Sealed quotation / tender are invited in the office of D.G.M(T) O&M (North), Room No.- 102, 220kV S/Stn. Peera Garhi, A-1 Block, Paschim Vihar, Near Milansaar Appartments, Opp. A-1/266, New Delhi-110063 from the experienced companies/contractors in relevant business for the following works:-

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Quotation/Tender Enquiry No.</th>
<th>Name of Work</th>
<th>Estimated Cost (in Rs)</th>
<th>Earnest Money Deposit (EMD) (Rs)</th>
<th>Quotation/Tender Fee (Rs)</th>
<th>Work Completion period</th>
<th>Scheduled Date/Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Enquiry No. F.DTL/206/2019-20/ M (T)O&amp;M N-5/ Q-15/ 144 Dt:04.11.19</td>
<td>Repairing/Strengthening of rusted/damaged stubs/leg of tower no.-59 (NH-1 crossing) at 220kV D/C Narela-Mandola lines.</td>
<td>----</td>
<td>Rs.1000/-</td>
<td>Rs.590/- per document (Non-Refundable) Including GST</td>
<td>One Month</td>
<td><strong>START OF SALE OF QUOTATION/TENDER</strong> 05.11.19 at 10:00 HRS.</td>
</tr>
</tbody>
</table>

The quotation form & other documents can be obtained from the office of Manager(T) O & M N-5, 220KV Sub-Station Narela Delhi-110040 .after furnishing a request & requisite amount of fee Rs.590/- non-refundable in the form of Bank Draft / Demand Draft / Pay Order in favour of DELHI TRANSCO LIMITED; payable at Delhi. In case the enquiry document is downloaded from the website then the enquiry document fee should be enclosed with offer by clearly specifying the same on the face of offer envelop. The request for purchasing of quotation document should be made on original letter head of the party and should contain the signature along with seal/stamp of contractor showing his competency as partnership, proprietorship, authorized signatory etc. In case the request is to issue the quotation document to the bearer of the application then the request should contain clearly the name of the bearer and attested/authenticated signature of the bearer of the application.

Contd.2/-
These things should also be clarified while submitting offer and other documents with the offer. In case of any difference in the address in the documents submitted by the contractor then that should also be clarified properly. The quotation will be submitted & opened at Office of D.G.M(T) O&M (North), Room No.- 102, 220kV S/Stn. Peera Garhi, A-1 Block, Paschim Vihar, Near Milansaar Appartments, Opp. A-1/266, New Delhi- 110063. Complete documents can also be downloaded from the website of DTL http://www.dtl.gov.in.

**NOTE:**

1. In case the enquiry document is downloaded from the web site then the enquiry document fee should be enclosed with offer, clearly specifying the same on the face of offer envelop.

2. **The face of the envelope of quotation/enquiry must have following details, failing which the Quotation shall not be opened/considered & liable to be rejected.**
   a) Name of work/supply.
   b) Enquiry No. / Tender No. with Date.
   c) Date of opening.
   d) Details of Earnest money & Quotation/Enquiry document fee, DD/FDR/Pay Order No. with Date and Amount., Name of Bank & Branch.
   e) Name and address of the party.
   f) Registration No., if any.
   g) Validity period of quotation must be 120 days from the date of opening.

3. Incomplete quotations are liable to be rejected. Offer must be signed by the contractor with rubber stamp.

4. Rates quoted should be inclusive of all taxes & duties etc.

Other terms and conditions as per **Annexure -‘A’,‘B’ & ‘X’** shall also be applicable.

Manager (T) O&M, N-5
Enquiry No.: F.DTL/206/2019-20/M (T) O&M-N-5/Q-15/144

Dated: 04.11.19

Cost of document Rs.590/-

Date of Opening: 19.11.19

Subject: Repairing/ Strengthening of rusted/ damaged stubs/leg of tower no.- 59 (NH-1 crossing) at 220kV D/C Narela-Mandola lines.

It is requested to quote the rates in the following format with terms and conditions mentioned hereunder and as per Annexure-“A” & “B” enclosed herewith in the sealed envelope:-

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>DESCRIPTION</th>
<th>QTY. (in Unit)</th>
<th>Unit Rate (in Rs.)</th>
<th>Applicable GST Rate</th>
<th>AMOUNT (in Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>REPAIRING OF TOWER LEGS/ STUBS</td>
<td>03 No.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2</td>
<td>GANG FOR CLEANING OF TOWER BASE</td>
<td>01 No.</td>
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<tr>
<td></td>
<td>TOTAL (Exclusive of all taxes &amp; duties)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Add GST Amount (in Rs.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>GRAND TOTAL (Inclusive of all taxes &amp; duties)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE:

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   e) Name and address of the party.
   f) Registration No., if any.
   g) Validity period of quotation must be 120 days from the date of opening.
3. Incomplete quotations are liable to be rejected. Offer must be signed by the contractor with rubber stamp.
4. Rates quoted should be inclusive of all taxes & duties etc.

Other terms and conditions as per Annexure -‘A’, ‘B’&’X’ shall also be applicable.

Manager (T) O&M N-5,
The contractor shall strictly follow the terms and conditions given hereunder for the works:

1. **SCOPE OF WORK:** Contractor will satisfy himself with the details of the work / supply to be executed and if considered necessary they should visit the site (**220KV S/Stn Narela**) on any working day and get any other information required in this connection.

2. **T&P:** The contractor shall use his own Skilled / Unskilled Manpower, T&P and any other petty material / equipments required for the execution/completion of work unless specified.

3. **SAFETY:** The contractor shall make all the arrangements for the safety of his staff. The D.T.L. shall not be responsible in any way for injury/disablement, accident to any workman on this account and will be free from any legal bindings in this regard. D.T.L. will not be responsible to pay any damage to the workman of the contractor or any outside agencies.

4. The contractor shall make all payments and other contributions, if any, which may have to be made in regard to the workman under any statute or rules or regulations. The D.T.L. shall not be responsible for those payments.

5. The contractor will undertake to indemnity D.T.L. against liabilities or damages by way of compensation arising from any accidents to the person or property or any other person employed or otherwise during the progress of the contract and the D.T.L. shall not entertain any claim in this respect.

6. The contractor shall be solely responsible and shall ensure due compliance with all the legal requirement concerning the workman employed by him under the provisions of applicable labour and other legislations. In the event of the contractor committing any fault resulting in D.T.L. being required to insure any liability or expenses or D.T.L. being required to any notice/summons in this respect the same shall be entitled to recover from the contractor liability attached to it due to any proceedings.

7. The contractor shall accept all risks of stoppage of hindrances to his work by outside interferences. Contractor shall take necessary steps to ensure that all the electrical installations of the D.T.L. and other services like water connections pipe lines, sewer pipelines, open drains, telephone cables, etc. are not damaged by his workers in any way. Contractor will be responsible for all such damages and shall have to repair of failing which he has to pay entire cost of damages. In case of damages to D.T.L., property/material contractor has to pay replacement cost.

8. Before carrying out the work, it shall be entire responsibility of the contractor to take all the safety precautions and shut downs etc. if required during the execution of work. All shut downs will be taken by D.T.L. supervisory staff but contractor’s representative will given request in writing. The work has to be carried out according to the specifications given, where not, according to the satisfaction of D.T.L. representatives. The quantity of work can vary up to plus/minus 25% depending upon the requirement at the discretion of the D.T.L. In the event of any obstruction at site, change in scheme, or due to any reasons the contract can be cancelled for the balance quantity of the unexecuted work. The work can also be suspended temporarily due to any reasons and for such period, extension will be given by Manager (T) if required on the written request of the contractor.

9. **PAYMENT:** The payment shall be processed within one month of receipt of bills from the contractor after the completion of the work as mentioned in the NIQ. The payment shall be sanctioned after verification is made as per rules of the D.T.L. However, any specific clause of payment quoted by the contractor for doing work, the penalty on D.T.L. account for loss to the Contractor will not be entertained. In case the work done by the contractor is not measured, no payment shall be made till the same is made according to the specifications.

10. **PENALTY:** A token penalty of 1% per week of period of delay subject to maximum of 10% of the unexecuted portion of the contract would be levied in case of delay in execution of the work beyond the stipulated completion period or extension if any, granted to them by the DELHI TRANSCO LIMITED. Force Major Clause Condition. This penalty amount will be deducted from the penalty delayed by Strikes, fire accidents or any other case, beyond the control of the contractor, a reasonable extension would be granted, subject to satisfactory proof furnished in time and accepted by the DELHI TRANSCO LIMITED.

11. The contractor shall execute the work on working days during the working hours. However, if required, the work can be executed on holidays/Sundays; under special circumstances, without any extra remuneration.

12. The contractor shall not without any consent of this Deptt. design or sublet the whole or part of the contract.

13. The contractor shall make his own arrangements for drinking water and other facilities for his labour/staff.

14. No idle charges shall be payable by the department.
15. ARBITRATION: - If the disputed question or controversy the settlement of which is not herein specially provided for shall at any time arise between the D.T.L. and the supplier/contractor relating to this order or the portion of the same or the right or duties or liabilities of either party then in every such case, the matter in dispute shall be referred to the Arbitration of the G.M. or his nominee and the decision of the G.M. shall be final and time to time shall be apply to such arbitration proceedings. Arbitration proceedings shall be held at Delhi and only Delhi Courts will have to payable by the D.T.L. to the contractor or vice-versa shall be withheld on account of such proceedings unless arbitration proceedings.

16. The work shall be started within one week from the date of notice either through telegram, through special messenger or telephonically. The work shall be carried out under guidance / instructions of site incharge and shall be approved by A. M. (T) Narela.

17. Contractor shall be required to strictly adhere to the safety regulations and electrical regulations/act.

18. This office reserves the right to get the work executed from the departmental shall or any outside agency at contractors cost and risk if work is not completed with in the stipulated period without any valid reasons.

19. In case of transportation works contract shall strictly observe the regulations as laid down by Traffic Police, any damage to D.T.L. property/material during the course of transportation shall be recovered from the contractor’s bill.

20. PAYMENT: - Payment shall be made as per DTL norms through ECS after receipt and approval of materials & submission of bill by the party.

21. SECURITY: The successful tenderer shall have to deposit the security at @ 5% of the total Ex-works price for the proper performance of the contract within ten days of receipt of purchase order failing which a penalty @ 0.05% per week subject to maximum of 2 % shall be imposed. The security amount shall be refunded after successful and satisfactory completion of guarantee period

22. Contractor will make his own arrangement for watch and ward of material issued to him till material is erected and handed over. In case of any theft/damage to D.T.L., material entire cost of such material will be recovered from the contractor.

23. Mandatory deductions towards Income tax, work contract act. 1999 and any other applicable deductions as per the provision made shall also be deducted by the payees department of DELHI TRANSCO LIMITED.

24. The stipulated completion period has been given in good faith. However, the contractor has to complete the work in minimum possible time by providing parallel gangs as per site requirements on the direction of Engineer in charge at site, otherwise poor performance may be recorded.

25. Quantity may vary - + (plus or minus) 25%.

26 INTEREST & REFUND OF EMD: No interest is payable by DTL on the amount of Earnest Money deposited by the Tenderers/Contractor. Earnest Money is held by DTL till obligations are satisfactorily and completely discharged by the Tenderer/Contractor. The amount of the Earnest Money shall be refunded to the unsuccessful bidders immediately after decision taken by the authority competent to accept the tenders.

27 DTL reserves the right to reject the offer/offers without assigning any reason.

Manager (T) 220KV O&M-N-5

Signature of the contractor with stamp
DELHI TRANSCO LIMITED

ANNEXURE’B’

1. The DTL reserves the right to accept or reject any offer in whole or part without assigning any reason.

2. The rates should be quoted based on the units specified in words as well as in figures without any cutting, in case of difference of values/rates in figures and words or any confusion it will be constituted to take the rates, which are lowest.

3. The rates should be firm in all respects.

4. The rates quoted should be valid for 120 days from the date of opening of quotations/tenders except during negotiation if required.

5. Earnest money @ 2% of the total value of the works, is specified shall be deposited along with tender/quotation by DD/FDR/Pay Order of any scheduled bank of Delhi in favour of DTL. The same shall be refunded without interest after decision of the case, without earnest money offer will not be opened. In the event of the offer if accepted, it can be adjusted towards the security deposit amount.

6. Security Deposit: Apart from earnest money the successful party will have to deposit security through demand draft/FDR at the rate specified under clause 21 of Annexure-A for due performance of the contract.
   The successful tenderer shall have to deposit the security at @ 5% of the total contract value within 10 days of receipt of Order failing which penalty @ .05% per week up to maximum 1% of total contract value shall be levied. Failure to deposit the security deposit money on the part of the contractor within the said period shall amount to backing out of the offer entitling the earnest money to be forfeited out right.
   No interest will be payable on the above amount and on security deposit. Any damage caused to the material/tools of the undertaking will be recovered from the security deposit/earnest money or other running bills. Safety of DTL material & property handed over to the contractor will be responsibility of the contractor.

7. In case of opening day is holiday/closed day, opening date may be treated as the next working day or can be postponed by the officer opening authority.

8. Incomplete tender/quotations will be rejected summarily.

9. Qualification Requirement: Bidder should submit the satisfactory completion report of “Similar Maintenance Works/ Supply” executed in DTL or other Govt./State transmission utility. Similar work means “Service work in EHV Sub-Station” in DTL/STU during last 07 years with satisfactory performance report. Offer submitted without satisfactory completion report shall not be considered / liable to be rejected.

10. Following document should be submitted along with the offer, failing which offer is liable to be rejected.
    b). Self attested Copy of GST Registration certificate.

11. Successful contractor whose offer is accepted will be required to execute an agreement on a stamp paper of Rs.100/- within Ten days of the receipt of the written orders failing which penalty @ .05% per week up to maximum 2% of total contract value shall be levied. The agreement paper to be furnished by successful contractor and he will not be paid for such paper. (in case of work only)

12. DTL reserves the right of dividing the work. Order can be split on more than one party.

SIGNATURE OF THE CONTRACTOR WITH STAMP

Manager (T) 220KV O&M-N 5
1. The scope of work include breaking of chimney of size of 450x450 mm or more at least 700 mm below ground level and 300 mm above ground level of tower locations in 400/220 kV D/C tower lines. Proper cleaning of stub with hardwire brush to remove complete concrete from the surface at stub, removing rust, wild vegetation around stub/leg (if any) etc., fixing additional galvanized angle size equivalent to existing stub/leg and flat etc. with first class electric welding in length as per drawing and then painting of welded portion with zinc rich primer as specified by owner & then making chimney of proper size with M 20 Grade Cement concrete with proper curing for minimum 10 days & all other associated works to satisfactorily complete the job including cost of all material, nuts & bolts, labour, welding sets, generator and T&P etc but excluding cost of MS angle and which shall be provided by owner.

2. Removal of rust from old reinforcement from all round the surface along the length of reinforcement, using hand tools like chisels, hammers, wire brushes, abrading cloth/paper, etc. This shall be continued manually along the length of the rusted reinforcement till such time that the steel surface is cleared of all rust that could be removed manually.

3. To ensure proper bonding between old and new concrete the old exposed concrete surface be spalled and loose concrete be removed and the good surface of concrete shall be hacked and roughened for receiving the repair. Clean exposed concrete surface shall be free from lightly sticking materials including foreign materials. Apply cement slurry before laying fresh concrete.

4. If the deterioration is found to be above stub –top welding of plate pieces shall be resorted to without bolt opening of disturbing the existing joints the heel of the inside cleat shall be girded and outside plates shall be made face to face at corner for a single welding.

5. Contractor is required to mobilize a suitable arrangement to carry out the work in locations identified by the Owner.

6. The contractor shall make all the arrangement for dewatering at site if the site requirement warrants to complete the job in all respect.

7. In the event of storm or stoppage of work etc., Contractor shall not be paid extra for mobilization/remobilization of labour, tools and plant/ equipment, etc.

8. Contractor shall fully satisfy himself about the conditions prevailing in the area of proposed work and plan the necessary tools and plant to be deployed before quoting. Any claim resulting from lack of data collection in this respect shall not be entertained.

9. Contractor shall arrange for necessary transportation on surface/water to facilitate the supervision of work by officials of Owner at its own cost.

10. Full details of the construction plant, proposed working method shall be submitted along with the Tender.

11. All quantities given in the specification are tentative and subject to change. Payment shall be made at quoted rates for actual quantities of work executed as approved by the Owner.

Concreting Strengthening of stubs includes supply of materials such as bolts and nuts along with spring & flat washers, cement, sand, coarse aggregate and reinforcement steel etc. Properties of Concrete

1. The cement concrete used for the foundations shall be of grade M-20 for chimney portion.

(a) The Portland Cement used in concrete shall conform to 33 grade (IS:269) or 43 grade (IS:8112) or 53 grade (IS:12269).

(b) The Puzzolena Cement used in concrete shall conform to IS:1489. The curing time of Puzzolena cement will be decided at the time of execution of the work under the contract based on the certificate from a reputed laboratory which will be obtained and submitted by the Contractor.

2. Concrete aggregates shall conform to IS: 383.

3. Construction water shall confirm to IS456.

4. Reinforcement shall be Thermo-Mechanically Treated bars or High strength deformed steel bars conforming to IS 1786 with Fe 415 Grade.

Manager (T) 220KV O&M-N 5
Unit Rates and Measurement
1. The Bidder is required to quote the unit rates keeping in view all activity namely including excavation for different types of soil, concreting, and placement of reinforcement and stub setting in the relevant Price Schedule.
2. The unit rates shall include excavation along with all associated activities like shoring, shuttering, dewatering till completion of work dressing, back filling of soil after concreting with excavated/borrowed earth (irrespective of lead) and consolidation of earth, carriage of surplus earth to the suitable point of disposal as required by the Owner or any other activity related to completion of foundation work.
3. Form boxes shall be used for casting of foundations. The unit rate of concreting shall include the cost of supply, fabrication and placement of form boxes, cement, water, coarse and fine aggregates, mixing and placing concrete, curing of concrete and any other activities related to completion of concreting work of foundation. The payment for this item shall be made as per the actual volumes of concreting but limited to design volume based on unit rates for items indicated in letter of award.
4. The unit rate of reinforcement steel placement shall include supply and placement of reinforcement steel, stirrups, wire for binding the reinforcement chairs, bolsters and spacers etc. as required to complete the foundation work. The measurement of steel for payment shall be made on the calculation based on the calculated weight of reinforcement steel as per relevant Indian Standard actually used in Tonnes corrected to third place of decimals as calculated weight of steel as design / working drawing whichever is less. No allowance will be made for wastage.

Excavation
1. Excavation work to be started as per direction of engineer incharge.
2. Except as specifically otherwise provided, all excavation for footings shall be made to the lines and grades of the foundations. For estimation purposes, the excavation wall shall be vertical and the pit dimensions shall be based on an assumed clearance of 150 mm on all sides of the foundation pad. For footings without undercut, this clearance will actually be established in practice for facilitating work. For footings with undercut, no such clearance will be allowed. All excavation shall be protected so as to maintain a clean subgrade and provide worker safety until the footing is placed, using timbering, shoring, dewatering etc. as approved by Owner. Contractor shall especially avoid disturbing the bearing surface of the pad. Any sand, mud, silt or other undesirable materials which may accumulate in the excavated pit or borehole shall be removed by Contractor before placing concrete.
3. The soil to be excavated for tower foundations shall be classified as follows depending on the physical state of the soil at the time of excavation irrespective of the type of foundations.
a) Normal Dry Soil
Soil removable by means of a spade and shovel. Excavation done in dry soil for wet, partially submerged, fully submerged and wet black cotton type of foundations shall also be covered under this.
b) Wet Soil
Where the subsoil water table is encountered within the range of foundation depth or/and where pumping or bailing out of water is required due to presence of surface water shall be treated as wet soil. The portion of soil below the level of subsoil water table upto the foundation depth shall only be treated as wet soil. The excavation done in wet soil for partially submerged, fully submerged and black cotton type of foundation shall also be covered under this.
c) Dry Fissured Rock
Limestone, laterite, hard conglomerate or other soft or fissured rock which can be quarried or split with crow bars, wedges or pickaxes. However, if required, light blasting may be resorted to for loosening the material, but this will not in any way entitle the material to be classified as hard rock.
d) Wet Fissured Rock
Above fissured rock, when encountered with sub soil water within the range of foundation depth or land where pumping or bailing out of water is required, shall be treated as wet fissured rock.
e) Hard Rock
Any rock excavation, other than specified under fissured rock above, for which blasting, drilling, chiseling are required. The unit rate quoted for hard rock excavation shall be inclusive of all costs for such drilling (including drilling required for anchoring), chiselling and blasting, etc. No extra charge shall be allowed for the removal of fallen earth into a pit or borehole once excavated. Shoring and shuttering/timbering as approved by Owner shall be provided by the Contractor when the soil condition is so bad that there is likelihood of accident due to the falling of earth. Strengthening of Stubs
1. For all towers the Contractor shall submit for approval the proposed schedule for strengthening of stubs.

SIGNATURE OF THE CONTRACTOR WITH STAMP

Manager (T) 220KV O&M-N 5
2. The stubs/leg shall be Strengthened correctly and precisely in accordance with approved method at the exact location, alignment and levels. Strengthening of stubs shall be done in the presence of Owner’s representative for which adequate advance intimation shall be given to Owner by Contractor.

**Mixing, Placing and Compacting of Concrete**

1. The Concrete shall be mixed in the mechanical mixer. However, in case of difficult terrain, hand mixing may be permitted at the discretion of Owner. The water for mixing concrete shall be as per IS 456.
2. Mixing shall be continued until there is uniform distribution of material and the mix is uniform in colour and consistency, but in no case the mixing be carried out for less than two minutes. Normal mixing shall be done close to the foundation, but exceptionally the concrete may be mixed at the nearest convenient place. The concrete shall be transported from the place of mixing to the place of final deposit as rapidly as practicable by methods which shall prevent the segregation or loss of any ingredient. The concrete shall be placed and compacted before setting commences.

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3. Form boxes shall be used for casting all types of foundations except at an undercut interface for which the adjoining subsurface material shall provide adequate support.
4. The concrete shall be laid down in 150 mm layers and consolidated well so that the cement cream works, up to the top and no honey-combing occurs in the concrete. A mechanical vibrator shall be employed for compacting the concrete. However, in case of difficult, terrain, manual compaction may be permitted at the discretion of the Owner. Monolithic casting of foundations must be carried out. However, in case of unavoidable circumstances, a key construction joint can be provided at the chimney-paid interface subject to approval of the Owner. After concreting the chimney portion to the required height, the top surface should be finished smooth with a slight slope towards the outer edge for draining rain water. However, nothing extra shall be paid to the Contractor for providing such construction joint.
5. Wet locations shall be kept completely dewatered, both during and 24 hours after placing the concrete, without disturbance of the concrete.
6. If the concrete surface is found to be defective after the form work has been removed, the damage shall be repaired with a rich cement sand mortar to the satisfaction of the Owner before the foundation is back filled.

**Backfilling**

1. After opening of form work and removal of shoring, timbering, etc., backfilling shall be started after repairs, if any, to the foundation concrete. Backfilling shall normally be done with the excavated soil, unless it is a clay type or it consists of large boulders/stones, in which case the boulders shall be broken to a maximum size of 80 mm. After locations where borrowed earth is required for backfilling, Contractor shall bear the cost, irrespective of lead.
2. The backfilling materials shall be clean and free from organic or other foreign materials. A clay type soil with a grain size distribution of 50% or more passing the # 200 sieve as well as a black cotton soil are unacceptable for backfilling. The earth shall be deposited in maximum 200 mm layers, leveled, wetted if necessary and compacted properly before another layer is deposited.
3. The backfilling and grading shall be carried to an elevation of about 75 mm above the finished ground level to drain out water. After backfilling 50 mm high, earthen embankment (band) will be made along the sides of excavation pits and sufficient water will be poured in the backfilling earth for at least 24 hours. After the pits have been backfilled to full depth, the stub template/props, as the case may be, can be removed.

**Curing**

1. The concrete shall be cured by maintaining the concrete wet for a period of at least 10 days after placing. Once the concrete has set for 24 hours, the pit may be backfilled with selected moistened soil and well consolidated in layers not exceeding 200 mm thickness and thereafter both the backfill earth and exposed chimney shall be kept wet for the remainder of the prescribed 10 days. The exposed concrete chimney shall also be kept wet by wrapping empty cement bags around it and wetting the bags continuously during the critical 10 days period.

**Protection of Tower Footing**

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1. The work shall include all necessary stone revetments, concreting and earth filling above ground level, the clearing from site of all surplus excavated soil, special measures for protection of foundation close to or in nalis, river bed undulated terrain, etc., including suitable revetment or galvanized wire netting and meshing packed with boulders. The top cover of stone revetment shall be sealed with M-20 Grade concrete. Contractor shall recommend protection at such locations wherever required. Details of protection of tower footing will be as per drawing provided by O&M – I department.

SIGNATURE OF THE CONTRACTOR WITH STAMP

Manager (T) 220KV O&M-N 5
2. Tower footings shall generally be backfilled using soil excavated at site unless deemed unsuitable for backfilling. In the latter case, backfilling, leveling of earth shall be done with borrowed earth of suitable quality irrespective of lead.

3. The provisional quantities for stub strengthening work are furnished in Schedule of Quantities as well as in Price Schedule.

SIGNATURE OF THE CONTRACTOR WITH STAMP

Manager (T) 220KV O&M-N 5