



राष्ट्रीय प्रौद्योगिकी संस्थान नागालैंड  
**NATIONAL INSTITUTE OF TECHNOLOGY NAGALAND**  
(An Institute of National Importance under Ministry of Education, Govt of India)  
**Chumukedima, Dimapur**  
**Nagaland - 797103**

E-mail: registrar@nitnagaland.ac.in  
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**Notice Inviting Tender No. 008/NIT-N/EO/2021/12-01**

**Dated: 22-12-2021**

**CONSTRUCTION OF FLOOR EXTENSION & AERATION**  
**PLANT IN NEW BOY'S HOSTEL, NIT NAGALAND**

**Notice Inviting Tender No. : 008/NIT-N/EO/2021/12-01**

**Tender Document Issue Date : 22-12-2021**

**Last Date of Submission & Time : 12-01-2022, 11:00 hrs**

**Technical Bid Opening Date and Time : 13-01-2022, 12:00 hrs**

**Tender Document Fee : Rs. 3,000/-**

**EMD Amount : Equivalent to 2 percent of the quoted value**

**Completion Period : 5 months from the date of Work Order**

**Address for Submission of EMD & Tender Fee: The Registrar,**  
**National Institute of Technology**  
**Nagaland, Chumukedima,**  
**Dimapur- 797103**

**NATIONAL INSTITUTE OF TECHNOLOGY NAGALAND**  
**Chumukedima, Dimapur**  
**Nagaland-797103**

**CONSTRUCTION OF FLOOR EXTENSION & AERATION**  
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NIT No.: 008/NIT-N/EO/2021/12-01 Dated: 22-12-2021

Sealed Quotations under two bid cover systems (1. Technical, 2. Financial) are invited through e-procurement portal of Govt. of India from reputed Civil Contractors for “Construction of Floor Extension & Aeration Plant in New Boy’s Hostel, NIT Nagaland”. The details of tender documents along with terms and conditions may be downloaded from the Institute website [www.nitnagaland.ac.in](http://www.nitnagaland.ac.in) or <https://eprocure.gov.in/>.

The bidder shall be required to deposit the earnest money(EMD)for an amount equivalent to 2 percent of the quoted value, which is refundable and a tender document fee for an amount of Rs.3000/- (Rupees Three Thousand only), which is non-refundable by way of Demand Draft only. The Demand Draft shall be drawn in favour of “IRG, NIT Nagaland” payable at Chumukedima, Dimapur. **The original Demand Drafts for Tender Document fee** shall be submitted in a sealed envelope bearing the following reference on the top left corner NIT No. 008/NIT-N/EO/2021/12-01 Dated: 22-12-2021 and addressed to “The Registrar, National Institute of Technology Nagaland, Chumukedima, Dimapur, Nagaland -797103.”

Bid(s) received beyond the due date and time of submission will be rejected. The bids shall be submitted on or before the due date and time (12-01-2022 at 11:00 hrs) to Govt. e-procure portal only. Tenders submitted by E-mails, Post, Courier, in person, etc., shall not be entertained. The Institute shall not be responsible for any postal delay for non-receipt of the tender fee.

In the event of the due date of receipt and opening of the tender being declared as holiday for the Institute, then due date of receipt / opening of the tender will be the next working day at the same time.

## 1. QUALIFICATION CRITERIA FOR BIDDERS

Sealed tenders are invited under Two Bid system (Part-I: Technical Bid and Part-II: Financial Bid (**submit to Govt. e-procure portal only**)) from eligible Civil Contractors meeting the following criteria:

- a) Contractor should have executed 1 (one) similar Civil works at any Central / State Government Educational / Research Institute or Institute of National Repute amounting to value not less than 1 crore in a single Work Order within the last 3 financial years (i.e., from 1/4/2018).
- b) The contractor should be registered/empaneled with CPWD Department/PWD, Govt. of Nagaland, Air Port Authorities of India/Indian Railways or Zonal Railways and State or National High Ways for Civil works. The proof of registered/empaneled should be attached for verification.
- c) Contractor must have GST registration.
- d) The Contractor should have EPF, ESIC and Labour Registration.
- e) The bidder should produce back up documents like purchase orders, work completion certificates for the above mentioned work.
- f) Bidder should have annual average turnover of Rs. 2 crores in last 3 (Three) years and audited balance sheet for the last 3 (Three) financial years should be enclosed with bid.
- g) If the bidder has undertaken any work for NIT Nagaland directly or through PMC of NIT Nagaland, a certification of satisfactory completion is required from the Engineer in charge, NIT Nagaland.
- h) Firms blacklisted by Govt. / Autonomous Body / PSU / Corporate organization are not eligible to Bid. If any stage of bidding process or during the currency of contract, such information comes to knowledge of Office of NIT Nagaland shall have right to reject the bid and forfeit the EMD or terminate the contract as the case may be without any compensation to the bidder.
- i) All the copies of documents enclosed with the tender document should be attested.
- j) Financial bid should be submitted **through Govt. e-procure portal only**. The financial quote should satisfy all the requirements and obligations under Contract Labour (Regulation and Abolition) Act. 1970; Contract Labour (Regulation and Abolition) Rules 1971; Minimum Wages Act- 1948; Payments of Wages Act- 1936; Payment of Bonus Act- 1952d and Amendment Act 1988; Employees Insurance Act-1938 and Amendment Act-1989; Employees Provident Fund Act, 1952; and the Rules notified under these Acts, failing which the same be rejected.

## **2. Instructions to Bidder for Submission**

- a. Interested Civil Contractors meeting the criteria are required to submit the Technical Bid and Financial Bid only through Government of India e-procure portal only i.e. <https://eprocure.gov.in/cppp/>.
- b. Bid(s) received beyond the due date of submission will be rejected. No tender document will be entertained by Post/E-mail/FAX.
- c. The Institute shall not be responsible for any postal delay about non-receipt / non-delivery of the tender fee /EMD.
- d. Technical bid(s) will be opened on 13-01-2022 at 12:00 Hrs in the Conference Hall, Administrative Block of the Institute in the presence of the bidder(s) or their authorized representative(s) who are present at the scheduled time. The Financial bid(s) of the technically qualified bidder(s) will be opened on 14-01-2022 at 12:00 Hrs.
- e. In the event of the due date of receipt and opening of the tender being holiday/declared as holiday for the Institute, then due date of receipt / opening of the tender will be the next working day at the same time.
- f. Any amendment or addition made to the tender are not permissible after opening of the tender. Incomplete tenders will be rejected.
- g. The Institute reserves the right to reject any or all tenders, wholly or partly or close the tender at any stage prior to award of contract without assigning any reason whatsoever.
- h. The bidder shall be required to deposit the earnest money (EMD) for an amount equivalent to 2 percent of the quoted value, which is refundable and a tender document fee for an amount of Rs. 3,000/- (Rupees Three Thousand only), which is non-refundable by way of Demand Draft only. The Demand Draft shall be drawn in favour of “IRG, NIT Nagaland” payable at Chumukedima, Dimapur.
- i. Any bid without the Demand Drafts of Earnest Money Deposit and tender fee is liable to be rejected. The Institute is not responsible to pay any interest on such amount. Earnest Money Deposit shall be forfeited, if the tenderer withdraws its bid during the period of tender validity.
- j. The Earnest Money Deposit of the successful bidder shall be refunded after the completion of contract/order. For unsuccessful bidder(s) it will be refunded after award of the contract.
- k. The rate quoted should be valid for a minimum period of 90 days. No claim for escalation of the rate will be considered after opening the tender.
- l. The Institute reserves the right to accept in part or in full any quotation(s) or reject any or more quotation(s) without assigning any reason or to cancel the tendering process and reject all quotation(s) at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidder(s).
- m. A prospective bidder requiring any clarification of the tender document may communicate to the Registrar, NIT Nagaland.
- n. At any time prior to the last date of receipt of bids, Institute may for any reason, whether at its own initiative or in response to a clarification requested by prospective bidder, modify the tender document by an amendment.
- o. The bidder should strictly adhere to the specification and releasing of the payment is subject to satisfactory report by the Institute / concerned authorities.

- p. The rates should be quoted in Indian Rupee including all taxes and Freight charges at F.O.R destination at NIT Nagaland, Chumukedima, Dimapur - 797103.
- q. The tender should be filled up and signed in Hindi or English language only, the total amount tendered should also be written in the English numerals only.
- r. Telegraphic/Electronic, conditional or incomplete tenders will not be accepted. Canvassing of any kind, direct or indirect, shall lead to disqualification of the bidder.
- s. The Tender should invariably be submitted in the prescribed form falling which it will not be entertained and will summarily be rejected.
- t. If the agency after receiving offer letter does not start his work within the stipulated time, his entire Earnest Money deposit submitted with the tender will be forfeited.
- u. NIT Nagaland reserves the right to accept or reject any or all or any part of the tender without assigning any reason thereof, and the decision of NIT Nagaland in this respect shall be final.
- v. The Bid shall remain valid for a period of not less than 90 days after the last date of receipt of the Bids.
- w. The evaluation of bid will be done for all the items put together and the contract will be awarded to the lowest responsive bidder.
- x. Any amendment and / or addition made to the tender are not permissible after opening of the tender. Incomplete tenders will be rejected.
- y. The Institute reserves the right to accept in part or in full any quotation(s) or reject any or more quotation(s) without assigning any reason or to cancel the tendering process and reject all quotation(s) at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidder(s).

**3. Delivery:** The work should be completed within 5 months of time from the date of issue of the work order.

**4. Payment Procedure:**

No advance amount can be paid. Maximum 5 times Part payment can be made within a week on submission of R/A bill and joint measurements.

**5. Applicable Law:**

- i. The contract shall be governed by the laws and procedures established by Govt. of India and subject to exclusive jurisdiction of Competent Court and Forum in Dimapur/India only.
- ii. Settlement of Disputes & Arbitration: In the event of any dispute or difference whatsoever arising under this contract or in connection therewith including any dispute relating to existing meaning and interpretation of this contract, the same shall be settled amicably in the first instance. All unresolved disputes/ difference shall be referred to the sole arbitration of mutually agreed person appointed by the Director, NIT Nagaland. Any disputes arising in any way connected to the agreement; only courts in Dimapur shall have the jurisdiction to determine/decide the same.

**REGISTRAR**

**NATIONAL INSTITUTE OF TECHNOLOGY NAGALAND**

(ON THE LETTER HEAD OF THE BIDDER)

**(To be put in a separate sealed envelope, marked TECHNICAL BID)**

Question are to be filled by the Agency/Firm applying for tender (each response/document must be given with pro per reference in the following tender document)

1.	Name of the Agency/Firm (Full address with Tel. No.) Tel.No: Mobile No.: Email:	
2.	Registration No. of the Company/Firm under State/Central Govt.	
3.	Details of any tie-ups(please attach details)	
4.	GSTIN No. PAN No. (Please attach attested copies of Registration Nos.)	

Place:

Date:

Signature of Authorized Signatory  
with seal of the Agency/firm

**UNDERTAKING**

If any information given by me/us in the above technical bid is found incorrect or false at any stage, the entire security deposit including earnest money may be forfeited by the National Institute of Technology Nagaland. I/we will not have any right to claim the earnest money.

Place:

Date:

Signature of Authorized Signatory  
with seal of the agency/firm

**NATIONAL INSTITUTE OF TECHNOLOGY NAGALAND**  
(ON THE LETTER HEAD OF THE BIDDER)

**TECHNICAL BID**

<b>Sl. No</b>	<b>Particulars</b>	<b>Compliance (Yes/No)</b>	<b>Enclosed (Yes/No)</b>
1.	The bidder should be registered/empaneled with CPWD /PWD, Government of Nagaland for Civil works. The proof of registered/empaneled should be attached for verification.		
2.	Bidder should have executed similar works at any Central or State Government Educational Institutions / Research Institute/Institute of National Repute amounting to not less than 1 crore in a single work order within the last 3 years		
3.	The bidder/contractor should have registered office in state of Nagaland for the last three years.		
4.	The bidder should have ESI & EPF registration.		
5.	The firm should furnish the registration/certificate of GST & PAN.		
6.	Average Annual Turnover of 2 crores as per Audited Balance Sheet for the last three financial years		
7.	Satisfactory completion certificate from NIT Nagaland (if applicable)		

Signature of the Bidder\_\_\_\_\_

Name \_\_\_\_\_

Date with Seal of the firm\_\_\_\_\_

**ANNEXURE:C**

**FINANCIAL BID**

**SUMMARY SHEET - I**

**Extension of Floor of New Boys Hostel**

Sl.No.	Description	Unit	Qty.	Rate	Amount
1	DSR Item No. 2.8.1, Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.	CuM	122.134		
2	DSR Item No. 2.10.1.2 Excavating trenches of required width for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing o surplus excavated soil as directed, within a lead of 50m. All kinds of soil for Pipes, cables etc. exceeding 80mm dia. But not exceeding 300mm dia.	CuM	80.000		
3	DSR Item No. 4.1.3, Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 40 mm nominal size)	CuM	4.936		
4	DSR Item No. 4.1.5, Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	CuM	3.576		
5	DSR Item No. 4.2.5, Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing: 1:3:6 (1 cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	CuM	30.842		



6	DSR Item No. 5.2.2, Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size)	CuM	10.490		
7	DSR Item No. 5.3, Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size).	CuM	28.786		
8	DSR Item No. 5.9.1, Centering and shuttering including strutting, propping etc. and removal of form for : foundations, footings, bases of columns, etc. for mass concrete	SqM	7.256		
9	DSR Item No. 5.9.3, Centering and shuttering including strutting, propping etc. and removal of form for : Suspended floors, roofs, landings, balconies and access platform	SqM	95.901		
10	DSR Item No. 5.9.4, Centering and shuttering including strutting, propping etc. and removal of form for : Shelves (Cast in situ)	SqM	95.985		
11	DSR Item No. 5.9.5, Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	SqM	137.803		
12	DSR Item No. 5.9.6, Centering and shuttering including strutting, propping etc. and removal of form for : Columns, Pillars, Piers, Abutments, Posts and Struts	SqM	101.905		
13	DSR2013 5.11.1 Extra for additional height in centring, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentring at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured): Suspended floors, roofs, landing, beams and balconies(Plan area to be measured)	SqM	79.821		
14	DSR Item No. 5.22A.6, Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more	Kg	6153.749		

15	DSR Item No. 5.44.1, Providing and fixing of expansion joint system related with floor location as per drawings and direction of Engineer-In-Charge. The joints system will be of extruded aluminum base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor /floor to wall expansion control system for various vertical localtion in load application areas that accommodates multi directional seismic movement without stress to it's components. System shall consist of metal profiles with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self- centering arrangement that freely rotates / moves in all directions. The Self - centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design and as approved by Engineer - inCharge. (Material shall confirm to ASTM 6063). Floor Joint of 100 mm gap	Mtr.	2.100		
16	DSR Item No. 5.45.1, Providing and fixing of expansion joint system related with wall joint (internal/ external) location as per drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221- 02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the multicellular to facilitate movement. (Material shall confirm to ASTM 6063). Wall Joint of 100 mm gap	Mtr.	6.400		
17	DSR Item No. 6.1.2, Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	CuM	17.232		
18	DSR Item No. 6.4.2, Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	CuM	60.815		
19	DSR Item No. 6.12.2, Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in : cement mortar 1:4 (1 cement : 4 coarse sand)	SqM	5.950		
20	DSR Item No. 6.13.2, Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement :4 coarse sand)	SqM	523.496		

21	DSR Item No. 6.15, Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	SqM	529.446		
22	DSR Item No. 8.2.2.2, Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade- Area of slab over 0.50 sqm	SqM	6.720		
23	DSR Item No. 8.5 Extra for providing opening of required size & shape for wash basin/kitchen sink in kitchen platform, vanity counter and similar location in marble/Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	Each	4.000		
24	DSR Item No. 8.31, Providing and fixing first quality ceramic glazed wall tiles conforming to IS:15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineerin- Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand)and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	SqM	110.264		
25	DSR Item No. 9.1.1, Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length ( hold fast lugs or dash fastener shall be paid for separately). Second class teak wood	CuM	1.040		
26	DSR Item No. 9.12 Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	SqM	6.300		
27	DSR Item No. 9.21.1, Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	SqM	75.600		
28	DSR Item No. 9.48.2, Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings /wooden frames with rawl plugs screws etc.	Kg	1554.983		
29	DSR Item No. 9.96.1, Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete : 300x16 mm	Each	18.000		

30	DSR Item No. 9.97.1, Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete : 300x10 mm	Each	36.000		
31	DSR Item No. 9.97.4, Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete : 150x10 mm	Each	86.000		
32	DSR Item No. 9.100.1, Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 125 mm	Each	104.000		
33	DSR Item No. 9.101.1, Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete. Single rubber stopper	Each	36.000		
34	DSR Item No. 9.119, Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in-Charge.	Mtr.	80.400		
35	DSR Item No. 9.120.1, Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2 ) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing. 30 mm thick plain PVC door shutters	SqM	27.720		

36	DSR Item No. 9.130.2, Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade I), of approved make, including IInd class teak wood lipping of 25 mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of Engineer-in-Charge. With non decorative veneering on both sides	SqM	105.840		
37	DSR Item No.10.14.1.1, Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strikeplate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineerin- charge: Profile B Fixing with adjustable lugs with split end tail to each jamb	Mtr.	214.200		
38	DSR Item No. 10.25.2, Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	4852.217		
39	DSR Item No. 11.39, Providing and laying rectified Glazed Ceramic floor tiles of size 300x300mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), including grouting the joints with white cement and matching pigments etc.,complete.	SqM	67.206		
40	DSR Item No. 11.41.2 Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS 15622, of approved make, in all colours and Size of Tile 600x600 mm	SqM	738.048		
41	DSR Item No. 12.34, Providing fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Fibre glass wool conforming to IS : 8183, density 24kg / m <sup>3</sup> , 50mm thick, wrapped in 200 G Virgin Polythene bags, fixed to ceiling with metallic cleats (50x50x3 mm) @ 60 cm and wire mesh of 12.5 mm x 24 gauge wire mesh, for top most ceiling of building.	SqM	766.774		

42	DSR Item No. 12.53, Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge.	SqM	766.774		
43	DSR Item No. 13.1.1, 12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	SqM	1232.777		
44	DSR Item No. 13.2.1, 15 mm cement plaster on the rough side of single or half brick wall of mix : 1:4 (1 cement: 4 fine sand)	SqM	589.552		
45	DSR Item No. 13.9.2, Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 20 mm cement plaster	SqM	94.045		
46	DSR Item No. 13.40, Distempering with dry distemper of approved brand and manufacture (two or more coats) of required shade on new work, over and including water thinnable priming coat to give an even shade.	SqM	1756.273		
47	DSR Item No. 13.46.1, Finishing walls with Acrylic Smooth exterior paint of required shade : New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	SqM	66.056		
48	DSR Item No. 13.62.1, Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	SqM	401.475		
49	DSR Item No. 13.80, Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	SqM	1756.273		

50	DSR Item No. 14.90.1, Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane : 3 mm thick	SqM	164.912		
51	DSR Item No. 15.3, Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	CuM	6.700		
52	DSR Item No. 15.19, Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge.	Kg	1564.167		
53	DSR Item No. 15.28.1, Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of: G.S. Sheet	SqM	67.023		
54	DSR2013 21.1.1.2, Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) : For fixed portion: Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	532.796		
55	DSR Item No. 21.1.2.2, Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285..... (Glazing, paneling and dash fasteners to be paid for separately) :For shutters of doors, windows & ventilators including Providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	229.630		

56	DSR Item No. 21.3.2, Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap eading shall be paid in basic item): With float glass panes of 5.50 mm thickness	SqM	100.110		
57	DSR item No. 21.8.1, Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete. Up to 5mm depth and 5 mm width	Mtr.	284.800		
58	DSR Item No. 17.2.1, Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid	Each	8.000		
59	DSR Item No. 17.7A, Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:- White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	Each	8.000		
60	DSR Item No. 17.32.4, Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape 1500x450 mm	SqM	4.000		
61	DSR Item No. 17.70.1, Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	Each	8.000		
62	DSR Item No. 17.73.2, Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	Each	6.000		
63	DSR Item No. 18.7.6, Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work- Exposed on wall 50 mm nominal outer dia Pipes	Mtr.	280.000		



64	DSR Item No. 18.8.1, Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	Mtr.	45.000		
65	DSR Item No. 18.8.3, Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 25 mm nominal outer dia Pipes	Mtr.	42.420		
66	DSR Item No. 18.17.4, Providing and fixing gun metal gate valve with C.I. wheel of approved quality(screwed end ) 50 mm nominal bore	Each	16.000		
67	DSR Item No. 18.21.2.1, Providing and fixing un-plasticised PVC connection pipe with brass unions :45 cm length	Each	16.000		
68	DSR Item No. 18.22.2, Providing and fixing C.P. brass shower rose with 15 or 20mm inlet 150 mm diameter	Each	6.000		
69	DSR Item No. 18.51.1, Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore	Each	8.000		
70	DSR Item No. 18.53.1, Providing and fixing C.P. brass angle valve for basin mixer and geyser points of pproved quality conforming to IS:8931 a) 15 mm nominal bore	Each	16.000		
71	DSR Item No. 18.58.1.1, Providing and fixing PTMT grating of approved quality and colour. Circular type -100 mm nominal dia	Each	20.000		
72	DSR 2013 19.7.1.1 Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design: Inside size 90x80cm and 45cm deep including C.I. cover with frame (light duty) 455x610mm internal dimensions total weight of cover and frame to be not less than 38kg (weight of cover 23kg and weight of frame 15 kg) With bricks class designation 7.5	Each	3.000		
73	DSR 2013 19.8.1.1 Extra for depth for Manholes Size 90x80cm With bricks class designation 7.5	Mtr.	1.000		

74	DSR 2013 19.21.1 Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (a cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete: For pipes 100 to 250 mm diameter	Each	2.000		
75	NON DSR Item No. 1, Providing , fixing testing and commissioning of SWR TYPE-B soil, waste and vent pipes (IS:13592-1992) including all fittings confirming to IS 14735-99,rubber ring confirms to IS 5382 including all required fittings e.g. bends, junctions, cowls, offsets, access pieces, clamps etc. jointing with ring Joints as per recommendation of manufacturer pecifications including cutting, chasing of brick/RCC structure and making good the same as required complete in all respects as per direction of Project -In- Charge. 110 mm dia.	Mtr.	56.610		
<b>Total = (A) =</b>					

**SUMMARY SHEET - II****Construction of Aeration Plant**

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>
1	DSR Item No. 2.8.1, Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	CuM	34.432		
2	DSR Item No. 2.25, 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	10.077		
3	DSR Item No. 4.1.3, Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	CuM	0.294		
4	DSR Item No. 4.1.8, Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	CuM	1.963		
5	DSR Item No. 5.2.2, Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size)	CuM	12.900		
6	DSR Item No. 5.9.1, Centering and shuttering including strutting, propping etc. and removal of form for : Foundations, footings, bases of columns, etc. for mass concrete	SqM	8.600		
7	DSR Item No. 5.9.2, Centering and shuttering including strutting, propping etc. and removal of form for : Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	SqM	312.963		
8	DSR Item No. 5.9.6, Centering and shuttering including strutting, propping etc. and removal of form for : Columns, Pillars, Piers, Abutments, Posts and Struts	SqM	3.988		
9	DSR Item No. 5.22.6, Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars	Kg	1051.512		

10	DSR Item No. 8.31, Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	SqM	31.149		
11	DSR Item No. 11.37, Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	SqM	12.560		
12	DSR Item No. 13.46.1, Finishing walls with Acrylic Smooth exterior paint of required shade : New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	SqM	19.193		
13	DSR Item No. 18.8.4, Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc 32 mm nominal outer dia Pipes	Mtr.	14.000		
14	DSR Item No. 18.17.2, Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 32 mm nominal bore.	Each	1.000		
15	NON DSR Item No. 1, Supply of 2HP monoblock water pump (Make CRI, Kirloskar or equivalent)	Each	1.000		
<b>Total = (B)</b>					
<b>Grand Total = (A)+(B) =</b>					

Signature of the Bidder\_\_\_\_\_

Name \_\_\_\_\_

Date with Seal of the firm\_\_\_\_\_

(ON THE LETTER HEAD OF THE BIDDER)

**BANKING INFORMATION**

<b>Sl.No.</b>	<b>Particulars</b>	<b>Information</b>
1.	Firm(Beneficiary)Name	
2.	Please enclose a cancelled cheque and Copy of PAN card. Cancelled cheque & PAN card is to be submitted only Once	
3.	Complete Bank Account No. of the Firm[beneficiary]. [in case of change in bank account vendor should write to Account Office]	
4.	Bank Name	
5.	Bank Address	
6.	IFSC Code no	
7.	Mobile no(for SMS)	
8.	Email ID (for information)	

We undertake that all information provided above is correct and NIT Nagaland will not be responsible incase of any error on the part of firm.

**(Seal and Signature of the firm)**