (1 Cement : 3 sand : 6 stone aggregate of 40 mm and down graded) including necessary curing complete, excluding shuttering.	cum	228.78				
4	Providing shuttering including centring for flat surface such as slabs, shelves, chajja and for vertical faces such as columns, walls, ends of beams etc with dressed plank not less than 25 cm thick firmly fixed etc complete as directed (applicable upto 3.30 m height).	Sqm	13177.35				

1.1 BOQ for RCC Counterfort Retaining wall of total height 12.5m at landfill site Phase II under Tranche - II at Marten							
SI No	Description of work	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
5	Providing and laying of cement concrete in proportion 1:1:2 corresponding to M25 (1 cement, 1 sand and 2 stone aggregate of 12 mm and downgraded) including necessary hydraulic testing, curing etc as per specification and complete as directed (excluding shuttering and reinforcement), cement procured by contractor (Both in Raft and RCC wall)	Cum	3452.08				
6	Providing for steel reinforcement in RCC work including cutting, bending, cranking and tying in position with binding wire, 20 gauge, as shown in drawings, complete upto floor two level.	Qntl	4409.67				
7	Providing and laying for inserting the backup material like thermocol inside (Expansion joint) the gap keeping the depth 20mm for filling with Polysulphide sealant. Apply two coats of Tec seal Primer RDL-942 on both the surface of the gap . Apply Polysulphide sealant Tec seal RDL-940 over the vertical and horizontal gap of size 40mm X 20mm as per the direction of Engineer-in-charge.	Sqm	468.30				
	Total cost of RCC Retaining Wall						

1.2 BOQ for Stone Masonry wall of total height 7.50m at landfill site Phase II under Tranche - II at Marten

SI No	Description of work	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
1	Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50 m and lift of 1.50 m complete as per specifications and as directed.	Cum	1134.94				
2	Earthwork in filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	527.75				
3	Providing and laying cement concrete in proportion 1:2:4 corresponding to M15 (1 cement, 2 sand, 4 stone aggregates of 20mm and down graded) including necessary curing complete, excluding shuttering, in foundation and below plinth and in septic tank inspection pits etc complete	Cum	55.97				
4	Providing coursed random rubble masonry in foundation and plinth with unsized stone (matchup) bonded with cement mortar of proportion 1:6 (1 cement, 6 sand including curing) complete (Average size is not less than 20 cmx 20cmx 25cm)	Cum	462.41				
5	Providing coursed random rubble masonry in superstructure above plinth with unsized stone (matchup) bonded with cement mortar of proportion 1:6 (1 cement, 6 sand including curing) complete (Average size is not less than 20 cmx 20cmx 25cm)	Cum	404.36				

1.2 BOQ for Stone Masonry wall of total height 7.50m at landfill site Phase II under Tranche - II at Marten							
SI No	Description of work	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
6	Providing shuttering including centring for flat surface such as slabs, shelves, chajja and for vertical faces such as columns, walls, ends of beams etc with dressed plank not less than 25 cm thick firmly fixed etc complete as directed (applicable upto 3.30 m height).	Sqm	425.56				
7	Providing and laying cement concrete in proportion 1:2:4 corresponding to M15 (1 cement, 2 sand, 4 stone aggregates of 20mm and down graded) including necessary curing complete, excluding shuttering, in foundation and below plinth and in septic tank inspection pits etc complete	Cum	13.39				
8	Providing and laying cement concrete in proportion 1:2:4 corresponding to M15 (1 cement, 2 sand, 4 stone aggregates of 20 mm and down graded) in superstructure including curing complete, (excluding shuttering)	Cum	127.53				
9	Providing tor steel reinforcement in RCC work including cutting, bending, cranking and tying in position with binding wire, 20 gauge, as shown in drawings, complete upto floor two level.	Qntl	100.39				
10	Providing boulder or stone filling with boulders or stones 15cm size, 60 cm wide behind the retail wall etc complete as directed	Cum	104.58				
	Total cost of Stone Masonry Retaining Wall						

2.0 BOQ for Sanitary landfill site, Phase II under Tranche - II at Marten							
SI No	Description of work	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
1	Clearing and grubbing road land including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth up to 30 mm, removal of stumps of such trees cut earlier and disposal of unserviceable material to be used or auctioned up to a lead of 1000 m including removal and disposal of top organic soil not exceeding 150 mm thickness as per technical specification clause 201						
	B- Mechanical means	Ha	1.30				
2	Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50 m and lift of 1.50 m complete as per specifications and as directed.	Cum	49273.11				
3	Disposal of surplus earth from the work site including loading and unloading complete as directed						
	(a) Lead upto 5 kms	Cum	49273.11				
4	Preparation and consolidation of sub grade with power Road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with load upto 50 metres(The work is to be executed as per drawing and direction of Engr. in-charge)	Sqm	5064.00				

2.0 BOQ for Sanitary landfill site, Phase II under Tranche - II at Marten							
SI No	Description of work	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
5	Formation of impervious clay soil liner of 900mm thickness in all lead and lifts of landfill at soil waste management site at Marten, Shillong with a coefficient of permeability value (K) not greater than 1×10^{-7} cm/sec formed by combining of suitable soil and mixing with 10% of bentonite so as to get the required permeability to form the impervious soil liner from bottom area of landfill to the specified alignment, profile, grade compaction and specification with it at the specified location. as indicated in the drawing as per the direction of the engineer in successive layer of 200mm loose thickness compacted using power road roller (PRR) of 8 tonnes to 10 tonnes capacity, each layer properly watered (including cost of water) to obtain the required maximum dry density, corresponding the proctor density of 96% ,after freeing the loose material from sticks, roots and other organic material, breaking of clods, removal of large stones and boulders, removal of sharp stones etc. as directed by the engineer including initial laboratory tests for relevant parameters, field test for proctor density at the rate of eight samples per hectare per layer from location as directed by the engineer and laboratory test for falling head Permeability (FHP) at optimum moisture contents and maximum dry density for the third layer. i.e. at one half of the total thickness of the impervious soil liner i.e., 450 mm and for the ultimate layer i.e., 900mm at the rate of four samples per hectare for each of the above two layers from location as directed by engineer in addition to field test for proctor density., inclusive of setting up of a field testing facility at site, re-rolling with adequate watering or any suitable action as directed by the Engineer, wherever necessary, compaction with mechanical earth rammers, including cost of all equipment, labour, tools and plant, fuel, consumables, water, conveyance and carriage, royalties and taxes, tests, etc., complete as per design, drawings, specifications and directions of the Engineer inclusive of proper protection of all personnel visiting and working at the said site from any hazardous contact with the existing dumped municipal waste.	Cum	4557.60				

2.0 BOQ for Sanitary landfill site, Phase II under Tranche - II at Marten							
SI No	Description of work	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
6	Providing and fixing 1.5mm HDPE geo membrane at landfill site including inside welding of HDPE membrane, laying , anchoring in trench, seaming, testing as per manufacturers directions as per standard design and drawings	Sqm	18688.71				
7	Providing and laying of GEO synthetic clay liner on hill site sloping & vertical surface of retaining wall for landfill wall. comprising of uniform layer of bentonite encapsulated between non woven and scrim non woven GEO textile with 7 mm thick comprising to required permeability as specified in MSW Rules 2000	Sqm	13624.71				
8	Providing and fixing HDPE pipes (Class SN-8) for Leachate, collection and connected to Leachate holding tank as per standard design and drawings with all necessary accessories etc. all complete						
	Laterals - 160 mm OD.	Rmt	330.00				
	Main - 315 mm OD.	Rmt	300.00				
9	Providing and fixing non-woven needle punched polypropylene geotextile (195GSM) including wrapping around 150 dia. HDPE pipes for the Leachate collection network and Total area of landfill confirming to technical specifications etc. all complete as approved design						
	Laterals - 160 mm OD.	Sqm	165.88				
	Total area of Landfill	Sqm	18688.71				
10	Supplying and filling in open areas / sloping areas with locally available silty sand including dressing complete as per drawings and directions by the engineer in charge.	Cum	1519.20				
	Extra for labour for filling of hill sand	Cum	1519.20				
11	Supplying and filling in open areas / sloping areas with locally available coarse sand including dressing complete as per drawings and directions by the engineer in charge.	Cum	1519.20				
	Extra for labour for filling of hill sand	Cum	1519.20				
	Total Cost of Sanitary Landfill Site						

3.1 BOQ for Leachate holding treatment tank under Tr-II (Phase-II) at Marten.

Providing the 2 Nos of Leachate Holding Tank for Tranch-2, Ph-2.

SI. No	Description of work	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
1	Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50 m and lift of 1.50 m complete as per specifications and as directed.						
	(a) ordinary soil	Cum	271.24				
2	Earthwork in filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	12.96				
3	Providing and laying cement concrete in proportion 1:2:4 corresponding to M15 (1 cement, 2 sand, 4 stone aggregates of 20mm and down graded) including necessary curing complete, excluding shuttering, in foundation and below plinth and in septic tank inspection pits etc complete	Cum	26.28				
4	Providing and laying cement concrete in proportion 1:1.5:3 corresponding to M20 (1 cement, 1.5 sand, 3 stone aggregates of 20mm and down graded) including curing etc complete, (excluding shuttering and reinforcement) (a) cement procured by contractor.	Cum	54.90				
5	Providing shuttering including centring for flat surface such as slabs, shelves, chajja and for vertical faces such as columns, walls, ends of beams etc with dressed plank not less than 25 cm thick firmly fixed etc complete as directed (applicable upto 3.30 m height).	Sqm	36.40				

3.1 BOQ for Leachate holding treatment tank under Tr-II (Phase-II) at Marten.							
Providing the 2 Nos of Leachate Holding Tank for Tranch-2, Ph-2.							
Sl. No	Description of work	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
6	(a) Providing for steel reinforcement in RCC work including cutting, bending, cranking and tying in position with binding wire, 20 gauge, as shown in drawings, complete upto floor two level.	Qtl	35.16				
7	Providing first class brick with required thickness in cement mortar 1:6 (1-Cement and 6-sand) including curing complete as directed	Cum	85.46				
8	Providing 12 mm thick cement plaster including cleaning the surface and curing complete as directed						
	(C) Proportion 1:4	Sqm	475.36				
9	Providing cement concrete floor 65 mm thick in proportion 1:3:6 (1cement 3 sand 6 stone aggregate) to the proper level and slopes including ramming and curing complete as directed.	Sqm	115.70				
10(a)	Rough filtration bed						
	Providing stone aggregates 20mm to 40mm for Filter chamber No.I	Cum	83.20				
(b)	Extra for labour for filling of aggregates.	Cum	83.20				
11(a)	Fine aggregate filtration bed						
	10mm size (River course sand)						
	Filter chamber No.II	Cum	7.04				
	Filter chamber No.III	Cum	5.44				
	Sub Total		12.48				
(b)	Extra for labour for filling of fine aggregates.	cum	12.48				

3.1 BOQ for Leachate holding treatment tank under Tr-II (Phase-II) at Marten.							
Providing the 2 Nos of Leachate Holding Tank for Tranch-2, Ph-2.							
Sl. No	Description of work	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
12	Supplying and fixing 100 mm dia soil pipes etc (1.80m each) including cement mortar chaulk joints laid to the proper level, excavating the foundation and filling, dressing complete as directed						
	(b) PVC	Rmt	50.00				
13	Providing and fixing HDPE pipes (Class SN-8) of approved make conforming to IS 14333-1996 for Leachate, collection and connected to Leachate holding tank as per standard design and drawings with all necessary accessories etc. all complete						
	315 mm dia OD outlet pipe	Rmt	50.00				
14	Supply, fitting, fixing in position CI D/F sluice valve with top cap and hand wheel upto 10kg per sq cm. pressure including supplying of nuts, bolts, rubber insertion sheet washer etc. and carriage within a distance of 8 km and all other jointing materials etc. complete as directed						
	6.01) 80 mm valve + 80 dia 500 mm long pipe	Each	2				
	6.06) 250 mm	Each	6				
15	Construction of concrete valve chamber of internal size 1200 x 1200 x 2500 deep with RCC cover including foot rest (For 3 Nos)						
15.1	Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50 m and lift of 1.50 m complete as per specifications and as directed.	Cum	48.60				

3.1 BOQ for Leachate holding treatment tank under Tr-II (Phase-II) at Marten.							
Providing the 2 Nos of Leachate Holding Tank for Tranch-2, Ph-2.							
Sl. No	Description of work	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
15.2	Earthwork in filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	10.38				
15.3	Providing and laying of cement concrete in proportion 1:3:6 corresponding to M15 (1 Cement : 3 sand : 6 stone aggregate of 40 mm and down graded) including necessary curing complete, excluding shuttering.	Cum	1.92				
15.4	Providing and laying cement concrete in proportion 1:1.5:3 corresponding to M20 (1 cement, 1.5 sand, 3 stone aggregates of 20mm and down graded) including curing etc complete, (excluding shuttering and reinforcement) (a) cement procured by contractor.	Cum	22.56				
15.5	Providing shuttering including centring for flat surface such as slabs, shelves, chajja and for vertical faces such as columns, walls, ends of beams etc with dressed plank not less than 25 cm thick firmly fixed etc complete as directed (applicable upto 3.30 m height).	Sqm	190.08				
15.6	(a) Providing tor steel reinforcement in RCC work including cutting, bending, cranking and tying in position with binding wire, 20 gauge, as shown in drawings, complete upto floor two level.	Qntl	17.64				

3.1 BOQ for Leachate holding treatment tank under Tr-II (Phase-II) at Marten.							
Providing the 2 Nos of Leachate Holding Tank for Tranch-2, Ph-2.							
Sl. No	Description of work	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
15.7	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, complete as per design.	No.	42				
15.8	Providing and fixing in position pre-cast RCC man-hole cover and frame of required shape and approved quality						
	HD-20 Circular shape 560mm internal diameter	No.	6				
	Total Cost of Leachate Holding Tank						

4.0 BOQ for Boundary Wall with Barbed wire fencing, Main Gate & Cattle Trap, For Phase - II Under Tranche - II							
Sl. No.	Description of work	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
A	Boundary Wall with barbed wire fencing						
1	Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50 m and lift of 1.50 m complete as per specifications and as directed.	Cum	315.00				
2	Providing and laying cement concrete in proportion 1:3:6 corresponding to M10 including curing but excluding shuttering	Cum	45.00				
3	Providing coursed random rubble masonry in foundation and plinth with unsized stone (matchup) bonded with cement mortar of proportion 1:6 (1 cement, 6 sand including curing) complete (Average size is not less than 20 cm x 20cm x 25cm)	Cum	332.00				
4	Providing and laying cement concrete in proportion 1:2:4 corresponding to M15 including curing but excluding shuttering	Cum	120.10				
5	Providing shuttering including centring for flat surface such as slabs, shelves, chajja and for vertical faces such as columns, walls, ends of beams etc with dressed plank not less than 25 cm thick firmly fixed etc complete as directed (applicable upto 3.30 m height).	Sqm	1408.40				
6	Providing for steel reinforcement in RCC work including cutting, bending, cranking and tying in position with binding wire etc complete	Qntl	92.40				
7	Providing first class brick with required thickness in cement mortar 1:6 (1-Cement and 6-sand) including curing complete as directed						

4.0 BOQ for Boundary Wall with Barbed wire fencing, Main Gate & Cattle Trap, For Phase - II Under Tranche - II							
Sl. No.	Description of work	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
	Thickness 12.50 cm (In between columns)	Sqm	1564.00				
8	Providing 12 mm thick cement plaster including cleaning the surface and curing complete as directed. (Proportion 1:4)	Sqm	5029.00				
9	Providing steel works in tees, flat, angles and channels including cutting, drilling holes, hoisting, and fixing in position complete.	Qntl	16.50				
10	Providing and supplying barbed wire fencing fixed to angle posts including painting, etc complete as directed	Rmt	1000.00				
B	Main Entrance Gates including Cattle trap, Phase II under Tranche - II						
1	Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50 m and lift of 1.50 m complete as directed. Gate pillars/Drain	Cum	11.50				
2	Earthwork in filling with available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm thick including breaking clods consolidating each layer by ramming and watering, lead upto 50 m and lift upto	Cum	9.50				
3	Providing and laying cement concrete in proportion 1:3:6 corresponding to M10 (1-cement, 3-sand, 6-stone aggregates of 40mm and down graded) including necessary curing complete excluding shuttering.						
	As PCC in base of Pillar	Cum	1.00				

4.0 BOQ for Boundary Wall with Barbed wire fencing, Main Gate & Cattle Trap, For Phase - II Under Tranche - II							
Sl. No.	Description of work	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
4	Providing and laying cement concrete in proportion 1:2:4 corresponding to M15 (1-cement, 2-sand, 4-stone aggregates of 20 mm and down graded) in super structure including curing complete (excluding shuttering).	Cum	3.50				
(a)							
(b)	Extra labour for providing and laying cement concrete for RCC works	Cum	3.50				
5	Providing shuttering including centring for flat surface such as slabs, shelves, chajja and for vertical faces such as columns, walls, ends of beams etc with dressed plank not less than 25 cm thick firmly fixed etc complete as directed (applicable upto 3.3 m height)	Sqm	19.00				
6	(a) Providing for steel reinforcement in RCC work including cutting, bending, cranking and tying in position with binding wire, 20 gauge, as shown in drawings, complete upto floor two level.	Qntl	2.50				
7	Providing 12 mm thick cement plaster including cleaning the surface and curing complete as directed.						
	(a) Proportion 1:2	Sqm	11.00				
	Cattle Trap						
8	GI Pipes 50 mm dia.	Rmt	24.00				
	GI Pipes 80 mm dia.	Rmt	2.50				
9	White washing with lime on new works to give an even shade as directed complete.						
	(b) Two coats	Sqm	11.00				

4.0 BOQ for Boundary Wall with Barbed wire fencing, Main Gate & Cattle Trap, For Phase - II Under Tranche - II							
Sl. No.	Description of work	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
10	Providing MS ornamental grills of approved design, joints continuously welded, with MS flat iron and bars for windows and railing etc. fitted and fixed with necessary screws or lugs complete with a primer coat of red lead paint. (in ground floor)						
	(e) Grill weighing above 18 kg/m ² to 20 kg/m ² .	Sqm	8.00				
	(i) For hanging and locking arrangements including supply of materials and labour complete, @ 15% extra over the corresponding item of grill.	Sqm	8.00				
	(ii) For supplying, fitting and fixing bottom rollers including all labour complete @ 5% extra over the corresponding item of grill.	Sqm	8.00				
11	Painting with plastic emulsion paint of approved make and brand to give an even shade including cleaning the surface etc, complete as directed.						
	(a) With commercial variety						
	(i) Two coats (new work) in MS gates	Sqm	16.00				
Total Cost of Boundary Wall with Barbed wire fencing, Main Gate & Cattle Trap							

5.1 BOQ for Construction of open concrete drain 250X250 under Tranche-II (Phase-II) at Marten							
SI No	Description of Items	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
1	Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50 m and lift of 1.50 m complete as per specifications and as directed.	Cum	113.85				
2	Providing and laying of cement concrete in proportion 1:3:6 corresponding to M15 (1 Cement : 3 sand : 6 stone aggregate of 40 mm and down graded) including necessary curing complete, excluding shuttering.	Cum	25.30				
3	Providing shuttering including centring for flat surface such as slabs, shelves, chajja and for vertical faces such as columns, walls, ends of beams etc with dressed plank not less than 25 cm thick firmly fixed etc complete as directed (applicable upto 3.30 m height).	Sqm	552.00				
4	Providing and laying cement concrete in proportion 1:2:4 corresponding to M15 (1 cement, 2 sand, 4 stone aggregates of 20mm and down graded) including necessary curing complete, excluding shuttering, in foundation and below plinth and in septic tank inspection pits etc complete	Cum	43.70				
5	Providing 12 mm thick cement plaster including cleaning the surface and curing complete as directed. (Proportion 1:3)	Sqm	759.00				
6	(a) Providing for steel reinforcement in RCC work including cutting, bending, cranking and tying in position with binding wire, 20 gauge, as shown in drawings, complete upto floor two level.	Qtl	44.06				
7	Supply, delivery and fixing of 250mm OD uPVC pipes to drain the storm water collected in the drains.	Rmt	50.00				
	Total Cost						

5.2. BOQ for construction of open concrete drains 900X900 under phase-II under Tranche II							
SI No	Description of Items	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
1	Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50m and lift of 1.50m complete	Cum	1020.00				
2	Providing and laying cement concrete in proportion 1:3:6 M-10(1 cement:3 sand:6 stone aggregate of 40 mm and down graded) including necessary curing complete excluding shuttering	Cum	127.50				
3	Providing shuttering including centring for flat surface such as slabs, chajja and for vertical faces such as columns, walls, ends of beams etc with dressed plank not less than 25cm thick firmly fixed etc complete as directed .	Sqm	1950.00				
4	Providing and laying cement concrete in proportion 1:2:4 corresponding to M15 (1 cement , 2 sand, 4 stone aggregates of 20 mm and down graded) including necessary curing complete, excluding shuttering , in foundation and below plinth and in septic tank inspection pits etc, complete	Cum	112.50				
5	Providing and laying cement concrete in proportion 1:2:4 corresponding to M15 (1 cement , 2 sand, 4 stone aggregates of 20 mm and down graded) including necessary curing complete, excluding shuttering , in foundation and below plinth and in septic tank inspection pits etc, complete	Cum	270.00				
6	Providing tor steel reinforcement in RCC work including cutting, bending, cranking and tying in position with binding wire, 20 gauge, as shown in drawings, complete upto floor two level.	Qntl	191.34				
7	Providing 12 mm thick cement plaster including cleaning the surface and curing complete as directed. (Proportion 1:2)	Sqm	2700.00				
	Total Cost						

6.0 BOQ for Weigh Bridge Installation, Phase-II under Tranche-II.							
SI No	Description of Item	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
	Earthwork						
1	Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50 m and lift of 1.50 m complete as per specifications and as directed.	Cum	45.00				
2	Earthwork in filling with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm thick including breaking clods consolidating each layer by ramming and watering, lead up to 50 m and lift up to 1.5 m for foundation, floor, road depression as per specification and complete as directed	Cum	40.00				
	Concrete Works						
3	Providing and laying cement concrete in proportion 1:3:6 M-10(1 cement:3 sand:6 stone aggregate of 40 mm and down graded) including necessary curing complete excluding shuttering	Cum	15.00				
4	Providing and laying of cement concrete in proportion 1:1:2 corresponding to M25 (1 cement, 1 sand and 2 stone aggregate of 12 mm and downgraded) including necessary hydraulic testing, curing etc as per specification and complete as directed (excluding shuttering and reinforcement), cement procured by contractor (Both in Raft and RCC wall)	Cum	13.00				
5	Providing soling stones in bed of side drain, footpath, slab drain etc. with small boulders of sizes ranging from 100mm to 150mm including filling the interstices with smaller stones and carriage. Within 200m complete as per technical's specifications.						
	300mm Thick	Cum	8.00				

6.0 BOQ for Weigh Bridge Installation, Phase-II under Tranche-II.							
SI No	Description of Item	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
6	Providing shuttering including centring for flat surface such as slabs, shelves, chajja and for vertical faces such as columns, walls, ends of beams etc with dressed plank not less than 25cm thick firmly fixed etc as per specification and complete as directed (applicable upto 3.30 m height)	Sq m	36.00				
7	Providing steel works in tees, flats, angles and channels including cutting, drilling holes, hoisting and fixing in position complete	Qntl	2.00				
8	Providing tor steel reinforcement in RCC work including straighten, cutting, bending, cranking and tying in position with binding wire, 20 gauge, as shown in drawings, as per specification and complete as directed up to floor two level.	Qntl	12.00				
	Brick Works						
9	Providing first class brick in required thickness in cement mortar 1:6 (1-sand and 6-sand) including curing complete as directed	Cum	15.00				
10	Providing 12 mm thick cement plaster including cleaning the surface and curing complete as directed.						
	(c). Proportion 1:4	Sqm	16.00				
11	Supplying and installation of Electronics Steel Weigh Bridge of 50 Ton Capacity, 5 Kg Accuracy, to feeting to 9m X 3m Platform Size with load cell 6 nos, Digital indicator, Junction box, ESPD (Essae surge protection device), Software and Hardware work, Earthing and Electrical feeting etc Complete Including Loading and unloading , Arranging Calibration, Welding, Transformer, Computer, Printer, UPS, Foundation Plates etc Complete with 12 month Guarantee.	Each	1				
	Total Cost of Weigh Bridge Installation						

7.0 BOQ for Guard cum Weight Bridge operator building, phase-II under Tranche-II.							
SI No	Description of Item	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
Earthwork							
1	Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50 m and lift of 1.50 m complete as per specifications and as directed.	Cum	31.88				
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	27.00				
3	sand filling in plinth in layers not exceeding 15cm including breaking of clods under floors including, watering, ramming consolidating and dressing complete.	Cum	4.00				
Concrete works							
4	Providing and laying cement concrete in proportion 1:3:6(1 cement:3 sand:6 stone aggregate of 40 mm and down graded) including necessary curing complete excluding shuttering	Cum	8.00				
5	Providing and laying cement concrete in proportion 1:1½:3 corresponding to M 20 (1cement, 1½sand and 3stone aggregates of 20mm and down graded) including curing etc complete (excluding shuttering and reinforcement)	Cum	29.00				

7.0 BOQ for Guard cum Weight Bridge operator building, phase-II under Tranche-II.							
SI No	Description of Item	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
6	Providing fin wall and chajja 60 cm thick or as designed with cement concrete in proportion 1:2:4 corresponding to M15 (1-cement, 2-sand and 4-stone aggregates of 12 mm and down graded) including 6 mm thick cement plaster of proportion 1:2 (1-cement and 2-sand) and curing as directed complete (excluding shuttering and reinforcement).	Cum	4.00				
7	(a) Providing tor steel reinforcement in RCC work including cutting, bending, cranking and tying in position with binding wire, 20 gauge, as shown in drawings, complete upto floor two level.	Qntl	17.00				
8	Providing steel works in tees, flats, angles and channels including cutting, drilling holes, hoisting and fixing in position complete.						
	For spiral stair case upto roof including painting with synthetic enamel paint over one coat of steel primer complete as directed	Qntl	13.00				
9	Providing shuttering including centring for flat surface such as slabs, shelves, chajja and for vertical faces such as columns, walls, ends of beams etc with dressed plank not less than 25 cm thick firmly fixed etc complete as directed (applicable upto 3.30 m height).	Sqm	216.00				
10	Proving coursed random rubble masonry in foundation and plinth with unsized stone (matchup) bonded with cement mortar of proportion 1:6 (1 cement, 6 sand including curing) complete (Average size is not less than 20 cmx 20cmx 25cm)	Cum	7.00				
11	Providing first class brick in required thickness in cement mortar 1:6 (1-cement and 6-sand) including curing complete as directed.						
	(b). For walling (super structure)						
	(i). Thickness 12.5cm	Sqm	50.00				
	(ii). Thickness 25cm	Sqm	106.00				

7.0 BOQ for Guard cum Weight Bridge operator building, phase-II under Tranche-II.							
SI No	Description of Item	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
12	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).	Sqm	7.00				
13	Providing 12 mm thick cement plaster including cleaning the surface and curing complete as directed.						
	(a) Proportion 1:2	Sqm	123.00				
	(c). Proportion 1:4	Sqm	309.53				
	Flooring						
14	Providing cement concrete floor 65 mm thick in proportion 1:3:6 (1-cement, 3-sand and 6-stone aggregates) to the proper level and slope including ramming and curing complete as directed.	Sqm	43.00				
15	Providing glazed ceramic floor tiles. (Somany/Johnson) of approved shade 7.3mm thick in flooring, treads of steps, landings, laid on a bed of 12 mm thick cement mortar 1:3 (1-cement: 3- coarse sand) finished with flush pointing as directed.	Sqm	65.75				
16	Extra for providing glazed ceramic floor tiles in skirting, riser of steps and dado.	Sqm	16.74				
17	Providing and fixing on wall face Unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes						
	110 mm diameter	Rmt	12.00				

7.0 BOQ for Guard cum Weight Bridge operator building, phase-II under Tranche-II.							
SI No	Description of Item	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
18	Providing and fixing on wall face Unplasticised - PVC moulded fittings/ accessories for Unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion						
	Coupler						
	110 mm	Each	4				
	Bend 87.5°						
	110 mm bend	Each	4				
19	Providing dressed and rebated wood works in frames of doors and other similar works, framed and fitted in position with nails, spikes, nuts, bolts etc as required and directed complete.						
	(a) White pinewood	Cum	1.00				
20	Providing and fixing 38 mm thick full panelled shutter for doors including iron hinges, tower bolts, screws etc as specified complete with:-	Sqm	12.60				
21	Providing steel casement windows, ventilators, and clerestory windows as per IS specification (in ground floor), including fitting and fixing in position with lugs (100mmx16mmx3.15 mm) embedded in cement concrete blocks 15 cmx 10cmx10cm of mix 1:3:6 (1-cement: 3-coarse sand: 6-stone aggregates) including providing and fixing handles, bolting device locking arrangement etc as required complete including applying a primary coat of red lead point. (Glazing shall be paid for separately)						
	(a) Openable but without horizontal glazing bars - Windows	Sqm	15.50				
	(b) Extra for each additional floor above ground floor.	Sqm	15.50				

7.0 BOQ for Guard cum Weight Bridge operator building, phase-II under Tranche-II.							
SI No	Description of Item	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
	Glazing						
22	providing and fixing glass panels ordinary quality embedded in putty and fixed with necessary nails etc complete (For wooden doors and steel windows)	Sqm	11.52				
	Finishing						
23	Distempering with acrylic washable distemper of approved shade to give an even shade including cleaning etc of the surface on new works (including cost of priming coat)	Sqm	167.50				
24	White washing with lime on new works to give an even shade directed complete.	Sqm	346.83				
25	Painting walls at the ground floor level, with approved water proof cement paint (Snowcem & the like) to new works including cleaning the surface etc complete.	Sqm	234.78				
	(d) extra for additional floor above ground floor level 10%	Sqm	135.00				
	(e) Applying 1 (one) coat of approved cement primer including cleaning the surface etc complete	Sqm	135.00				
26	Painting with best quality synthetic enamel with approved make and brand including smoothening surface by sand papering etc, and using approved putty on the surface, if necessary complete as directed.	Sqm	60.00				
	Services & Water supply						
27	Supplying, fitting and fixing PVC Syntex tank including fitting and fixing the inlets and outlets pipes as per specification and complete as directed.	Litr	500				

7.0 BOQ for Guard cum Weight Bridge operator building, phase-II under Tranche-II.							
SI No	Description of Item	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
28	10 cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar mixed with bhusa @ 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cow dung) and covered with flat tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat :						
	(i)With common burnt clay F.P.S.(non modular) brick tile of class designation 10	Sqm	44.00				
29	Extra for every additional 1 cm thickness of mud phaska	Sqm	1.00				
30	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as perstandard design :12.21.1 In 75x75 mm deep chase	Rmt	28.00				
31	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	Each	2				
32	Proving and fixing bathroom mirror complete as directed						
	(b) Ordinary quality with PVC Frame	Each	2				
33	Providing and Fixing towel rail complete as directed						
	(a) CP	Each	2				

7.0 BOQ for Guard cum Weight Bridge operator building, phase-II under Tranche-II.							
SI No	Description of Item	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
34	Providing & Fixing vent pipes (50mm) with cement mortar chaulk joints from the horn bends towards the roof including necessary arrangements against leakage in the roof, clamps and brakets complete						
	(b) PVC	Rmt	10.00				
35	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work :						
	15 mm dia. nominal bore	Rmt	30.00				
36	Providing and fixing 25mm dia pipes including necessary sockets, bends, jamnuts, elbows, tees etc complete as directed						
	(a) GI Pipe	Rmt	25.00				
37	Supplying, fitting and fixing CP bathroom fittings 12mm dia of approved brand (AGMECO Premium Spectra and the like) complete as directed.						
	(a) Pillar cock	Each	4				
	(c) Bibcock, short body	Each	4				
38	Providing and fixing in position Indian pattern Water Closet including traps, foot rest etc complete with all necessary fittings including cutting and making good the walls and floors wherever required and as directed by the Engineer-in-charged.						
	(a) 450 mm	Each	2				
	(d) Labour for fitting and fixing.	Each	2				
39	Providing and fixing in position low down cistern etc(porcelain) complete with all necessary fittings including cutting and making good the walls and floors where ever required and as directed by the Engineer-in-charged.						
	(b) Plastic white	Each	2				

7.0 BOQ for Guard cum Weight Bridge operator building, phase-II under Tranche-II.							
SI No	Description of Item	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
40	Providing and fixing in position wash hand basin etc complete with all necessary fittings including cutting and making good the walls and floors wherever required and as directed by the Engineer-in-charged.						
	(a) 300 mm x 400 mm						
	(i) White	Each	2				
41	Providing and fixing kitchen sink including brackets etc complete with all necessary fittings including cutting and making good the walls and floors wherever required and as directed by Engineer-in-charged.						
	(b) Stainless steel						
	(i) 510mmx432mmx172mm	Each	2				
42	Providing 300mm X 300mm X 300mm inspection pit (internal dimensions) with 100mm thick cement concrete based in praportion 1:3:6 (1cement, 3sand, 6stone aggregate) 100 mm thick cement concrete side walls in praportion 1:3:6, 75 mm thick RCC cover slab inpraportion 1:2:4, including moulding, channelling and plastering with 12 mmthick cement plaster in praportion 1:3 (1-cement, 3-sand) properly finished complete as directed.						
	With F.P.S. bricks	Each	2				
43	Demolition of existing single storey building of 35 sqm area with brick wall and GI sheet roofing. Works include demolition, segregation and handing over the reusable materials to the client's store and disposal of the debris.	LS	1				
44	Cost for electrical works	LS					
45	Cost for Septic Tank	LS					
	Total Cost of Guard cum Weight Bridge operator building						

8.0 BOQ for Road Lighting at Landfill Site under Tranche-II (Phase-II)							
SI No	Description of work	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
1	Supply, delivery, fixing and commissioning of street light HP SV with all necessary accessories, fitting etc	Set	30				
2	Supplying, laying, testing and commissioning of underground cable laid including cost of digging of trenches etc.	Rmt	750.00				
	Cost of cable for Pole height	Rmt	240.00				
3	Supplying and fixing load junction kit and MCB	Set	30				
4	Supplying, filling and fixing of TP & N distributor board for MCB	Set	30				
5	Supplying, filling and fixing load junction kit MCB, brackets, Double pole etc.	Set	30				
	Total cost of Road lighting						

9.0 BOQ for Construction of 1.00X1.00m concrete Culverts with RCC cover slab under Tranche-II, Phase-II							
SI No	Description of Items	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
I	For construction of three culverts at the following locations						
	(A) Abutment Walls						
1	Earth excavation for foundation of culvert to the desired foundation level						
	Ordinary soil comprising of vegetables or organic soil, turf, sand, loam, clay etc	Cum	102.30				
2	Providing cement concrete work for PCC in proportion 1:3:6 (M100) with hard broken stone aggregate 40mm including curing	Cum	6.60				
3	Providing cement concrete work in proportion 1:2:4 (M15) with hard broken stone aggregate 20mm including curing over the above PCC for floor.	Cum	12.00				
4	Providing cement concrete in abutment walls in proportion 1:2:4 with 20mm hard broken stone aggregate including curing over the above PCC for floor for abutment walls.	Cum	30.00				
5	Providing RCC 1:2:4(M15) using 20mm hard broken stone aggregate including curing for the cover slab excluding shuttering and steel.	Cum	15.00				

9.0 BOQ for Construction of 1.00X1.00m concrete Culverts with RCC cover slab under Tranche-II, Phase-II							
SI No	Description of Items	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
6	Providing shuttering including centring for flat surface such as slabs, shelves, chajja and for vertical faces such as columns, walls, ends of beams etc with dressed plank not less than 25 cm thick firmly fixed etc complete as directed (applicable upto 3.30 m height).	Sqm	180.00				
7	Providing tor steel reinforcement in RCC works including cutting bending etc.	Qntl	38.10				
8	Laying PCC 1:1.5:3 for toping concrete using 20mm and down graded aggregate over cover slab to act as wearing coat excluding shuttering	Sqm	60.00				
9	Plastering with cement mortar 1:2, 12mm thick at bottom and side inside the culvert	Sqm	90.00				
B= Wing walls							
10	Earth excavation for foundation of culvert to the desired foundation level						
	Ordinary soil comprising of vegetables or organic soil, turf, sand, loam, clay etc	Cum	14.25				
11	Providing cement concrete work for PCC in proportion 1:3:6 (M10) with hard broken stone aggregate 40mm including curing	Cum	1.20				
12	Providing cement concrete work in proportion 1:2:4 (M15) with hard broken stone aggregate 20mm including curing over the above PCC for wing walls	Cum	8.32				

9.0 BOQ for Construction of 1.00X1.00m concrete Culverts with RCC cover slab under Tranche-II, Phase-II							
SI No	Description of Items	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
13	Providing shuttering including centring for flat surface such as slabs, shelves, chajja and for vertical faces such as columns, walls, ends of beams etc with dressed plank not less than 25 cm thick firmly fixed etc complete as directed (applicable upto 3.30 m height).	Sqm	61.56				
14	Providing 12 mm thick cement plaster including cleaning the surface and curing complete as directed. (Proportion 1:2)	Sqm	18.90				
	C= Connecting drains						
15	Construction of 90X90 cm open concrete drain.						
15.1	Earthwork in excavation in foundation trenches, including dressing of sides and ramming of the bottom including stacking of serviceable stones, disposal and removal of excavated earth within a lead of 50m and lift of 1.50m complete	Cum	61.20				
15.2	Providing and laying cement concrete in proportion 1:3:6 M-10(1 cement:3 sand:6 stone aggregate of 40 mm and down graded) including necessary curing complete excluding shuttering	Cum	7.65				
15.3	Providing shuttering including centring for flat surface such as slabs, chajja and for vertical faces such as columns, walls, ends of beams etc with dressed plank not less than 25cm thick firmly fixed etc complete as directed .	Sqm	117.00				

9.0 BOQ for Construction of 1.00X1.00m concrete Culverts with RCC cover slab under Tranche-II, Phase-II							
SI No	Description of Items	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
15.4	Providing and laying cement concrete in proportion 1:2:4 corresponding to M15 (1 cement , 2 sand, 4 stone aggregates of 20 mm and down graded) including necessary curing complete, excluding shuttering , in foundation and below plinth and in septic tank inspection pits etc, complete	Cum	6.75				
15.5	Providing and laying cement concrete in proportion 1:2:4 corresponding to M15 (1 cement , 2 sand, 4 stone aggregates of 20 mm and down graded) including necessary curing complete, excluding shuttering , in foundation and below plinth and in septic tank inspection pits etc, complete	Cum	16.20				
15.6	Providing tor steel reinforcement in RCC work including cutting, bending, cranking and tying in position with binding wire, 20 gauge, as shown in drawings, complete upto floor two level.	Qntl	11.48				
15.7	Providing 12 mm thick cement plaster including cleaning the surface and curing complete as directed. (Proportion 1:2)	Sqm	162.00				
	Total cost of culvert with connecting drain.						

10.0 BOQ for APPROACH ROAD OF 5.00 M WIDTH UNDER TRANCHE-II Phase II							
SI No	Description of Items	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
1	Earth work excavation to the proper grade including light dressing, providing cambering and super elevation as directed and removal of soil upto 30.00m lead and all lift						
	(a) Ordinary soil: Comprising of vegetables or organic soil, turf, sand, silt, loam, clay, mud, peat, black cotton soil and etc.	Cum	2572.50				
2	Earthwork in filling with available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm thick including breaking clods consolidating each layer by ramming and watering, lead upto 50 m and lift upto 1.50m	Cum	1905.00				
3	Laying, spreading a surface pulverize mixing the spread soil in place with rotavator with 3% slaked lime having a minimum of 70% of CaO grading with motor grader and compacting with the Road roller at OMC to the desired Density to form a layer to improve subgrade						
	(A) By Mechanical Means	Cum	140.63				
4	Collection and supply of hard stone soling 75-150mm size conforming to all tests as per IS2386PT IV including carriage within 200m and stacking in measurable stacks etc. complete as directed.	Cum	140.63				
5	Labour for laying soling stone of size 75mm to 150mm uniformly to proper grade and chamber including filling the interstices with stone chipping applying of blind age and earth edging etc, including rolling with 8-10 tonne roller complete as directed.	Cum	140.63				

10.0 BOQ for APPROACH ROAD OF 5.00 M WIDTH UNDER TRANCHE-II Phase II							
SI No	Description of Items	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
6	Collection and supply of hard metal stone (aggregates) 45-90mm size graded as per IS 2386 part 4 including carriage within 200m and stacking in measurable stacks after proper screening from dirt, dust and other impurities (stack should be uniformly distributed or as directed).	Cum	93.75				
7	Collection and supply of crushed dust as binding material for WBM having liquid limit and plasticity index not exceeding 20 and 6 respectively free from impurities, organic materials and dirt including carriage within 200m and stacking in measurable stacks (stacks should be uniformly distributed or as directed).	Cum	93.75				
8	Providing and laying Bituminous Macadam with 100 to 120Tph of mix plant producing an average output of 75tonnes per hour using crushed aggregates of specified grading premixed with bituminous Binder transported to site, laid over a previously prepared surface with paver finished to the required grade, level and alignment & rolled as per clause 501.6 & 501.7						
	Grading I (40mm nominal size)	Cum	93.75				
9	Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0 .6KG per metre square using Mechanical means						
	(ii)Medium Porosity	Sqm	937.50				

10.0 BOQ for APPROACH ROAD OF 5.00 M WIDTH UNDER TRANCHE-II Phase II							
SI No	Description of Items	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
10	Providing and laying semi dense bituminous concrete with 100-200 TPH batch type HMP producing an average output of 75 tonnes per hour using aggregates of specified grading, premixed with bituminous binder @4.5-5% of mix and filler transporting the hot mix to work site laying with hydrostatic paver finisher with sensor control to the reqd grade level & alignment, rolling smooth wheeled vibratory and tandem roll to desired compaction as per MORTH specification cl.no.508						
	I. Bitumen Grading I (13mmnominal size)	Cum	32.81				
11	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom(i)Medium Porosity						
	(i) Normal bituminous surface	Sqm	937.50				
12	Earth filling with approved earth like sandy soil, moorum etc in layers, one layer not exceeding 20.00 cm thick including breaking clods, dressing and ramming lead upto 30.00m and lift upto 150.00 cm and conforming all test as per IS 2386 PT IV as required complete as directed.						
	sides of road	Cum	65.63				
13	Extra for rolling the surface in layer of 20.00 cm with power roller 8 to 10 tonne capacity to rum at least 10 passes in the surface is compacted including watering, hire charges of roller and supply of necessary fuel etc. (Sequence of operation should be filled in layers including breaking clods etc upto the desired thickness to be followed by rolling operation alternatively as directed).						
	sides of road	Cum	65.63				
	Total cost of Approach Road						

11.0 BOQ for Tubewell with Pumping Mains under Tranch-II Phase-II							
SI No.	Description of Items	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
	TUBE WELL With Pumping Mains						
1	Drilling deep tube well all types of formations (Including hard rock formation) down to required depth using DTh Rig machine with suitable D.T.H. Hammer and bits.						
	150mm dia nominal bore	Rmt	250.00				
2	Development of tube well as per IS specifications using suitable compressor to give sand free water for required yield of the gravel packed tube well	Hr	24.00				
3	supplying, assembling ,lowering and fixing in vertical position in bore wel PVC mediumwell casing well casing (CM) pipe of required dia , conforming to IS 12818,including required hire and labour chrges , fittings & accessories etc,all complete,for all depths,as directed of Engineer in charge.						
	150mm dia nominal bore	Rmt	75.00				
4	Supply and lowering of strainer pipes/6KG per Sqcm made of PVC pipe of following sizes at the site of work 150mm nominal bore	Rmt	20.00				
5	Testing vertically of tube well by plumbing system and yeild test and draw down test by pumping system as per IS:2800 (Part II 1979)	Each	1				
6	S & F tube well cover of MS sheet 6mm thick with nuts and bolts complete for casing size						
	45cm x45cm Size	LS	1				

11.0 BOQ for Tubewell with Pumping Mains under Tranch-II Phase-II							
SI No.	Description of Items	Unit	Quantity	Rate in Figure and words in bracket (Rs)	Total Amount (Rs)	Taxes and other Duties	Country of origin of selected Goods
7	Providing and fixing M.S. clamp of required dia to the top of casing/housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts and nuts of required size complete	Each	1				
8	Construction of 185cm dia platform as per approved design	Each	1				
9	Supplying and Installation of submersible pumping motor pump sets ISI market (IS-8034-1989) of approved make like KSB, Kirloskar, Calama etc orequivalent ,making connection suitable for TW/DCB/Open Well .The jobincludes screwing and welding of flanges on FI riser pipes ,installation of complete fitting and accessories with riser pipes Suitable diametre,with Flat electrical cables of 3core-4sqmm Copper cables enclosed with proper tubing, Starters, Capacitors of relewent size and rating, and other connections making switch board electrical connections, earthing arrangements etc all labor for testing of submersible pumps sets and supply of water to water mains ,complete in all respects.	Each	1				
	30 HP Power						
	250-275 M Head						
	24 cum/hr discharge						
10	Providing Fixing 80 mm nominal bore ,GI B-clash pipes complete with GI fittings like- Bends, Dummy Etc complete including trenching and refilling etc	Rmt	30.00				
11	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)	No	1				
	Total Cost of Tube well with Pumping Mains						

Summary Cost for Tranche-II (Phase-II) at Old Landfill Site					
Sr. No.	Details	Amount in INR (Rs)	Amount in Words (Rs)	Taxes and other Duties	Country of origin of selected Goods
	Tranche-II (Phase-II) at Old Landfill Site				
1	Retaining Walls				
1.1	a) RCC Counterfort Retaining Walls				
1.2	b) Stone Masonry Wall				
2	Sanitary Landfill Site				
3.1	Leachate Holding Tank (2 Nos)				
4	Boundary wall + Main Gate + Cattle Trap				
5.1	Drain 250 x 250				
5.2	Drain 900 x 900				
6	Weigh Bridge Installation				
7	Guard cum Weighbridge Operator Room				
8	Area Lighting				
9	Box Culvert (3 nos.)				
10	Approach Road				
11	Tube Well				
	Grand Total				