

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 “Work of shifting of Tower No. RC 94 of 220KV Rishikesh-Chamba Transmission line from landsliding zone to safer location”.

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M/s / Shri _____

Sr. No.	DESCRIPTION	
1.	Tender No.	CE/GZR-08/2021-22
2.	Name of Work	“Work of shifting of Tower No. RC 94 of 220KV Rishikesh-Chamba Transmission line from landsliding zone to safer location”.
3.	Completion Time	06 Months from the date of approval of drawing.
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. 2,000.00+ 360.00 (GST@18%) =Rs. 2,360.00 (Non refundable)
7.	EMD/Bid Security	Rs. 1,00,000.00
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.	31.12.2021
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

पावर ट्रान्समिशन कारपोरेशन ऑफ उत्तराखण्ड लि०
मुख्य अभियन्ता (परिचालन एवं अनुरक्षण) कार्यालय,
गढवाल क्षेत्र, 26- सिविल लाईन्स, रूड़की
ई-निविदा सूचना

पावर ट्रान्समिशन कारपोरेशन ऑफ उत्तराखण्ड लि० द्वारा "Work of shifting of Tower No. RC 94 of 220KV Rishikesh-Chamba Transmission line from landslide zone to safer location" against Tender specification No. CE/GZR-08/2021-22 के तहत ई-निविदाएं आमन्त्रित की जाती हैं। ई-निविदा ऑनलाईन/ऑफ लाईन जमा करने की अन्तिम तिथि 28.01.2022 को समय 15.00 बजे तक हैं, जो दिनांक 29.01.2022 को 15.00 बजे खोली जायेगी। ई-निविदा सम्बन्धित अन्य विस्तृत विवरण ई-निविदा वेबसाईट www.uktenders.gov.in (Tender ID: [2021_PTCUX_41173_1](#)) एवं ई-निविदा सूचना पिटकुल की वेबसाईट www.ptcul.org से प्राप्त की जा सकती हैं। ई-निविदा से सम्बन्धित जानकारी हेतु सम्पर्क करें +91-8899890000.

मुख्य अभियन्ता (परि० एवं अनु०)

“राष्ट्र हित में बिजली बचायें”

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

Power Transmission Corporation of Uttarakhand Ltd. invites e-tender for "Work of shifting of Tower No. RC 94 of 220KV Rishikesh-Chamba Transmission line from landslide zone to safer location" against Tender specification No. CE/GZR-08/2021-22. The last date of submission of online/offline e-tender is 28.01.2022 upto 15.00 Hours which shall be opened on 29.01.2022 at 15.00Hrs. Details of E-tender can be obtained from E-tender website www.uktenders.gov.in (Tender ID: [2021_PTCUX_41173_1](#)) and information of E-tender can be seen from PTCUL website www.ptcul.org. For any assistance on e-tendering, please contact +91-8899890000.

CHIEF ENGINEER (O&M)

“SAVE ELECTRICITY IN THE INTEREST OF NATION”

Scope Of Work:

1. Erection of 220kV Transmission Tower in hilly area.
2. Stringing of 220kV Transmission Tower in hilly area.
3. Dismantling of 220kV Transmission Tower in hilly area
4. De-stringing of dismantling of 220kV Transmission Tower in hilly area.
5. Preparation of land/crop compensation & forest case.
6. Shifting of tower and hardware accessories from Srinagar to working site as per direction of site engineer

1. TECHNICAL-QUALIFYING REQUIREMENTS

1. The bidder should have successfully completed physical construction of 220kV or Higher voltage class double or single circuit transmission line project involving, tower foundation, erection and stringing not less than cumulative line length of 1.0kM as prime contractor or as a partner in a joint venture within last seven(7) years as on the originally scheduled date of bid opening
2. The bidder should have successfully constructed and commissioned the projects of 110/132kV or higher voltage class transmission line with cumulatively line length "0.5" KM in mountainous Terrain within last seven years
3. The Bidder/Collaborator/JV Partner must have executed similar nature of work. Certificate of completion, Agreement no./PO, Amount of work done and schedule time completion versus actual time of completion work, not less the rank of Executive Engineer of similar work should be submitted.
4. The Bidder/Collaborator/JV Partner should have executed successfully the similar work.
5. Copies of Work Orders (as per above criteria) from the Govt. Power Utilities/PSUs/Govt. Organizations/Other Govt. Department for similar work is required to be submitted along with the bid.

MSME rules will be applicable as per Uttarakhand Government. The contractor should submit valid certificate.

FINANCIAL-QUALIFYING REQUIREMENTS

1. **Minimum Average Annual Turnover (MAAT):-** The minimum annual average turnover for the preceding best three years (36 months) out of last five financial years should not be less than **Rs. 74.64 Lacs.** (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 fulfillment of FQR should be with UDIN.
2. For Financial Qualification Criteria, lead partner of JV Firms should meet minimum 50% of Financial Qualification Requirement (FQR) and collectively meet total FQR. All partners of JV Firms should have the experience for activities of construction/ manufacturing of items or equipments/work of items or equipments or products, meant for transmission utilities only.
3. Experience of having successfully completed similar Work's during last 7 years ending last day of month previous to the one in which applications are invited should be either of the following;
 - a) Three similar completed work costing not less than the amount Rs. 19.90 Lac.
 - Or
 - b) Two similar completed work costing not less than the amount Rs. 24.88 Lac.
 - Or
 - c) One similar completed work costing not less than the amount Rs. 39.81 Lac.
4. The bidder have to submit affidavit of all ongoing projects which are not completed and Net worth of the ongoing project which are not completed at the time of bidding. (Not completed project means project in Government, Government undertaking or Private sector also include the LOA/Agreement which are allotted/ executed but Work has not started at the time of bidding)
5. 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.
6. 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.

Additional Documents

- (a) 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.
- (b) The Tenderers should have submitted copy of Goods & Service Tax (GST) Registration.
- (c) The Employee Provident Fund (EPF) Registration Number shall be a mandatory PQR. (Documentary proof of the same shall be enclosed with tender document).
- (d) RTGS/ NEFT Details of the bidder are to be submitted.

- (e)** Latest Solvency certificate not more than 3 months old issued by bank (20% of bid value) should be submitted.
- (f)** The balance sheet and all other financial documents attested/certified by CAs to substantiate fulfillment of FQR should be with UDIN, failing which the tender will be summarily rejected without any further reference.
- (g)** Registration. No. under Shops & Estt. Act/issuing authority.
- (h)** Details of Partners/Directors of the Firm/Company.
- (i)** Experience record and details of orders pending/executed for various utilities.
- (j)** Detail of Manufacturing/Fabrication facilities.
- (k)** Factory Registration/license details.

TECHNICAL SPECIFICATION

- 1. Scope of Work** : The scope of work includes construction of revetment wall including all material, T&P as per drawing with specified ratio/proportion as per BOQ
- 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 lease 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.