

TENUGHAT VIDYUT NIGAM LIMITED
(A GOVT. OF JHARKHAND UNDERTAKING)
HINOO, DORANDA, RANCHI-834002
FAX: 0651-2251205
Website: www.tvnlonline.com

CST NO:229C

TIN NO:200992201429

PAN NO:AACCT1197L

NIT No. 044/CIVIL/W/TVNL/RAN/2016-17 Due on 27.02.2017



TENDER DOCUMENT

SUBJECT: CONSTRUCTION OF LEFT OVER COLONY BOUNDARY WALL AND PROVISION OF FENCING WITH CONCERTINA COIL IN SURROUNDING AREA WITH GATE AT VARIOUS LOCATION OF COLONY AT TTPS LALPANIA.



Tenughat Vidyut Nigam Limited

(A Govt. of Jharkhand Undertaking)
Hinoo, Doranda, Ranchi-834002, Jharkhand
TEL: 0651-2250967, 2252202, Fax: 0651-2251205

Letter No

Dated

NOTICE INVITING TENDER NIT

No. 044/CIVIL/W/TVNL/RAN/2016-17.

On behalf of Tenughat Vidyut Nigam Limited (TVNL), Ranchi sealed tenders in two parts (Part-I Technical & Commercial Bid, Part-II Price Bid) containing three envelopes A, B & C (Requisite cost of Tender DoM3ent & Earnest Money of specific value in envelope 'A', Technical & Commercial Bid in envelope 'B' and Price Bid in envelope 'C') are invited from experienced, reputed and financially sound firms for construction of left over colony boundary wall and provision of fencing with concertina coil in surrounding area with gate at various location of colony at TTPS Lalpania, Dist. Bokaro, Jharkhand, the details of which are as follows:

Description of Work	Construction of left over colony boundary wall and provision of fencing with concertina coil in surrounding area with gate at various location of colony at TTPS Lalpania
Estimated Cost (Rs.)	Rs. 1,60,79,035 /- (Rupees One crore sixty lakh seventy nine thousand and thirty five) only plus Service Tax extra as applicable.
Cost of Tender DoM3ents (Non Refundable)	Rs. 15,000/- (Rupees Fifteen thousand) only.
Amount of EM to be deposited in the form of DD/BG	Rs.3,22,000/- (Rupees Three lakh and twenty two thousand) only.
Completion Period	09 (Nine) months
Downloading of Tender Paper	From 03.02.2017
Last Date & Time for receipt of Tender Paper	27.02.2017 up to 14:00 Hrs.
Date & Time of Opening of Part-I of Tender	27.02.2017 at 16:00 Hrs.
Place of submission of bid doM3ents and address for communication	Electrical Superintending Engineer (C&M), Tenughat Vidyut Nigam Limited, Hinoo, Ranchi-834002.

1. The Bidder should have the following Qualifying Requirements (QR):

- The bidders should have to submit proof of working experience of similar work in any Govt./ Semi Govt. / CPSU/SPSU/ SEB's.
- The average annual financial turnover of bidder during the last 03 (three) years, ending 31st March of the previous financial year, should be at least 30% of the estimated cost.
- The bidder should have experience of having successfully completed similar works during last seven years ending last day of month previous to the one in which applications are invited. The successful completed similar work shall be either of the following :

i. Three similar completed works each costing not less than the amount equal to 40% of the estimated cost.

OR

ii. Two similar completed works each costing not less than the amount equal to 50% of the estimated cost.

OR

iii. One similar completed work costing not less than the amount equal to 80% of the estimated cost.

Similar work means the bidder must have working experience of civil work in any Govt./ Semi Govt. / CPSU/SPSU/ SEB's.

- d.** The bidder should have financial credibility /capacity of at least 20% of the estimated cost. Bidder may submit Bank Solvency Certificate of any Indian Nationalized / Scheduled Commercial Bank in support of their financial credibility /capacity.
- 2.** The tender doM3ent is to be downloaded from the TVNL website www.tvnlonline.com. The cost of tender doM3ent shall be deposited at the time of submission of tender paper in the shape of Bank Draft issued by any Nationalized/Scheduled Bank in favour of "TENUGHAT VIDYUT NIGAM LIMITED" payable at Ranchi. Tender shall not be considered without cost of tender doM3ent. Any type of tempering/alteration with tender doM3ent shall not be allowed and offer, if submitted so, will be summarily rejected.
- 3.** Tender without Earnest Money shall not be considered. Offers shall be accompanied with the cost of tender doM3ent and earnest money deposit (EMD) of requisite value as specified above in a separate envelope 'A' failing which offers are liable for rejection. EMD may be furnished in the form of Demand Draft/ Bank Guarantee from any Indian Nationalized Bank/ Schedule Commercial Bank in favour of "TENUGHAT VIDYUT NIGAM LIMITED" payable at Ranchi. The Bank Guarantee should remain valid for 12 months.
- 4.** The earnest money will be forfeited on revocation of tender before expiry of validity of the tender or on refusal to enter into the contract after the award is made by TVNL to the bidder.
- 5.** Any corrigendum/Addendum/Extension of bid opening date and cancellation of NIT will be published through our website www.tvnlonline.com only and not through newspaper. The bidders are requested to visit our website regularly for any addendum/corrigendum/extension till opening of NIT.
- 6.** The due date of bid opening as mentioned in the tender will remain firm. However, in case of unforeseen circumstances or due to administrative reasons the bids are not opened on the due date, the same shall be opened on the next working day at the same time. In case the last date of submission of bids is declared as holiday, the bids received up to the time of closing of bids on the next working day shall be considered for opening.
- 7.** The undersigned reserves the right to reject any or all tenders or to distribute the job among the bidders without assigning any reason thereof.

(R. Ranjan)
Electrical Superintending Engineer (C&M)

TENUGHAT VIDYUT NIGAM LIMITED
HINOO, DORANDA, RANCHI-834002

BILL OF QUANTITY

PART- I (TECHNICAL& COMMERCIAL)

NIT No. 044/CIVIL/W/TVNL/RAN/2016-17

Sub: Construction of left over colony boundary wall and provision of fencing with concertina coil in surrounding area with gate at various location of colony at TTPS Lalpania.

S.N.	Particulars	Details to be furnished by the Bidder (Enclose separate sheets if required)	Flag No.	Page No.
1.	Name of the Bidder (Enclose Letter Head of firm)		I	
2.	Address of Bidder with Telephone, Fax, E-mail		II	
3.	Name of the Proprietor/ Head of the Firm and its key personnel with organizational chart giving details of qualification and experience etc.		III	
4.	Details of maintenance set up with resources like permanent employees (with designation & strength), tools & tackle and other equipment with capacities		IV	
5.	Name and Qualification of the site-in-charge		V	
6.	Work Experience of Bidder (Attach copy of work order of similar work and its successful completion certificate during last seven years as per Sl. No. 1.c of QR)	Work Order No..... Dated..... Completion Certificate Dated..... Work Order No..... Dated..... Completion Certificate Dated..... Work Order No..... Dated..... Completion Certificate Dated.....	VI	
7.	Financial Credibility/ Capacity (Attach Bank Solvency Certificate)		VII	
8.	Average annual financial turnover of bidder during the last 03 years (Attach audited Balance Sheet & P/L Account for last three years ending 31 st March, 2014 is necessary)	Average annual financial turnover of bidder during the last 03 (three) years Rs..... Annual Turnover FY 2015-16: Rs..... FY 2014-15: Rs.....	VIII	

		FY 2013-14: Rs.....		
9.	Name & Designation of Authorized Signatory (Attach Power of Attorney if applicable)		IX	
10.	Nature of Firm (Proprietorship/Partnership /Pvt. Ltd./Public Sector) (Attach proof)		X	
11.	Permanent Account Number (PAN) (Attach proof)		XI	
12.	Service Tax Registration Number (Attach proof)		XII	
13.	Sales Tax/Value Added Tax Registration Number / TIN (Attach proof)		XIII	
14.	Labour License No. (Attach copy of registration)		XIV	
15.	EPF. Code No. (Attach copy of registration)		XV	
16.	Character Certificate of the Head of the Firm issued within last six month from due date of NIT. (Issued by the Officer not below the rank of Magistrate)		XVI	
17.	Particulars of Earnest Money (DD No. /BG No. & Date)		XVII	
18.	Particulars of Cost of Tender DoM3ent(BOQ) (DD No. & Date)		XVIII	
19.	Other details and remarks, if any		XIX	

(Signature & Seal of Bidder)

TENUGHAT VIDYUT NIGAM LIMITED
HINOO, DORANDA, RANCHI-834002

NIT No. 044/CIVIL/W/TVNL/RAN/2016-17

Sub: Construction of left over colony boundary wall and provision of fencing with concertina coil in surrounding area with gate at various location of colony at TTPS Lalpania.

GENERAL TERMS & CONDITIONS

- 1. Validity of Offer:** The bid submitted by the bidders should remain valid for a minimum period of 120 days from the date of opening of Part-I unless otherwise specified.
- 2. Late Receipt of the Tender:** Special attention of the bidder is invited about the receipt of the tender in time. Tenders received after the stipulated date and time due to any reason, whatsoever, shall not be considered. Bidders are requested to see that their bids are delivered in the office of TVNL before the prescribed date and time.
- 3. Inspection of Site:** Before quoting the rate, bidders are advised to visit the work site and get satisfied with scope of work for which rates are to be quoted. Engineer -in -charge may be consulted for any clarification regarding scope of work and terms of tender. Bidder should go through the terms and conditions and technical specification of work carefully and sign in all pages of the tender doM3ent.
- 4. Instruction to Bidder:**
 - a.** Bidders are advised to submit their bids strictly based on the scope of work, terms and conditions contained in the bid doM3ent and subsequent revisions/amendments, if any. The bid should be submitted along with covering letter.
 - b.** The bid shall be prepared and submitted by typing or printing in English on white paper in consecutively numbered pages duly signed by the authorized signatory with company seal affixed on each page. Any part of the bid, which is not specifically signed by the authorized signatory and not affixed with company seal, may not be considered for the purpose of evaluation.
 - c.** Copy of bid doM3ent, amendments/revisions to bid doM3ent if any, shall be signed and submitted along with the bid.
 - d.** Complete bid doM3ent including all enclosures should preferably be submitted in hard bond or spiral binding and all pages should be numbered and must be signed by the authorized signatory with seal of the company.
 - e.** The **Part-I (Techno-commercial Bid)** should be sealed in a separate envelope superscribed with NIT No., “**Part – I (Techno-commercial Bid)**”, Name and address of the bidding firm, and should be addressed to ESE (C&M), Tenughat Vidyut Nigam Limited, Hinoo, Ranchi-834002.
 - f.** The **Part-II (Price Bid)** should be sealed in a separate envelope super scribed with NIT No., “**Part – II (Price Bid)**”, Name and address of the bidding firm, and should be addressed to ESE (C&M), Tenughat Vidyut Nigam Limited, Hinoo, Ranchi-834002. The rate to be quoted in price part (Part-II) shall be in figure and in words both. In case of difference in the rates quoted in figures and words, the amount in words shall prevail. The bidder must quote firm rates. Bid with variable rates shall be considered invalid.
 - g.** Both the envelopes containing Part-I (Techno-commercial Bid and Part-II (Price Bid) should be kept in a third envelope super scribed with NIT No., Name and address of the bidding firm, and should be addressed to ESE (C&M), Tenughat Vidyut Nigam Limited, Hinoo, Ranchi-834002. Complete tender or tenders not submitted as per requirement as indicated in the NIT are likely to be rejected.
 - h.** Bidders shall submit their offer strictly as per terms and conditions of the tender doM3ent without any deviation. If at any time any of the doM3ents/information submitted by the bidder is found to be incorrect, false or untruthful, the bid and/or the resultant order may be summarily rejected/ cancelled at the risk of the bidder.
 - i.** Failure to furnish all information and doM3entary evidence as stipulated in the bid doM3ent or submission of an offer that is not substantially responsive to the bid doM3ent in all respects shall be summarily rejected.
 - j.** All bids will be received in duly sealed cover within the due date and time. Bids received after the due date and time is liable for outright rejection.

5. **Earnest Money Deposit (EMD):** Offers shall be accompanied with Earnest Money Deposit (EMD) of requisite value as specified in a separate envelope failing which offers are liable for rejection. EMD may be furnished in the form of Demand Draft/ Bank Guarantee from any Indian Nationalized Bank/Schedule Commercial Bank in favour of “TENUGHAT VIDYUT NIGAM LIMITED” payable at Ranchi. The Bank Guarantee should remain valid for 12 months. The earnest money will be forfeited on revocation of tender before expiry of validity of the tender or on refusal to enter into the contract agreement after the award is made by TVNL to the bidder.
6. **Security Deposit:** The successful bidder shall have to deposit total security deposit @ **10%** of order value as performance guarantee in which initial security money @ **5%** of the order value (including earnest money deposited along with tender) before executing the agreement, balance **5%** of security money will be deducted from R/A bills. The security money will be released after successful completion of work and closure of contract. Initial security money will be accepted as Bank Draft/ Bank Guarantee in the prescribed format .
7. **Payment Terms:** The Contractor shall submit bill in triplicate for work done to the Engineer - in – charge, which will be verified by Engineer - in – Charge and department will make payment to the contractor subject to availability of fund. No interest will be paid in case of delay in any payment.. The contractor shall produce documentary evidence in support of deposit of EPF & service tax before release of payment.
8. **Paying Authority:** The Accounts Officer, TVNL, Ranchi will be the Paying Authority.
9. **Engineer-in-Charge:** SE (C) will be the Engineer-in-Charge for this work. The works are to be executed as per direction of Engineer-in-Charge. Anything not mentioned here in shall be decided by the in charge of the work and shall be binding on the contractor.
10. **Idle Charges:** No charges for idle men, machine, plant and equipment will be allowed to agency for some reason or the other beyond control of the department.
11. **Safety Measures:** The Contractor shall observe all the safety measures. Safety appliances have to be arranged by the Contractor at his own cost. Any compensation payable to the Contractor’s employee in the event of accident or causality has to borne by the Contractor himself and TVNL will not be responsible on this accounts in any way. In case of any damage due to negligence mishandling and mal operation by the staff of contractor, the damage would be made good by the contractor at his/own own cost. In case of non compliance, proportionate deduction will be made from the bills of the contractor.
12. **Scope of the work:** Scope of the work is attached (**Annexure-I**) here as a guideline to execute the work. However contractor has to execute all the work as per direction of Engineer-in-Charge.
13. **Agreement:** The firm or his legally authorized representative having Power of Attorney will have to execute an agreement with the ordering authority within **15** days of issue of order in the event of placement of order on them. The agreement will have to be prepared on a non-judicial stamp paper of Rs.50/- on Nigam’s format. Bank Guarantee against Security Deposit, Performance Guarantee etc. as per order will have to be furnished well before execution of agreement. The contractor is required to produce all original paper and documents for verification before agreement failing which order will be cancelled. Contractor will not be allowed to start the work without executing the agreement.
14. **Jurisdiction of Court:** Any dispute between the Contractor and TVNL shall be settled in the civil court, at Ranchi, Jharkhand only.
15. **Labour Laws:** The bidder has to follow the guidelines laid under the labour law, workmen compensation, and EPF rules in respect of minimum wages, EPF payment and other service condition. In the event of any accident / casualty to the employees of contractor, the compensation payable to the employees is to be borne by the contractor and TVNL will not be responsible in any way.
16. **Minimum Wage Guarantee:** The contractor shall strictly ensure that the minimum wages as stipulated by GoJ from time to time is paid to their workmen. Any increase in minimum wages during the period of contract, will have to be paid to their workmen without any claim on TTPS/TVNL. If the contractor fails to

comply with guarantee of minimum wages then the agreement is liable to be terminated and security money may be forfeited.

17. **Taxes:** All statutory taxes as applicable shall be deducted from each the bill of contractor.
18. **Violation of Terms & Conditions of Tender:** All terms and conditions of tender shall form a part of the contract. If contractor fails to execute the work up to entire satisfaction of Engineer -in -Charge as per terms & conditions of tender, then the contract agreement can be terminated after one month prior notice and security money shall be forfeited.
19. **Subletting:** The successful bidder will have to execute the work directly. No subletting will be allowed.
20. **Competent Authority:** Managing Director TVNL reserves the right to extend the due date and to reject any/all the tenders or to increase / reduce/ distribute the quantity of tender without assigning any reason thereof and not bound to accept the lowest tender or to assign any reason for the rejection of the lowest tender. During the execution of work in case of any dispute between the Engineer-in -Charge and contractor, the decision of GM-M3-CE, Tenughat TPS will be final and binding.
21. **Man Power:** A list of manpower arranged by the contractor should be submitted to Engineer -in -Charge of the work before deployment and same should be deployed with due permission of Engineer -in -Charge. If the performance of the deployed person is not found up to the mark at any time, the contractor will have to replace them with experienced and suitable person.
22. **Tools & Tackles:** The contractor should have to arrange minimum of minor and special tools & tackles as per scope of work.
23. **Variation of quantities of work:** The contract price is based on the units rates and the quantities of items stipulated in the contract. The contract price may undergo corresponding change, if the work orders for change in quantities of items during execution of work. However, the units rates indicated in price schedules shall remain firm and shall not be subject to any escalation whatsoever. All unit prices shall be firm for variation within a limit of $\pm 15\%$ Contract value may vary within $\pm 15\%$ of the grand total of schedule as included in Work Order. Such variation shall in no degree affect the validity of the contract and it shall be performed by the contractor as provided therein and be subjected to the conditions, situation and obligations originally and expressly included in the specification and amount to be paid therefore shall be calculated in accordance with accepted scheduled of rate.
NOTE: - As specified above and reiterated here for clarification that the contractor shall be bound to carry out and increased or decreased portion of work without any change in unit prices and no claim on any account shall be entertained for variation without the Limit of variation allowable under the contract, is on the contract value of as a whole as included in work order and not on the value of work of any individual items.
24. **Site Cleaning:** The Contractor must keep clean the working area after completion of the job. Waste materials and garbage shall be disposed off by the contractor at suitable place as per the instruction of the Engineer-in-Charge.
25. **Date of commencement:** The date of commencement of work will be considered from the date of **issue of work order.**
26. **Liquidated Damages for Delay in Completion:** In case of any delay in the execution of the work beyond the stipulated date of completion/ Completion schedule including any extension permitted in writing, TVNL reserves right to recover from the agency a sum equivalent to 0.5% of the value of the delay work for each week of delay and part thereof subject to a maximum of 5% of the total value of the work.
27. **Mobilization Time:** The successful bidder will be given maximum one month time from the date of LOI/Work Order for mobilization of resources, manpower and starting the work. The contractor failing to enter in to agreement and start the work within one month will lose the work order and earnest money/security money and work will be allotted to L2, L3.....bidder if they agree to work on L₁ rate.

(Signature & Seal of Bidder)

TENUGHAT VIDYUT NIGAM LIMITED
HINOO, DORANDA, RANCHI-834002

NIT No.044/CIVIL/W/TVNL/RAN/2016-17

Sub: Construction of left over colony boundary wall and provision of fencing with concertina coil in surrounding area with gate at various location of colony at TTPS Lalpania.

ANNEXURE-I

Scope of work

Construction of left over colony Boundary wall and provision of fencing with concertina coil in surrounding area gate at various locations at TTPS Lalpania.

1. Excavation:

Earth works in excavation in all kind of soil and rock over the areas including disposal of excavated earth. The details specification as per Jharkhand Scheduled of rate (JSR) -2016

2. PCC:

Providing PCC/RCC M-100 with nominal mix of (1:3:6) in foundation and plinth with approved quality of stone metal grade III(53.2mm to 22.4mm size) & clean coarse sand of FM 2.5 to 3 including screening shuttering mixing cement concrete in cement mixer and placing in position vibrating striking curing tax and royalty all complete job as per building specification .

3. RCC,

Providing RCC M -150 with nominal mix of (1:2:4) in foundation, plinth, all types of beam, column, stiffener with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of FM 2.5 to 3 including shuttering mixing cement concrete in cement mixer and placing in position vibration vibrating striking curing tax and royalty all complete job as per building specification.

4. TMT Bar:

Providing Tor steel reinforcement 8mm,10 mm,12 mm & 16 mm dia bars (TMT coil Fe 500) (Only valid for SAIL & TATA Steel) as per approved design and drawing excluding carriage of M.S roads (straight or in coils) to work site cutting bending of rust placing the rods in position .

5. Brick work:

Providing designation 75A brick work in CM (1:6) in foundation & plinth and Super structure with approved quality of clean coarse sand of FM-2 to 2.5 including providing 10mm thick mortar joints cost of screening materials ranking out joints to 15mm depth curing taxes and royalty all complete as per building specification.

6. Stone work:

Providing random rubble stone masonry in CM(1:6) in foundation & plinth and Super structure with hammer dressed stone of less than 0.03 cube meter in volume and clean coarse sand of FM 2 to 2.5 including cost of screening ranking out joints to 20mm depth curing taxes and royalty all complete as per building specification.

7. Plastering:

Providing 12mm thick cement plaster (1:6) with clean coarse sand of FM 1.5 including screening curing with all leads and lifts of water scaffolding taxes and royalty as per building specification.

8. Steel work item:

Providing and Fixing including fitting of Angle/channel including cutting, welding for making of Y shape/ cutting of existing pillar.

9. Barbed wire and concertina coil:

Providing and Fixing & fitting of barbed wire of 4 point, 2ply 12 SWG, 150 mm (GI) 10 run on Y shape as well as punched tap concertina coil 600 mm dia 10 meter open able length (total length 90 m) having 50 nos. Rounds per 6 meter length up 3 meter height of wall with existing angle iron Y shaped placed 2.4 m or 3.0 m apart on top of boundary wall as per building specification.

10. Exterior paint:

Providing two coat of snowcem of approved shade and make over a coat of cement primer on new and preparing the walls scaffolding curing taxes all complete as per building specification.

11. Gate:

Providing of M.S Gate by angle, MS sheet including supply of material, welding Transportation & paints two coat primer & two coat synthetic enamel. Measurement of the gate will be taken on workshop of vender after completion of fabrication than gate will be transported to site.

12. Steel Painting:

Providing two coats of painting with ready mix paint of approved shade and make over steel surface including cleaning the surface thoroughly cost of scaffolding and taxes all complete.

(Signature & Seal of Bidder)

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Sl.No.	Item of work	Quantity.	unit
1	Earth work in excavation on foundation trenches in ordinary soil (vide classification of soil item -A) and disposal of excavated earth a obtained to a distance up to 50M including all lifts with leaving ramming the foundation trenches removing roots of trees shrubs all complete as per approved design and per building specification and direction of E/I. (i) ordinary soil (vide classification of soil item -A)	845.21	M ³
2	(ii) Extra for each earth work in hard soil as per specification and direction of E/I.(Vide classification of soil item B)	281.74	M ³
3	Earth work in marshy, slushy and daldal	140.87	M ³
4	Ordinary rock or soft rock item C)	422.6	M ³
5	Hard rock item D)	140.87	M ³
6	Earth filling in foundation trenches and plinth in layers not exceeding 150mm thick will watered rammed fully completed and fine dressed with earth obtained from excavation of foundation trenches with a lead of 50mm and lift of 1.5M all complete as per building specification and direction of E/I.(mode of measurement compacted volume)	469.56	M ³
7	Providing coarse cleaning sand in filling foundation trenches or in plinth including ramming and watering in layers not exceeding 150mm thick with all leads and lifts including cost of all materials labours royalty and taxes all complete as per building specification and direction of E/I.(Mode of measurement compacted volume.)	75.21	M ³
8	Providing designation 75B one brick flat soiling joints filled with local sand including cost of watering taxes royalty all complete as per building specification of E/I.	1,002.80	M ²
9	Providing PCC/RCC M100 with nominal mix of (1:3:6) in foundation and plinth with approved quality of stone metal grade-III(50mm to 25mm size) clean coarse sand of FM 2.5 to 3 including screening shuttering mixing cement concrete in cement mixer and placing in position vibrating striking curing taxes and royalty all complete job as per building specification and direction of E/I.	145.26	M ³

10	Providing designation 75A brick work in CM (1:6) in foundation and plinth with approved quality of clean coarse sand of FM-2 to 2.5 including providing 10mm thick mortar joints cost of screening materials ranking out joints to 15mm depth curing taxes and royalty all complete as per building specification and direction of E/I.	778.8	M ³
11	Providing designation 75A brick work in CM (1:6) in super structure with approved quality of clean coarse sand of FM-2 to 2.5 including providing 10mm thick mortar joints cost of screening materials ranking out joints to 15mm depth curing taxes and royalty all complete as per building specification and direction of E/I.	674.69	M ³
12	Providing random rubble stone masonry in CM(1:6) in foundation and plinth with hammer dressed stone of less than 0.03 cube meter in volume and clean coarse sand of FM 2 to 2.5 including cost of screening ranking out joints to 20mm depth curing taxes and royalty all complete as per building specification and direction of E/I.	342	M ³
13	Providing random rubble stone masonry in CM(1:6) in super structure including cost of screening of materials scaffolding ranking out joints to 20mm depth curing taxes and royalty all complete as per building specification and direction of E/I.	652.41	M ³
14	Providing PCC/RCC M-150 with nominal mix of (1:2:4) in foundation and plinth with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M 2.5 to 3 including screening shuttering mixing cement concrete in cement mixer and placing in position vibration striking curing tax and royalty all complete job as per building specification and direction of E/I	24.09	M ³
15	Providing RCC M-150 with nominal mix of (1:2:4) in foundation and plinth with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M 2.5 to 3 including screening shuttering mixing cement concrete in cement mixer and placing in position vibration striking curing tax and royalty all complete job as per building specification and direction of E/I	27.86	M ³
16	Providing RCC M-150 with nominal mix f (1:2:4) in columns with approved quality of stone chips 20mm to 6mm to size graded and clean coarse sand of FM 2.5 to 3 including screening shuttering mixing cement concrete in cement mixer and placing in position vibration vibrating striking curing tax and royalty all complete job as per building specification and direction of E/I.	10.56	M ³
17	Providing R.C.C M-150 with nominal mix of (1:2:4) in beam of all types with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of FM 2.5 to 3 including shuttering mixing cement concrete in cement mixer and placing in position vibration vibrating striking curing (but excluding reinforcement) taxes and royalty all complete job as per building specification and direction of E/I	4.69	M ³

18	Extra for cantering and shuttering in RCC work of beam stiffener and column foundation and plinth (having similar design and specification as for such work in superstructure)as per specification and direction of E/I.	4.69	M ³
19	Extra for cantering and shuttering in RCC work of column foundation and plinth (having similar design and specification as for such work in superstructure)as per specification and direction of E/I.	38.42	M ³
20	Providing cement flush pointing (1:3) with clean coarse sand of FM 1.5 including screening curing with all leads and lifts of water scaffolding taxes and royalty as per building and direction of E/I.	1,406	M ³
21	Providing 12mm thick cement plaster (1:6) including curing carriage of water with all leads and lifts as per building specification and direction of E/I.	5,181.59	M ³
22	Providing Tor steel reinforcement 8mm,10 mm,12 mm & 16 mm dia bars as per approved design and drawing excluding carriage of M.S roads (straight or in coils) to work site cutting bending of rust placing the rods in position all complete as per direction of E/I.		
22.1	8 mm (TMT coil Fe 500) (Only valid for SAIL & TATA Steel)	0.48	MT
22.2	10 mm (TMT coil Fe 500) (Only valid for SAIL & TATA Steel)	1.02	MT
22.3	12 mm (TMT coil Fe 500) (Only valid for SAIL & TATA Steel)	1.31	MT
22.4	16 mm (TMT coil Fe 500) (Only valid for SAIL & TATA Steel)	0.26	MT
23	S/F/F Steel gate with M.S. channel 80 x 80 x 10 ,M.S. square bar of 20 mm size, with both side partial M.S. Plate, roller rail, hinge etc. all complete as per building specification and direction of E/I.	9,618.20	KG
24	Providing two coats of painting with ready mix paint of approved shade and make over steel surface including cleaning the surface thoroughly cost of scaffolding and taxes all complete as per direction of E/I.	60.9	M ²
25	Labour for fitting and fixing barbed wire fencing in four rows horizontal up MT a height of 1.85M and two diagonals including fixing of post in cement concrete at 2.5m centres including cost of staples (but excluding the cost of cement concrete angle iron post its cutting and making holes nuts and bolts) all complete as per direction of E/I.	3,827	M
26	Drilling 6mm dia hole M.S angle iron for fixing of staples etc as per building specification and direction of E/I.	10,280	each
27	Labour for cutting of M.S angle iron post MT required length one end spitted as fishtailed in a length of 150mm complete as per building specification and direction of E/I.	1,285	each
28	Supplying fitting and fixing straining bolts with nuts size 2.5cm x 10mm dia MT tighten the barbed wire corner post complete as per building specification and direction of E/I.	640	each

29	Labour for fabricating, erection, hoisting and fixing in position structural steel work in R.S joist channel angle Tee plate lattice member built up compound section in column girder staircase or truss including cost of gusset plate at all height and depths bolting welding (marching wherever necessary) with applying a priming cost of red lead paint all complete as per approved drawing building specification and direction of E/I.	24.98	MT
30	Providing two coats of snowcem of approved shed and make over old surface including washing cleaning, and preparing the walls, scaffolding, curing and taxes all complete as per building specification and direction of E/I.	5,181.59	M ²
31	Carriage of Cement 20 km lead	294.69	MT
32	Carriage of sand 5 km	1,207.06	M ³
33	Carriage of chips 27km	82.17	M ³
34	Providing weep holes with dry graded stone filter of 20 mm MT 40 mm size in abutment and wing wall as per specification and direction of E/I.	225	each
35	Providing weep holes in Brick masonry/Plain/ Reinforced concrete abutment, wing wall/ return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing force all complete as per specification and direction of E/I.	220	each
36	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre open able length (total length 90 m), having 50 nos rounds per 6 metre length, up to 3 m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips MT retain horizontal, including necessary bolts or G.I. barbed wire tied MT angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	3,827	M
37	Supply of barbed wire of 4 point, 2 ply,12 SWG,150 mm size apart for fencing as per specification and direction of E/I.(10 % C.P + 5 % OHC)	7,654.00	KG
38	Carriage of stone metal 8 km lead	90.79	M ³
39	Carriage of stone boulder 8 km lead	994.41	M ³
40	Carriage of Steel 20 km lead	35.7	MT
41	Supply of M.S angle 90 X 90 X 8 mm size	24.98	MT
42	Brick 15km	621.254	Thousand

(Signature & Seal of Bidder)

TENUGHAT VIDYUT NIGAM LIMITED
HINOO, DORANDA, RANCHI-834002.

BILL OF QUANTITY

PART – II (PRICE PART)

NIT No. 044/CIVIL/W/TVNL/RAN/2016-17

Sub: Construction of left over colony boundary wall and provision of fencing with concertina coil in surrounding area with gate at various location of colony at TTPS Lalpania.

Sl.No	Item of work	Quantity	unit	Rate(Rs.)	Amount(Rs.)
1	Earth work in excavation on foundation trenches in ordinary soil (vide classification of soil item -A) and disposal of excavated earth a obtained to a distance up to 50M including all lifts with leaving ramming the foundation trenches removing roots of trees shrubs all complete as per approved design and per building specification and direction of E/I. (i) ordinary soil (vide classification of soil item -A)	845.21	M ³		
2	(ii) Extra for each earth work in hard soil as per specification and direction of E/I.(Vide classification of soil item B)	281.74	M ³		
3	Earth work in marshy, slushy and daldal	140.87	M ³		
4	Ordinary rock or soft rock (item C)	422.6	M ³		
5	Hard rock (item D)	140.87	M ³		
6	Earth filling in foundation trenches and plinth in layers not exceeding 150mm thick will watered rammed fully completed and fine dressed with earth obtained from excavation of foundation trenches with a lead of 50mm and lift of 1.5M all complete as per building specification and direction of E/I.(mode of measurement compacted volume)	469.56	M ³		
7	Providing coarse cleaning sand in filling foundation trenches or in plinth including ramming and watering in layers not exceeding 150mm thick with all leads and lifts including cost of all materials labours royalty and taxes all complete as per building specification and direction of E/I.(Mode of measurement compacted volume.)	75.21	M ³		
8	Providing designation 75B one brick flat soiling joints filled with local sand including cost of watering taxes royalty all complete as per building specification of E/I.	1,002.80	M ²		

9	Providing PCC/RCC M100 with nominal mix of (1:3:6) in foundation and plinth with approved quality of stone metal grade-III(50mm to 25mm size) clean coarse sand of FM 2.5 to 3 including screening shuttering mixing cement concrete in cement mixer and placing in position vibrating striking curing taxes and royalty all complete job as per building specification and direction of E/I.	145.26	M ³		
10	Providing designation 75A brick work in CM (1:6) in foundation and plinth with approved quality of clean coarse sand of FM-2 to 2.5 including providing 10mm thick mortar joints cost of screening materials ranking out joints to 15mm depth curing taxes and royalty all complete as per building specification and direction of E/I.	778.8	M ³		
11	Providing designation 75A brick work in CM (1:6) in super structure with approved quality of clean coarse sand of FM-2 to 2.5 including providing 10mm thick mortar joints cost of screening materials ranking out joints to 15mm depth curing taxes and royalty all complete as per building specification and direction of E/I.	674.69	M ³		
12	Providing random rubble stone masonry in CM(1:6) in foundation and plinth with hammer dressed stone of less than 0.03 cube meter in volume and clean coarse sand of FM 2 to 2.5 including cost of screening ranking out joints to 20mm depth curing taxes and royalty all complete as per building specification and direction of E/I.	342	M ³		
13	Providing random rubble stone masonry in CM(1:6) in super structure including cost of screening of materials scaffolding ranking out joints to 20mm depth curing taxes and royalty all complete as per building specification and direction of E/I.	652.41	M ³		
14	Providing PCC/RCC M-150 with nominal mix of (1:2:4) in foundation and plinth with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M 2.5 to 3 including screening shuttering mixing cement concrete in cement mixer and placing in position vibration striking curing tax and royalty all complete job as per building specification and direction of E/I	24.09	M ³		

15	Providing RCC M-150 with nominal mix of (1:2:4) in foundation and plinth with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of F.M 2.5 to 3 including screening shuttering mixing cement concrete in cement mixer and placing in position vibration striking curing tax and royalty all complete job as per building specification and direction of E/I	27.86	M ³		
16	Providing RCC M-150 with nominal mix f (1:2:4) in columns with approved quality of stone chips 20mm to 6mm to size graded and clean coarse sand of FM 2.5 to 3 including screening shuttering mixing cement concrete in cement mixer and placing in position vibration vibrating striking curing tax and royalty all complete job as per building specification and direction of E/I.	10.56	M ³		
17	Providing R.C.C M-150 with nominal mix of (1:2:4) in beam of all types with approved quality of stone chips 20mm to 6mm size graded and clean coarse sand of FM 2.5 to 3 including shuttering mixing cement concrete in cement mixer and placing in position vibration vibrating striking curing (but excluding reinforcement) taxes and royalty all complete job as per building specification and direction of E/I	4.69	M ³		
18	Extra for cantering and shuttering in RCC work of beam stiffener and column foundation and plinth (having similar design and specification as for such work in superstructure)as per specification and direction of E/I.	4.69	M ³		
19	Extra for cantering and shuttering in RCC work of column foundation and plinth (having similar design and specification as for such work in superstructure)as per specification and direction of E/I.	38.42	M ³		
20	Providing cement flush pointing (1:3) with clean coarse sand of FM 1.5 including screening curing with all leads and lifts of water scaffolding taxes and royalty as per building and direction of E/I.	1,406	M ³		
21	Providing 12mm thick cement plaster (1:6) including curing carriage of water with all leads and lifts as per building specification and direction of E/I.	5,181.59	M ³		
22	Providing Tor steel reinforcement 8mm,10 mm,12 mm & 16 mm dia bars as per approved design and drawing excluding carriage of M.S roads (straight or in coils) to work site cutting bending of rust placing the rods in position all complete as per direction				

	of E/I.				
22.1	8 mm (TMT coil Fe 500) (Only valid for SAIL & TATA Steel)	0.48	MT		
22.2	10 mm (TMT coil Fe 500) (Only valid for SAIL & TATA Steel)	1.02	MT		
22.3	12 mm (TMT coil Fe 500) (Only valid for SAIL & TATA Steel)	1.31	MT		
22.4	16 mm (TMT coil Fe 500) (Only valid for SAIL & TATA Steel)	0.26	MT		
23	S/F/F Steel gate with M.S. channel 80 x 80 x 10 ,M.S. square bar of 20 mm size, with both side partial M.S. Plate, roller rail, hinge etc. all complete as per building specification and direction of E/I.	9,618.20	KG		
24	Providing two coats of painting with ready mix paint of approved shade and make over steel surface including cleaning the surface thoroughly cost of scaffolding and taxes all complete as per direction of E/I.	60.9	M ²		
25	Labour for fitting and fixing barbed wire fencing in four rows horizontal up MT a height of 1.85M and two diagonals including fixing of post in cement concrete at 2.5m centres including cost of staples (but excluding the cost of cement concrete angle iron post its cutting and making holes nuts and bolts) all complete as per direction of E/I.	3,827	M		
26	Drilling 6mm dia hole M.S angle iron for fixing of staples etc as per building specification and direction of E/I.	10,280	each		
27	Labour for cutting of M.S angle iron post MT required length one end spitted as fishtailed in a length of 150mm complete as per building specification and direction of E/I.	1,285	each		
28	Supplying fitting and fixing straining bolts with nuts size 2.5cm x 10mm dia MT tighten the barbed wire corner post complete as per building specification and direction of E/I.	640	each		
29	Labour for fabricating, erection, hoisting and fixing in position structural steel work in R.S joist channel angle Tee plate lattice member built up compound section in column girder staircase or truss including cost of gusset plate at all height and depths bolting welding (marching wherever necessary) with applying a priming cost of red lead paint all complete as per approved drawing building specification and direction of E/I.	24.98	MT		

30	Providing two coats of snowcem of approved shed and make over old surface including washing cleaning, and preparing the walls, scaffolding, curing and taxes all complete as per building specification and direction of E/I.	5,181.59	M ²		
31	Carriage of Cement 20 km lead	294.69	MT		
32	Carriage of sand 5 km	1,207.06	M3		
33	Carriage of chips 27km	82.17	M3		
34	Providing weep holes with dry graded stone filter of 20 mm MT 40 mm size in abutment and wing wall as per specification and direction of E/I.	225	each		
35	Providing weep holes in Brick masonry/Plain/ Reinforced concrete abutment, wing wall/ return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing force all complete as per specification and direction of E/I.	220	each		
36	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre open able length (total length 90 m), having 50 nos rounds per 6 metre length, up to 3 m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips MT retain horizontal, including necessary bolts or G.I. barbed wire tied MT angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	3,827	M		
37	Supply of barbed wire of 4 point, 2 ply,12 SWG,150 mm size apart for fencing as per specification and direction of E/I.(10 % C.P + 5 % OHC)	7,654.00	KG		
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40	Carriage of Steel 20 km lead	35.7	MT		
41	Supply of M.S angle 90 X 90 X 8 mm size	24.98	MT		
42	Brick 15km	621.254	Thousand		

1. Total quoted cost will be the criteria for defining L₁ bidder
2. Service tax will be paid extra as applicable.

(Signature & Seal of Bidder)