

POWER TRANSMISSION CORPORATION OF UTTARAKHAND LTD.
(A Govt. of Uttarakhand Enterprise)
CHIEF ENGINEER, OPERATION & MAINTENANCE
GARHWAL ZONE, PTCUL
26 - CIVIL LINES, ROORKEE - 247667

E- Tender for “Providing revetment/retaining wall at Tower Location No. 225, 225(a) and 226 near Radkhi (Simli) of 132KV Srinagar-Simli Transmission Line”.

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M/s / Shri _____

Sr. No.	DESCRIPTION	
1.	Tender No.	CE/GZR-12/2020-21
2.	Name of Work	“Providing revetment/retaining wall at Tower Location No. 225, 225(a) and 226 near Radkhi (Simli) of 132KV Srinagar-Simli Transmission Line”.
3.	Completion Time	03 Months
4.	Route Length in Kms.	--
5.	Tender issuing office	Office of Chief Engineer (O&M) Garhwal Zone, Power Transmission Corporation of Uttarakhand Ltd. " 26-Civil Lines, Roorkee-247667
6.	Tender Fees	Rs. 1,000.00+ 180.00 (GST @18%) =Rs. 1,180.00 (Non refundable)
7.	EMD/Bid Security	Rs. 50,000.00
8.	Starting date of issue of Bid documents. The tender document is to be downloaded through website- www.uktenders.gov.in against payment of tender fees as above. The non refundable tender fees as specified above should be sent along with the bids as specified in the bid documents.	24.12.2020
9.	Last date of Request of Bid Documents.	As per tender notice / corrigendum if any
10.	Last date of issue of Bid Documents.	As per tender notice / corrigendum if any
11.	Closing Date of receipt of Bid through E-tendering	As per tender notice / corrigendum if any
12.	Address & Place of Submission of Bid supporting documents.	Chief Engineer (O&M), Garhwal Zone, PTCUL, 26-Civil Lines Roorkee-247667.
13.	Date and Time of Opening of Technical Bid	As per tender notice / corrigendum if any
14.	Address & place of Technical bid(Part-1) opening	Chief Engineer (O&M), Garhwal Zone, PTCUL, 26-Civil Lines Roorkee-247667.
15.	Type of Tender	Open Tender
16.	Validity of Bid	180 days after the date of opening of technical bid (Part-I)
17.	Contact & Telephone No. of the Tender issuing office	Phone No.:- 01332-272256 Fax No. : 01332-2722315
18.	E-mail address of the tender issuing office	ce_oandmg@ptcul.org chiefengineergarhwal@gmail.com

CHIEF ENGINEER (O&M) GARHWAL ZONE, ROORKEE

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**POWER TRANSMISSION CORPORATION OF UTTARAKHAND LTD.
OFFICE OF THE CHIEF ENGINEER (OPERATION & MAINTENANCE)
GARHWAL ZONE, 26-CIVIL LINES, ROORKEE
E-TENDER NOTICE**

On line, e-tenders against specification No. CE/GZR-12/2020-21 for Providing
revetment/retaining wall at Tower Location No. 225, 225(a) and 226 near Radkhi (Simli) of
132KV Srinagar-Simli Transmission Line are hereby invited. The last date & time of
submission of offline/online bid is upto 15.00 Hours on 22.01.2021 which shall be opened on
23.01.2021 at 15.00Hrs. Details of E-tender can be obtained from E-tender website
www.uktenders.gov.in (Tender ID: 2020_PTCUX_28388_1) and information of E-tender can
be seen from PTCUL website www.ptcul.org. For any assistance on e-tendering, please
contact on Mobile No. +91-8899890000.

CHIEF ENGINEER (O&M)

“SAVE ELECTRICITY IN THE INTEREST OF NATION”

Pre Qualifying Criteria

(A) Technical Qualifying Requirement

1. The bidder should have successfully completed similar nature of work i.e. "Construction of Revetment/ Retaining wall in hilly terrain" within last Seven (07) years as on the originally scheduled date of Bid opening.
2. The bidder must comply the Technical Specifications and an undertaking to this effect must be submitted with the bid.

Remark :- Similar completed works against FQR will be as follows :-

The bidder shall have successfully completed similar nature of work i.e. "Construction of Revetment/ Retaining wall in hilly terrain".

(B) Financial Qualifying Requirement

1. Minimum Average Annual Turnover:- The minimum average annual turnover for the preceding best three years (36 months) out of last five financial years should not be less than 24.84 Lakh (Balance sheet/Documentary proof for last five years should be enclosed). The balance sheet and all other financial documents attested/certified by CAs to substantiate fulfilment of FQR should be with UDIN.
2. Experience of having successfully completed similar works during last 7 years lending last day of month previous to the one in which applications are invited should be either of the following;
 - (a) Three similar completed works costing not less than the amount equal to Rs. 6.62 Lakh.
 - OR
 - (b) Two similar completed works costing not less than the amount equal to Rs. 8.28 Lakh.
 - OR
 - (c) One similar completed work costing not less than the amount equal to Rs. 13.25 Lakh.
3. The bidder has to submit the latest Balance sheet and CA Certificate (along with the UDIN No.) for the Net Worth at the time of bidding.
4. Experience certificate should be issued by an officer not below the rank of Executive Engineer mentioning nature of work, Agreement No., Amount of work, Scheduled time of completion of work and Actual time of completion etc. Completion certificate from officer shall be enclosed by contractor.

(C) Additional Documents

1. Copy of PAN No. of the firm/Company or PAN No. of all its partner's in case of partnership firm or PAN No. of the individual, in case of proprietorship.
2. The Tenderers should have submitted copy of Goods I& Service Tax (GST) Registration.
3. RTGS/NEFT Details of the bidder is to be submitted.
4. Latest Solvency certificate not more than 3 months old issued by bank (20% of bid value) should be submitted.
5. The balance sheet and all other financial documents attested/certified by CA's to substantiate fulfilment of FQR should be with UDIN, failing which the tender will be summarily rejected without any further reference.
6. GST Registration/Issuing authority.
7. Details of Partners/Directors of the Firm/Company.
8. Experience record and details of other works pending/executed for various utilities.
9. Last year audited Accounts.

TECHNICAL SPECIFICATION

1. **Scope of Work** : This specification cover the work of *“Providing Retaining/ Revetment wall at Tower Location No. 225, 225a & 226 near Radkhi village (Simli) of 132 kV Srinagar – Simli Transmission Line”*.
2. **Labour & T&P** : All the Labour and T&P required for proper completion of work shall be arranged by the contractor.
3. **Material** : All Material for construction/ repairing of revetment wall shall be provided by contractor.
4. **Excavation** : Excavation for making the surface smooth for laying bottom CC pad is carried out in such a way that due to excavation of earth there is no damaged done to the tower foundations or the house property of the public inhabited it the area. During the course of excavation normal dry/ wet/ fissured soil, Soft Rock and Hard Rocks may be encountered which may require special tools and tackles and shall be arranged by the contractor.
5. **Foundations** : Foundations must be taken deep enough to rest on sound foundation materials which must be safe from scour, frost and surface water. Rock must be cut in level steps or to a downward slope towards the filling. Rock bed slope should be towards the hill and not away. The necessity of filling foundation pits in front of toe of the retaining wall back upto original ground level so as to avoid pooling of water leading to toe erosion, is to be considered.
6. **Concrete** : For concrete in bottom pad in 1:2:4 ratio for the revetment / retaining wall 40 mm stone ballast or graded shingle free from earthy element mud etc. shall be used. The sand for the concrete shall be coarse sand having fineness module of 2.25. The clean water shall be used free from dirt, acidic or alkaline property. Similarly, for laying top pad in ratio 4:2:1 stone ballast/ graded shingle shall be used which will be free of dust earthy elements and mud.
7. **Walls – Masonry Construction** :
 - The top thickness shall be 0.6 meters. The front batter shall be given as 1 in 3 and the back face is kept vertical.
 - Walls shall be made in random rubble masonry consisting of hammer dressed hard stones brought to course every 0.6 m (approx.). Masonry courses must be normal to face batter and the back of the wall can be left rough. Masonry work should

proceed in an uniform level.

- The least dimension of stone should be 20 x 15 x 10 cm. Approximately half the stones should tail into the wall by twice their height. Stones must break joint by half the height of the course.
- In case of dry rubble walls, it is generally advisable to bed each course in stone dust or earth, to spread the load and increase the frictional resistance between courses, particularly where shale slabs are used.

- 8. Bond Stones** : In RR dry masonry walls, bond stones shall be provided at least one set per 0.5 square meter of wall face. They should overlap each other by atleast 15 cm. Where natural bond stones are not available, precast cement concrete bond stones of 20 x 20 x 60 cm size with nominal reinforcement shall be used.
- 9. Coping** : The coping should consist of large stones, laid and pointed in cement mortar or PCC 50-75 mm thick. The top of the coping should be, weather sloped towards valley side. Coping, preferably should be with stones on edge so that these are not easily dislodged. Parapets with weather slope may be provided on retaining walls in lieu of coping.
- 10. Earth Filling** : The Earth filling/ backfilling layer immediately behind the wall should consist of hand packed stone or some granular material as shown in the drawing. Remainder of the backfill should be rammed in 150 mm thick layers sloping towards the back of the wall. The top layer should better be sealed with bituminous macadam to prevent unnecessary direct seepage of water in the retaining wall increasing thereby the back pressure.
- 11. Drainage** : Provision must be made to prevent water accumulating behind the wall. Adequate staggered weep holes not less than 15 cm x 10 cm should be provided at on meter interval both horizontally and vertically. The inlets of all weep holes shall be surrounded by loose stones. In wet situations a continuous loose stone drain should connect the weep holes. The weep holes should have a slope of 1 in 10 towards valley side. Weep holes are not necessary in dry masonry walls due to open joints though it may be better to provide weep holes.

The complete work shall be carried out as per BOQ.