

**TENDER FOR “CONDUCTING PRELIMINARY ROUTE SURVEY FOR LAYING 400 KV  
TRANSMISSION LINE FROM PROPOSED PUMPED HYDRO STORAGE POWER  
PROJECT IN ANDHRA PRADESH”**

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**TENDER DOCUMENT**

**REQUEST FOR CONDUCTING PRELIMINARY ROUTE SURVEY FOR LAYING 400 KV  
TRANSMISSION LINE FROM PROPOSED PUMPED HYDRO STORAGE POWER  
PROJECTS IN ANDHRA PRADESH STATE”**

**RFS No : NREDCAP/WE/PSP/TL/2021**

**Dated : 24.11.2021**



**NEW & RENEWABLE ENERGY DEVELOPMENT CORPORATION OF ANDHRA  
PRADESH LIMITED ( NREDCAP)**

**# 12-464/5/1, River Oaks Apartment, CSR Kalyana Mandapam Road, Tadepalli,**

**Guntur(Dist),Pin: 522 501**

**Tel: 0863-2347650/51/52/53, Fax: 0863-2347690**

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**BID INFORMATION SHEET**

Document Description	<b>CONDUCTING PRELIMINARY ROUTE SURVEY FOR LAYING 400 KV TRANSMISSION LINE FROM PROPOSED PUMPED HYDRO STORAGE POWER PROJECT AT 7 (SEVEN) DIFFERENT LOCATIONS IN THE STATE OF ANDHRA PRADESH</b>
RFS No. & Date	RFS No: NREDCAP/WE/PSP/CPRS/2021, Dt24.11.2021
Broad Scope of Work for Bidding	Conducting preliminary route survey for laying 400 KV transmission line from proposed PSP project to APTransco substation and identification of land survey numbers, type of land & owners with 50 mtr. corridor on either side of the transmission line.
Tender Type	Open tender
Bid Document Download Start Date	25.11.2021
Bid closing date	06.12.2021 before 13.00 Hours
Technical Bid Opening date	06.12.2021, 15.00 Hours
Financial Bid Opening date	07.12.2021, 16.00 Hours
Place of Tender Opening	O/o NREDCAP, Tadepalli
Bid validity period	90 days from date of tender.
Contact Officer	VC & Managing Director
Address/E-mail id	NREDCAP 12-464/5/1, River Oaks Apartment, CSR Kalyana Mandapam Road, Tadepalli, Guntur District, Andhra Pradesh – 522 501.
Telephone Nos.	Telephone – 0863 -2347650 /651/652/653

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Bid Security /EMD (INR)	As specified in the Bid document as per the prescribed format, proposals would need to be accompanied by a Demand Draft in Indian Rupees for an amount of <b>Rs. 10,000 per each location towards EMD.</b>
Bid Processing Fee (non-refundable)	Bidder shall pay Bid processing fee of <b>Rupees 5,000/- (Rupees Ten Thousand only) per each location plus applicable GST (18%)</b> by way of Demand draft drawn in favour of NREDCAP, payable at Tadepalli.  No exemption towards processing fees or E-tendering fees is allowed to any type of organizations/ agencies including MSMEs or any Govt. / Semi Govt. / PSUs.
Completion Period	Three months from awarding the tender.
Procedure for bid submission	The sealed bids shall be submitted on or before 13.00 Hours 06 <sup>th</sup> December 2021 to the VC & Managing Director, NREDCAP, 12-464/5/1, River Oaks Apartment, CSR Kalyana Mandapam Road, Tadepalli, Guntur District, Andhra Pradesh – 522 501 and the same will be opened in the chambers of General Manager (EC) / NREDCAP on 06 <sup>th</sup> December 2021 at 15.00 Hours.  The Tender cover shall contain the superscriptions “Conducting preliminary route survey and identification of land ownership for laying 400 KV transmission line from proposed pumped hydro storage power project in Andhra Pradesh”

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**SCOPE OF WORK**

- (A) Taking into consideration the huge Renewable Energy potential existing in Andhra Pradesh, the GoAP has announced various policy initiatives to promote RE power projects to export power to other states. The GoAP has notified the AP Renewable Energy Export Policy 2020 vide G.O. Ms No: 20 dated 17.07.2020 of Energy (Power II) department for large scale promotion of RE Power projects considering availability of huge extents of uncultivable lands in RE potential zones. In order to promote RE Power Projects under the RE Export Policy, shelf of 7 projects have been identified with an estimated potential of 17,800 MW to setup Solar, Wind and Wind – Solar Hybrid Power Projects.
- (B) Though the state of Andhra Pradesh has surplus in power, the expected economic growth of state & the targets set by the state to achieve a net exporter of power by producing clean energy in the next five years, the share of Renewable Energy is expected to increase substantial in the coming years. Pumped Storage hydro-electric projects are the most reliable RE power option available in the current scenario for large-scale energy/power storage systems required for maintaining grid stability.
- (C) 7 Feasibility sites have been identified and proposed for preparation of Feasibility Reports and Detailed Project Reports for promoting Pumped Storage Hydro Power Projects. The details are as follows:

<b>S. No</b>	<b>Location</b>	<b>Estimated Potential in MW</b>
1	Gandikota, YSR Kadapa Dist.	1000
2	Chitravati, Anantapuramu Dist.	500
3	Somasila, Nellore Dist.	900
4	Owk Reservoir, Kurnool Dist.	800
5	Kurukurti, Vijayanagaram Dist.	1200
6	Karrivalasa, Vijayanagaram Dist.	1000
7	Yerravaram, Visakhapatnam Dist.	1200
	<b>Total</b>	<b>6600</b>

In order to evacuate the power from the above PSP projects, APTransco has provided tentative alignment of line from each PSP Project to feasible APTransco Substation. Details of the PSP project along with feasible APTransco Substation is as below:

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<b>S. No</b>	<b>PSP Location</b>	<b>APTRANSCO Substation</b>	<b>Estimated Potential in MW</b>	<b>Tentative BEE Length (Km)</b>
1	Gandikota, YSR Kadapa Dist.	400/220 KV Talaricheruvu SS	1000	30.64
2	Chitravati, Anantapuramu Dist.	400/220 KV RTPP SS	500	58.52
3	Somasila, Nellore Dist.	400/220 KV Podli SS	900	119.77
4	Owk Reservoir, Kurnool Dist.	400/220 KV Talaricheruvu SS	800	42.21
5	Kurukurti & Karrivalasa, Vizianagaram Dist.	400/220 KV Madaram SS	1000+1200	40.83
6	Yerravaram, Visakhapatnam Dist.	Kakinada SEZ Substation	1200	69.89
	<b>Total</b>		<b>6600</b>	

The consultant has to take up the Preliminary Reconnaissance Survey to arrive the extents and classification of revenue/ private / forest lands along the proposed transmission line corridor with 50 mtr on either side of the route. The scope of work is majorly divided to two parts as mentioned below:

**Milestone – 1**

1. Conducting preliminary reconnaissance survey from the **proposed pumped hydro storage power project (PSP) to APTransco 400 KV Substation in Andhra Pradesh.**
2. During the survey consultant shall study various alternatives and propose feasible three (3) routes.
3. During the survey consultant shall obtain the details of major & minor crossings which include major and minor roads, HT/ EHV transmission line, railway lines, rivers, canals, mining areas, nearby villages, major trees, bridges, pilgrim locations and any other permanent structures.
4. The consultant shall prepare and submit preliminary route plan earmarked on topographical sheets (issued by Survey of India) showing prominent points along the

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route e.g., towns, villages, rivers/canal, kuccha / pucca paths/highways, railway crossing etc.

5. The Line survey work shall be conducted as per IE standards.
6. Enumeration of tree along the transmission corridor shall be made.
7. The consultants shall submit drawing in softcopy (PDF, CAD format) and 3 sets of hardcopies.
8. The consultants shall mention constraints and/or facilities availing in case of different possible routes.
9. The following requirements/restrictions shall be kept in mind while selecting the alternate route-proposals:
  - a. The Transmission Line route should be the shortest possible and should be, as straight as practicable and frequent line deviations should be avoided.
  - b. The route should be accessible from some highway in all weathers to facilitate construction and maintenance of the line.
  - c. It should involve minimum number of crossings with power lines, P&T Lines, Roads, Railway number of crossing with power crossing that are un-avoidable should be made at right angles or as near as possible and the deviation angle should not be more than 30° in any case.
  - d. The route should avoid buildings of all kinds, Airports, Radio/T.V./Wireless Transmitting Stations, Radar Stations, Shooting Ranges, Countryside with heavy timber areas subject to heavy run-off and swamps etc. as far as possible.
  - e. The power lines should not run in parallel or close to each other. A minimum distance equal to the height of structure of the higher voltage line should be kept between the two lines except in special circumstances created by difficulties of scope.
  - f. The Transmission Lines should not be located close and parallel to communication lines i.e. Telephone/Telegraph or Signal lines, including Railway Communication Lines, to avoid any inductive interference on these lines.

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- g. As far as possible, the crossing of lines through forest areas should be avoided and where the forest crossing is un-avoidable, the length of the line through forests should be kept minimum.
- h. The line should be away from buildings containing explosives, bulk oil storage tanks, oil & gas pipelines.
- i. Minimum 500 meters clearance should be kept between the line and the brick-Kilns to protect the line from the smoke emitted by brick-kilns.
- j. In case some chemical industry is located near the proposed line, a minimum clearance of 2KMs should be kept between the line and such industry to protect the line from acidic fumes.
- k. The cost of securing and clearing right of way and protection works of towers wherever required and making access-roads and the time required for such should be minimum.
- l. NREDCAP reserves right to suggest alternate route or change in alignment. Consultant shall carryout survey within the price quoted.

**Milestone – 2**

- 1. Identification of villages falling under proposed transmission line route in the state.
- 2. Obtaining village maps from revenue department of Andhra Pradesh.
- 3. Digitization of Transmission line corridor and Geo-referencing the village maps.
- 4. Superimposing the proposed transmission line on Geo Referenced maps.
- 5. Identification of Survey numbers, Type of land, extent of transmission line passing through the survey number and owner details.
- 6. Consultant shall submit the entire Geo Referenced village map from which proposed transmission line is passing.
- 7. Generation of final maps (3 Hardcopies and 2 softcopies) of A1 size.
- 8. Village wise land ownership details along with extent of land proposed for ROW to be provided in Excel sheet.

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**(D) OTHER TERMS & CONDITIONS:**

1. The bidder shall quote separately for each location per Km basis and NREDCAP has the right to allocate the projects to a single bidder or different projects to different bidders.
2. The Consultants / Bidder may require making a presentation before NREDCAP Officials/ APTransco officials on completion of survey work and preparation of Topographical maps.

**(E) TECHNICAL QUALIFICATION REQUIRED:**

- i. The Consultants / Bidder shall have experience in preparation of cadastral maps and also who are in the field of topographical surveys.
- ii. The Bidder / Consultants shall be approved by APTransco or Indian Railways or similar organizations.
- iii. The Bidder / Consultants approved/empanelled with APTransco or Indian Railways or similar organizations are preferred.
- iv. The consultants shall have completed successfully at least two studies within the country.
- v. The Bidder shall submit the copies of the work orders along with work completion reports towards proof to fulfill the technical qualification requirement.

**(F) FINANCIAL QUALIFICATION REQUIRED:**

The Consultants / Bidder shall have cumulative annual turnover of Rs.50.00 Lakhs during the last 3 years period i.e. 2018-19 to 2020-21. The annual reports / audited balance sheet shall be submitted towards fulfilling the condition of financial requirement.

**(G) RECEIPT OF QUOTATIONS:**

The sealed bids i.e, technical bid & financial bid shall be submitted in sealed cover separately on or before 3.00 PM 04<sup>th</sup> December 2021 to the VC & Managing Director, NREDCAP, 12-464/5/1, River Oaks Apartment, CSR Kalyana Mandapam Road, Tadepalli, Guntur District, Andhra Pradesh – 522 501 and the same will be opened in the chambers of General Manager (EC) / NREDCAP as per schedule.



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The Tender cover shall contain the superscriptions “Conducting preliminary route survey and identification of land ownership for laying 400 KV transmission line from proposed pumped hydro storage power project in Andhra Pradesh”.

Bids through email will not be accepted.

**(H) VALIDITY:**

The tender shall be valid for a period of 90 days from the date of opening of the tender.

**(I) PRICES:**

The quoted price shall be per Km basis inclusive of all taxes except GST. The GST will be reimbursed to the consultant as applicable. No facilities of any kind will be provided by NREDCAP in carrying out investigations. The consultant on award of the work shall make his own arrangements for transportation, conveyance or accommodation etc., during their visits to the site or to NREDCAP Offices. However, NREDCAP will facilitate in getting permissions if any from any organization for carrying out survey works.

**(J) TERMS OF PAYMENTS:**

Progressive payments will be made as follows:

- a) 90% of the accepted price against milestone 1 will be paid upon completion of survey work and submission of Topographical Maps showing alternate routes.
- b) 90% of the accepted price against milestone 2 will be paid upon completion of milestone 2.
- c) Balance 10% against each milestone will be paid against acceptance of route, drawings and data by APTransco

**(K) TIME SCHEDULE:**

The work shall be completed as detailed below:

- a. 1<sup>st</sup> Milestone – 30 (Thirty) days from the date of receipt of Purchase Order.
- b. 2<sup>nd</sup> Milestone – 60 (Sixty) days from the date of completion of Milestone 2.

**(L) PENALTY:**

In the event of any delay beyond the stipulated dates given above, NREDCAP reserves the right to recover from the consultant a sum equivalent to 0.5% of Work Order value

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for each week of delay and part thereof subject to a maximum of 5% of the total value of order. VC & Managing Director, NREDCAP reserves right to extend the time based on case to case.

**(M) ARBITRATION:**

All or any disputes or differences shall be decided by courts or tribunals of the AP Jurisdiction only. No suit or other legal proceedings shall be instituted elsewhere.

**(N) GENERAL:**

It is not binding on NREDCAP to accept the lowest or any quotation. The NREDCAP reserves the right to cancel the tender without assigning any reasons there for.

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**TECHNICAL BID FORMAT**

All pages of the Technical Bid shall be organized section-wise, annexed with proof documents, serially numbered and stitched/or spiral bound intact and submitted) Loose pages shall not be accepted.

**1. GENERAL PARTICULARS OF TENDERER**

<b>SL.</b>	<b>PARTICULARS</b>	<b>TO BE FUNISHED BY THE TENDERER</b>
1	Name of Tenderer/Firm	
2	Postal Address	
3	E-mail address for communication	
4	Telephone/ Fax No.	
5	Name, designation, address, contact number and Email of the representative of the tenderer to whom all references shall be made.	
6	Nature of the firm (Individual/ Partnership/Consortium/ Pvt. Ltd /Public Ltd. Co. /Public Sector, etc.) Attach attested copy of Registration & Partnership deed/ Memorandum of Association	
7	Amount and particulars of the Earnest Money Paid	
8	Amount and particulars of the Bid Processing Fee (non- refundable)	
9	Name and address of the Indian/foreign collaboration if any.	
10	PAN NO (Copy of certificate to be enclosed)	
11	GST No. (copies of certificates to be attached)	
12	Cumulative turnover of the company during the last three years period (2018 - 2021)	

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13	Has the Tenderer/firm ever been debarred by any institution for undertaking any work?	
14	Any other information attached by the Tenderer (Details of Annexure / page no. where its enclosed)	
15	Does Tenderer have any relative Working in NREDCAP? If yes state the Name and designation.	

## 2. DETAILS OF TURNOVER

Please fill in information on turnover of the company during the last three years.

FY 2018-19 (Rs. In lakhs)	FY 2019-20 (Rs. In lakhs)	FY 2020-21 (Rs. in lakhs)

## 3. DETAILS OF EXPERIENCE

Sl. No	Description of Work	Work order issued by	Reference of work order	Work Order value (in Rs)	Details of work completed
1					

### **Mandatory Documentary Evidences to be submitted:**

- A. Work Order Copies
- B. Project Completion Report/Certificate issued by the Appropriate authority
- C. Vendor registration with any Govt. organization as surveyor.

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**FINANCIAL BID**

**NAME OF THE WORK: CONDUCTING PRELIMINARY ROUTE SURVEY FOR LAYING 400 KV TRANSMISSION LINE FROM PROPOSED PSP PROJECT TO APTRANSCO SUBSTATION IN THE STATE OF ANDHRA PRADESH**

Sl. No.	Project Location	Taluk	District	Amount quoted (in Rs)/ Km			
				Milestone 1		Milestone 2	
				In figures	In words	In figures	In words
1	Gandikota	Gandikota	Kadapa				
2	Owk Reservoir	Jammalmadugu	Kurnool				
3	Somasila	Atmakur	Nellore				
4	Chitravathi	Tadimarri	Anantapur				
5	Kurukutti & Karrivalasa	Salur	Vizianagaram				
6	Yerravaram	Atchutapuram	Vishakapatnam				

SIGNATURE OF THE AUTHORISED PERSON:

NAME OF THE AUTHORISED PERSON:

DESIGNATION:

NAME AND ADDRESS OF BIDDER AND STAMP OF BIDDER

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**CHECKLIST TO ACCOMPANY THE TENDER**

<b>S. No</b>	<b>Description</b>	<b>Whether Uploaded or not</b>	<b>Page No. (see Note below)</b>
1	2	3	4
1	Company Registration certificate	Yes /No	
2	Demand draft towards Cost of tender processing fee Rs.5,000 + GST @ 18% per each location	Yes /No	
3	Demand draft towards requisite Earnest Money Deposit Rs.10,000 per each location	Yes /No	
4	Copy of PAN card	Yes /No	
5	Annual Reports/CA Certificate for the Turnover for the period 2018-21 (Year wise)	Yes /No	
6	Copies of GST Registration Certificate.	Yes /No	
7	Technical Experience details	Yes /No	
8	Information on litigation history if any in which Bidder is involved.	Yes/No	
9	Any other documents/certificate as specified in tender conditions	Yes /No	

**Notes:**

1. All the statements copies of the certificates, documents etc., enclosed to the Technical bid shall be given page numbers on the right corner of each certificate, which will be indicated in column (4) against each item. The statements furnished shall be in the formats appended to the tender document.

2) The information shall be filled-in by the Tenderer in the check list, as applicable and shall be enclosed to the Technical bid for the purposes of verification as well as evaluation of the Tenderer’s Compliance to the qualification criteria as provided in the Tender document.

The bidder shall sign on all the statements, documents, certificates by him, owning responsibility for their correctness/authenticity.