

Odisha Renewable Energy Development Agency, (OREDA)
S-59 Mancheswar Industrial Estate
Bhubaneswar-751010
Tele- 0674-2581552
Fax- 0674-2586368
Web:-www.oredaoriss.com

Tender Call Notice No-354 dated- 3-02-2012

Tender Notice

SEALED tenders are invited from registered, reputed, Manufacturers/
Fabricator/Suppliers in the country for Supply, transportation, civil
foundation works, successful installation and commissioning of 10 nos. of
80 m tall tubular mast in all respect in 10 locations in the state of
Odisha..

Date of Sale of tender:-**07/02/2012** From 10:00 hrs. to **28/02/2012** upto
17:00 hrs. during office hours only.

Date of Submission of tender: - **29/02/2012** upto **15:00 hrs.**

Date of Opening of tenders: -**29/02/2012**at **16:00 hrs.**

Manufacturers/Fabricators/Suppliers may obtain the Tender documents at above
address or may visit the OREDA web site www.oredaorissa.com for further
details. OREDA reserves the right to accept or reject any or all the tenders without
assigning any reason thereof.

Chief Executive
Odisha Renewable Energy Development Agency (OREDA), Bhubaneswar.

2. DETAIL TENDER NOTICE

Chief Executive, Odisha Renewable Energy Development Agency (OREDA) intend to invite SEALED tenders for Supply, transportation, civil foundation works, & successful installation and commissioning of 10 nos. 80 m tall tubular wind monitoring mast in all respect at the selected sites in Odisha.

- Tender Document Cost** Rs.10,400/-(Rupees Ten Thousand Four Hundred only) to be paid in cash / demand draft drawn in favour of Chief Executive, Odisha Renewable Energy Development Agency payable at Bhubaneswar. (In case tender download from website DD of Rs 10,400/- may be submitted in Technical Bid)
(Non- refundable).
- Sale of Tender** : **07/02/2012** From 10:00 hrs to **28/02/2012** upto **17:00 hrs.**
- Earnest Money Deposit.** :
Rs. 50,000/-
In the form of demand draft drawn of Nationalized Bank in favour of Chief Executive ,Odisha Renewable Energy Development Agency payable at Bhubaneswar, may be submitted in Technical bid sealed envelop (A).
- Security Deposit** :
5% of contract value, In the form of demand draft drawn in favour of Chief Executive, Odisha Renewable Energy Development Agency payable at Bhubaneswar by the successful bidder.
- Date of Submission of Tender** : **29/02/2012** upto 15:00 hrs
- Date of Opening of Tender** : **29/02/2012 at 16:00 Hrs.**
In the presence of the authorized representatives who wish to participate in the tenders.
- Validity of Tender** : The offers should be valid up to 180 days from the date of submission of the tender.

BID SUBMISSION:-

Tender documents shall be submitted in two-bid system as Technical Bid in sealed cover- (A) & Commercial Bid in sealed Cover- (B) respectively.

For (A) – Technical Bid

Sealed envelop cover – (A) will contain

1. Letters – Mentioning documents submitted.
2. **Detailed tender notice, General terms and conditions and tender documents duly signed on each page and copies attested by competent Authorities.**
3. Receipt of purchase of Tender document OR DD of Rs. 10,400/- In case of tender document down loaded from website.
4. Duly filled statements viz.
 - (i) Statements - I – Company profile
 - (ii) Statements - II – Specifications and Drawings of 80 m mast
 - (iii) Statements - III – Undertaking
 - (iv) Statements - IV – Financial parameters of organization
 - (v) Statements - V – Details of similar Type work carried out by bidder
 - (vi) Statements - VI – Details of plant and Machinery available
 - (vii) Statements - VII – Details of Technical personals available with bidder
5. EMD in the form of D.D.
6. Audited Balance Sheet of the Company for the last three years
7. Certificate of financial soundness/Latest solvency certificate from the bankers

To furnish copies of the following documents.
 - a) Permanent Account No. card zerox copy b)
Recently paid income tax challan copy.
8. Sales Tax (VAT) /Central Sales tax Registration Certificate
9. ST/PT Registration
10. Turn over of last 3 years.
11. List of similar type of works executed with its cost and performance report of authority concerned.

Sealed envelop cover – (B) will contain

- Only financial offer as per Commercial bid (Annexure-A)

Cover (A) and Cover (B) shall be duly super scribed as “Technical bid for Supply, transportation, civil foundation works, & successful installation and commissioning of 10 nos. 80 m tall tubular wind monitoring mast in all respect at the selected sites in Odisha” AND “ Commercial bid” for Supply,

transportation, civil foundation works, & successful installation and commissioning of 10 nos. 80 m tall tubular wind monitoring mast in all respect at the selected sites(List Enclosed in Annexure A).

Full name and address of BIDDER shall be written clearly on the each sealed cover.

Envelop – (A) will be opened and scrutinized as per required documents. List of the technically qualified bidders will be issued. Only technically qualified bidders envelop – (B) will be opened.

The tender document may be collected from OREDA, Bhubaneswar.. Reputed /Manufacturers/Fabricators/suppliers may visit the OREDA web site www.oredaorissa.com for details.

Chief Executive, OREDA, reserves the right to reject any or all parts of tender without assigning any reason thereof.

Chief Executive
Odisha Renewable Energy Development
Agency, Bhubaneswar.

3. GENERAL TERMS AND CONDITION:

Sealed tenders are invited from the registered manufacturers, fabricators, suppliers, for Supply, transportation, civil foundation works, & successful installation and commissioning of 10 nos. 80 m tall tubular wind monitoring mast in all respect at the selected sites. (List enclosed as per annexure-I)

The tender should be completed in all respect and submitted. The rates should be quoted as in the Annexure – (A). The Profile of the Company, specifications, Undertaking and tender for works to be furnished as per statements – I to VIII & statement – A respectively.

The tender should be delivered by person/post at the office of the Odisha Renewable Energy Development Agency, (OREDA), **S-59 Mancheswar Industrial Estate Bhubaneswar-751010** on or before **29/02/2012 up to 15:00 Hrs.** It is the sole responsibility of the bidder to ensure safe and timely delivery of the tender to OREDA. No consideration will be given if the tenders are lost or are delayed during transit. Tenders received after the due time and date will not be accepted.

Opening of Tenders:-

The competent authority will first open the original sealed cover (A) as mentioned “Technical bid” in the presence of the bidders or their authorized representatives as may be present on the date and time mentioned in this notice. All the tenders thus received will first be examined by the authority and if required clarifications will be sought from bidder.

Technical bids will be scrutinized by tender opening authority and decide eligibility of bidders for opening commercial bid.

The second sealed cover – (B) mentioned as “Commercial bid” will be opened in the presence of bidders or his authorized representative.

i) The sealed tenders based on design and drawings approved /certified by Govt. /Semi Govt./registered structural design engineering firms will be considered for opening only, when the authority opening the tenders is satisfied about the compliance of conditions as mentioned. Otherwise the sealed cover – (B) containing the commercial bid will not be opened at all, and will be returned to the bidder treating it as invalid and his acknowledgement obtained in token of the same.

ii) The bidder shall have to sign the original copy of the tender papers and the drawings according to which work will be carried out. He shall also have to give a declaration to the effect that he has fully studied the tender document, specifications, local site conditions, availability of labour and materials and he has quoted his rates with due consideration to all these factors.

- iii) The eligibility of the bidder will be decided based on criterion set in technical bid. The decision of the Chief Executive, OREDA in this regard will be final and conclusive.
- iv) TECHNICAL and COMMERCIAL BIDS OF THE Tenders received upto **15:00 hrs.** on **29/02/2012**, if possible will be opened at 16:00 hrs. on the same day at the office of OREDA, Bhubaneswar – 751010 in the presence of the bidders who wish to be present at the time of opening. The representatives of the tendering firms desirous of attending the tender opening should bring an authorization letter from their respective firms. If the due date is declared as a holiday, the tenders will be received and opened on the immediate succeeding working day without any change in the timings indicated.
- v) If the bidder has any doubt regarding the meaning of any portion of this tender enquiry or finds any ambiguity in any of the terms and conditions stipulated in this tender, he shall get it clarified from Dy Director (Technical) R E Division, OREDA before the submission of his tender.

1. Rights of the OREDA: -

The OREDA reserves the right to:-

- a. Revise the quantities at the time of placing order
- b. Relax or waive any of the conditions stipulated in the tender enquiry wherever deemed necessary in the best interest of OREDA.
- c. Reject any or all the tenders without assigning any reasons thereof.
- d. Award the contract to one or more bidders.

2. REJECTION OF TENDERS:-

The tender is liable to be rejected if it is :

- a. Not properly filled signed by the bidder
- b. Of any black-listed firm or bidder
- c. Received by fax or telegram
- d. Received after the expiry of the due date and time.
- e. Not in conformity with Terms and Conditions of Tender enquiry
- f. Found that the past performance of the bidders with C-WET, Chennai or OREDA or any other agency is not satisfactory.
- g. Incomplete and evasive
- h. Without EMD / Tender cost
- i. Financial & Technical bids are not submitted in separate envelop

j. Structural design & drawings have not approved by competent authority

3. COMPLETENESS OF TENDER:-

- (a) The tender should be completed with details of materials used for each items/components and quantity required to fabricate the 80 m high tubular tower including foundation bolts and the civil works, specifications used and descriptive literature and drawing. The details regarding the installation of the mast and the equipments required for its installation is also to be included with illustration.
- (b) The details including drawing & specifications of weather proof housing box for data logger, brackets and other hardware used for fixing anemometers, wind vanes, details of lightening arrestor including earthing kit should be a part of the tender.

(C) Eligibility Criteria:-

- i) The bidder should have sufficient skilled manpower, having an experience of erection, lowering/dismantling/hauling of 80 m tall guyed tubular wind monitoring masts without any damage, Civil foundation work, erection and commissioning of 80 m tall tubular mast in all respect tools and tackles and ability for transportation safely under supervision of skilled and experienced personnel.
- ii) **Bidder must submit the copy of 80 m tall guyed tubular wind monitoring masts vetted design and drawings approved /certified by Govt. /Semi Govt./registered structural design engineering firms certified by competent authority. The 80 m tall tubular guyed mast should be designed to withstand for wind speed of 45 m/s with 3 seconds gust period.**
 - ii) Technical & Financial Capability (As per the tender requirements)

a) Bidder must have 3 (three) experience of installing and successful commissioning of at least 10 nos. of 80 m height tall guyed tubular Wind Monitoring stations any where in India.

b) The firm must be having minimum annual turn over of Rs 50 lakhs each year in preceding three years.

c) The firm should be ISO 9001: 2000 certified

iii) QUALIFYING REQUIREMENTS:-

The following are the qualifying requirements for the Bidder. Bids, which do not meet the listed requirements/ non submission of the documents, may not be considered eligible for opening of financial bid.

iv) Organization:-

In case the bidder is a Partnership Firm, certified copy of the partnership deed together with a certified extract from the registrar of firms containing names & addresses of all the partners of the firm should be furnished along with the offer.

In case of proprietary, bidder shall submit the certificate issued under shop and establishment ACT.

In case of Company (whether private or public) certified copy of the "Certificate of incorporation" together with certified Memorandum and Articles of Association & a list containing names & address of Proprietor should be furnished.

In case of consortium, the lead/major/minor partner of the consortium shall be identified clearly. The roles and responsibility of the entire consortium partner shall be identified and indicated in clear terms. The bidder shall submit the original copy of the agreement executed in legally bound manner stating the responsibility of all the members of consortium. The lead and major members of the consortia shall be liable jointly and severally for successful completion of the contract.

d) Acceptance of Tender:-

The acceptance of the tender may be intimated to the bidder by the OREDA officials and such intimation shall be deemed to be an intimation of acceptance of the tender given by the authority competent to accept the tender.

Acceptance of the Tender constitutes a concluded contract; nevertheless, the successful bidder must within 15 days after the acceptance of his Tender furnish 5% of the amount of the contract as interest free security deposit in the form of D.D. and execute an agreement at his own cost for the satisfactory fulfillment of the contract. The interest free security deposit of 5% will be refunded after completion of the works in all respect.

e) RESPONSIBILITY OF THE BIDDER:-

All expenses towards mobilization at site and demobilization including bringing in equipment, work force, materials, dismantling the equipment, cleaning the site after completion of work and liaisoning with OREDA, land owners village authorities/ concerned departments etc, shall be deemed to be included in the prices quoted and no separate payments on account of such expenses shall be entertained. Dismantling of mast and cleaning of the site is the responsibility of the bidder/vendor after study period is over as per direction of OREDA.

It shall be entirely the bidder's responsibility to provide equipments, scaffoldings and safety gadgets, other lifting tackles, tools and appliances to perform the work in efficient manner and complete all the job as per time schedules.

The manufacturing/procuring and supply of all 80 m mast materials and

consumables shall be entirely the bidder's responsibility and the rates for execution of work will be inclusive of supply of all these items.

4. PRICE:-

The rates quoted should be inclusive for Supply, transportation, civil foundation works, & successful installation and commissioning of 10 nos. 80 m tall wind monitoring mast in all respect at the selected sites by OREDA. The rate quoted should be inclusive of VAT, octroi, all other taxes, excise duty, Insurance of Wind monitoring Station for two Year Period from the Date of Commissioning of the wind monitoring station etc. **The bidder should visit the sites and quote accordingly.** Rates shall be quoted clearly both in figures and words. In case of discrepancy in unit and total prices, higher price shall be taken to be final price for purpose of evaluation of the tender.

5. EARNEST MONEY DEPOSIT:-

- (a) An earnest money deposit of Rs. 50000/- (fifty thousand only) for Supply, transportation, civil foundation works, & successful installation and commissioning of 10 nos. 80 m tall wind monitoring mast in all respect at the selected sites by OREDA should be deposited along with the tender in form of Demand Draft payable to Chief Executive OREDA, Bhubaneswar. This EMD will be returned to unsuccessful bidders after payment of SD by successful tender and on receipt of request for return the same. The earnest money deposit in respect of successful bidder will be adjusted against the security deposit. Tenders received without EMD will summarily be rejected.
- (b) EMD shall be forfeited if the tender withdraws or amends / impairs and derogates from the tender in any respect within the period of validity of tender or fails to furnish the agreement /security deposit.

6. TAXES:-

Offer for Supply, transportation, civil foundation works, & successful installation and commissioning of 10 nos. 80 m tall wind monitoring mast in all respect at the selected sites by OREDA should be inclusive of VAT, octroi, all other taxes, duties, excise duty, transportation at any selected site by OREDA in Odisha. The offers should be valid for a period up to 180 days. OREDA will make TDS from the payment as per Government rules and will issue necessary certificates of tax deduction.

7. PAYMENT TERMS:-

- a) 80% Payment after supply of 80 m tall tubular mast material at site, civil foundation work, fixing of all sensors, data logger, successful erection and commissioning of the wind monitoring station in all respect, after receipt of reports from the Asst Director (Tech) /OIC of the respective R E Cell, DRDAs of the districts and after submission of insurance policy to OREDA office with minimum lot of 5 nos. of stations at a time. The bills and challan in triplicate must be submitted for release of payment.

- b) Balance 20% payment shall be released after submission of performance bank guarantee of 10% of the ordered value valid for the two year period from the date of commissioning of the last station.

8. INSURANCE:-

Quote should be inclusive of premium for transit insurance. Bidder will take care of insurance of all installed wind monitoring stations under the contract of 80 m height Wind monitoring mast sets against theft, collapse of mast, any damage by miscreant/ unknown person. After successful installation of each station Manufacturer/Fabricators/supplier will complete the procedure for insurance of the individual station immediately. After installation and commissioning 80 m WRA stations insurance policies in name of OREDA shall be obtained by the bidder from Govt. insurance companies for the two years period from the date of commissioning of the stations and shall be submitted to OREDA. For insurance station wise total contract cost may be considered. Insurance policy may be submitted to OREDA in one month time. At the time of payment you will submit the copy of the proposal submitted for Insurance policy to insurance office. The Insurance policy may be obtained from the concerned insurance office and shall be submitted to OREDA. The installations must have insurance cover from the day one i.e. commissioning day for each commissioned station in all respect for the two years period.

OREDA will not be responsible for any accident/ calamities of your man/material while on tour for the said work. Personnel/persons working under this contract shall be insured by you on your risk and cost.

9. GUARANTEE:-

Guarantee should be for minimum period of two years period against manufacturing and erection defects including civil foundation work. During the guarantee period, if any defects occurs during transit, installation and other technical defects of the material / equipment supplied are observed then the supplier / bidder should arrange for replacement of defective material at their cost to the respective site and replace the material /re cast the civil foundation with de-erection, erection and commissioning of mast if required at his cost and risk at site. Also, the bidder shall guarantee the 80 m tall tubular wind mast withstand for wind speed of 45 m/s with 3 seconds gust period. Otherwise, the bidder shall be liable for a penalty of half percent per week during breakdown period on the total contract price. The guarantee will have to cover all the materials and goods supplied by the supplier under the contract irrespective of the fact whether these have been manufactured by the bidder or not.

Model form of guarantee is furnished below:-

The bidder hereby declares that the equipment / goods/ stores/ articles related to the 80 m ht. mast sold to the OREDA under this contract shall be of the best quality (and workmanship) and shall be strictly in accordance with the specifications and particulars contained/mentioned in the tender in the technical specifications. Here of and the bidder hereby guarantees that the said goods /stores/articles would continue to conform to the description and quality aforesaid for a period of 24 months and that notwithstanding the fact that the

OREDA (or any officer authorized in this behalf) shall inspect and / or approve the said goods/stores/articles. If during the aforesaid period of 24 months the said goods/stores/articles be discovered not to conform to the description, specifications and quality aforesaid or have deteriorated (and the decision of the OREDA in that behalf will be final and conclusive) the OREDA will be entitled to reject the said goods/stores/articles or such portion thereof as may be discovered not to conform to the said description and quality. On such rejection the goods/stores/articles will be at the seller's risk and all the provisions herein contained relating to rejection of goods, etc., shall apply. The bidder shall, replace the goods, etc., or such portion thereof rejected by the OREDA, otherwise the bidder shall pay to the OREDA such damages as may arise by reason of the breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the OREDA in that behalf under this contract or otherwise.

10. VALIDITY OF TENDER:-

The rates quoted in the tenders should be valid for a period of at least 180 (One Hundred Eighty) days from the date of tender opening.

11. SECURITY DEPOSIT:-

- a) The successful bidders shall have to pay Security Deposit in the form of Demand Draft Drawn in favor of Chief Executive, Odisha Renewable Energy Development Agency, payable at Bhubaneswar, for Supply, transportation, civil foundation works, & successful installation and commissioning of 10 nos 80 m tall tubular wind monitoring mast in all respect at the selected 10 sites in Odisha.
- b) In the event of failure of the bidder to pay security deposit as per (a) above within 15 days (unless extended in writing by the OREDA) from the date of acceptance of work order, the amount of earnest money shall be forfeited. And the acceptance of work order shall be considered as withdrawn. Except that in the event of work order not being issued within 180 days of the date of opening of tenders, the bidder shall have the option (to be intimated in good time before the expiry of 180 days period) of withdrawing his tender, in which case the earnest money shall be refunded in full. All tenders shall be kept open for 180 days from the date of the opening of tenders.

12. WITHDRAWAL OF TENDER:-

Withdrawal from the Tender after work order has been accepted or failure to supply within a specified time or according to specifications will entail cancellation of the work order.

13. ENHANCEMENT OF PRICES:-

No representation for enhancement of the price once accepted will be considered.

14. CANVASSING:-

Any attempt on the part of bidders or their agents to influence the officers concerned in thereof favor by personal canvassing will disqualify the bidders.

15. LICENSE / PERMIT:-

If any license or permit is required, bidders must specify in their Tender and also state the authority to whom the application is to be made.

16. SUPPLY OF REQUIRED QUANTITY:-

The Tender is for Supply, transportation, civil foundation works, & successful installation and commissioning of 10 nos of 80 m tall tubular wind monitoring mast in all respect at the selected site The site details is reflected in Annexure-I. The Asst Director (Tech) /OIC, OREDA of the district will indicate the exact location at the time of installation met mast. Also installation work will be done as per the instruction of the concerned Asst Director (Tech)/ OIC , OREDA of the district.

17. FAILURE OF THE BIDDER TO SUPPLY THE QUANTITY ORDERED:-

- (a) Even in cases where no alternate purchase are arranged for the materials not supplied, the proportionate portion of the security deposit based on the cost of the materials not supplied at the rate shown in the tender of the defaulter shall be forfeited and balance amount shall be refunded.
- (b) Any sum of money due and payable to the bidder (including Security Deposit returnable to him) under this contract may be appropriated by the OREDA or any other person authorized by the OREDA and set off against any claim of the OREDA for the payment of a sum of money arising out of or under any other made by the bidder with the OREDA or any other person authorized by OREDA.

18. MONEY DUE AND PAYABLE:-

Any sum of money due and payable to the successful bidder or bidder from the OREDA shall be adjusted against any sum of money due to the OREDA from him under any other contracts.

19. CONDITIONS PRESCRIBED BY THE BIDDERS:-

If tender provides any Special conditions, additional information if any, printed on the Tender sheets of the bidder or attached with the tender separately regarding specifications any concessions in offer to improve the utility, performance, efficiency or economy of the offer such offer will not be binding on OREDA but will be considered on its merit.

20. COMPLETION PERIOD:-

Once offer is accepted by OREDA and issue work order the firm should complete the Supply, transportation, civil foundation works & successful installation and commissioning of 10 nos 80 m tall tubular wind monitoring mast in all respect at the selected sites anywhere in Odisha **within 4 (four) months from the date of issue of work order by OREDA**. If the guaranteed delivery period is not kept up the Liquidated damages specified herein will be enforced. OREDA is at liberty to alter the delivery period to suit its needs as and when necessity arises, during pendency of the contract. If required, extension will be given in case of unavoidable delay in site matter beyond control.

21. LIQUIDATED DAMAGES:-

The delivery / completion period given in clause 21 'Delivery' shall be guaranteed by the supplier under the following 'Liquidated Damages' clause. If the bidder fails to deliver satisfactorily the materials and complete the work within the time specified in the order /contract or any extension thereof the OREDA shall recover from the bidder as Liquidated Damages a sum of 0.5% of the contract price for each completed week of delay. The total liquidated damages shall not exceed five percent (5%) of the contract value so delayed.

If supplies / service to be rendered against this contract are made by the bidder beyond the period of delivery stipulated in the contract and they are accepted by the OREDA, such acceptance is without prejudice to the rights to recover liquidated damages for the delay in supply. The OREDA will also be at liberty to cancel the order if the work/supply is not completed within the stipulated period notwithstanding the Liquidated Damages Clause applicable for the belated supplies.

For any work/supplies made beyond given schedule the increase in statutory levies like duties, Sales Tax, etc. if any or fresh levies will not be borne by the OREDA. Liquidated damages will also be recovered for the quantity not supplied as is done for the late bidders.

22. LOSSES OR DAMAGE:-

External damages or shortages that are prima-facie the results of rough handling in transit or due to defective packing will be intimated within a fortnight of receipt of materials. Internal defects, damages or shortages of any integral parts, which cannot ordinarily be detected on a superficial visual examination and which are caused by bad handling in transit or defective packing, would be intimated after inspection on receipt of materials at site. In either case, damages or defective materials should be replaced, without any additional cost, by the bidders.

23. REPLACEMENT OF DEFECTIVE / DAMAGED MATERIAL:-

Notwithstanding anything contained in Liquidated Damages clause of this tender / Purchase Order, where the whole or part of the materials supplied by the bidder are found to be defective or damaged or are not in conformity with the specification during execution/Guarantee period such defects or damages in material supplied shall be rectified either at the point of destination or at the supplier's works at the cost of the bidder against proper security and acknowledgement. In the alternative, the defective or damages materials shall be replaced free of cost within 15 days on receipt of intimation from the purchaser of such defects or damages. If the defects or damages are not rectified or replaced within this period, the bidder shall pay the liquidated

damages at the rate of half percent of contract value of the materials concerned per completed week of delay from the date of receipt of intimation of the defects or damages subject to a maximum of 5% (five percent).

In the event of supplies being received damaged or short at the destination point the cost of such materials with Excise duty, Sales Tax and other charges payable thereof will be paid only proportionate to the value of the materials received in good condition unless the damaged goods or short supplies are made good free of cost to the OREDA by the bidder.

If during the period of supply and guarantee period it is found that goods already supplied, foundation work are defective in materials or workmanship or do not conform to the specifications or are unsuitable for the purpose for which they are purchased then it will be open to the purchaser either to reject the goods and repudiate entire contract and claim such loss that the purchaser may suffer on that account or require the bidder to replace the defective goods free of cost. If repair/replacement of defective parts is not done within 45 days from the date of complaint 10 % performance bank guarantee will be forfeited.

C-WET will supply instruments like data logger, anemometer, wind vanes, temperature sensor and radiation sensor. The supplying firm will provide proper weather proof housing for data logger, bracket and other hardware used and fix the above instrument in the met mast. During operational period of two years the instruments found defective will be replaced by C-WET but the instruments will be fitted by the supplier by lowering the mast. For this job the supplier will indicate the cost of each lowering and fitting and erecting the mast in the price bid separately.

24. INSPECTION:-

All the test and inspection shall be made at the place of delivery unless otherwise specifically agreed upon by the bidder and OREDA at the time of purchase if necessary.

25. FORCE MAJEURE:-

If at any time during the continuance of this contract, the performance in whole or in part or any obligation under this contract shall be prevented or delayed by reasons of any war, hostility, acts of public enemy, acts of civil commotion, strikes, lockouts, sabotages, fires, floods, explosions, epidemics, quarantine restrictions or other acts of Gods (herein after referred to as Eventualities) then provided notice of the happening of any such eventuality is given by the bidder to the OREDA within 15 days from the date of occurrence thereof, neither party shall, by reasons of such eventuality, be entitled to terminate this contract, nor shall have any claim for damages against the other in respect of such non-performance delay in performance. Deliveries under this contract shall be resumed as soon as practicable after such eventuality has come to an end or ceased to exist.

Provided that is the performance in whole or part by the bidder or any obligation under this contract is prevented or delayed by reasons of any eventuality for a period exceeding 60 days, OREDA may at its option, terminate this contract by notice in writing. It is hereby specifically agreed that time is the essence of the contract. The termination of the contract as aforesaid shall not absolve the bidder of his liability to pay damages to OREDA for the breach of contract to deliver the goods or complete the performance of the contract within the time limit stipulated in the work/purchase order or extension, if any, given thereof.

26. ARBITRATION:-

In the event of any dispute or difference between the bidder and the OREDA, arising out of any item of the tender, contract, purchase order, the same shall be referred to the sole arbitration of the Chief Executive (OREDA), or his/her nominee. It is the condition of this clause that all the hearing of the arbitration will take place at Bhubaneswar, and shall be subject to the jurisdiction of Odisha courts.

27. ROYALTIES AND PATENTS:-

Any royalties or patents or the charges for the use or infringement thereof that may be involved in the contract shall be included in the prices. Bidders shall protect the purchaser against any claims thereof.

28. RESPONSIBILITY:-

The bidder is responsible for Supply, safe transportation, civil foundation works, & successful installation and commissioning of 10 nos 80 mtall tubular wind monitoring mast in all respect at the selected sites. The bidder should include and provide for securely protecting and packing the materials as per relevant packing standards to avoid damages or loss in transit.

OREDA will not be responsible for any accident/ calamities of you man/material while on tour for the said work. Personnel/persons working under this contract shall be insured by you on your risk and cost.

29. OTHER TERMS AND CONDITIONS:-

The bidder, after accepting the contract shall not transfer or assign or sublet the contract or any part of the contract directly or indirectly to any person or persons whomsoever, without the written consent of OREDA.

The contract shall be valid for supplying the 10 nos of 80 m mast complete set including all related accessories for installation of the mast and undertaking the required civil work in the sites identified by OREDA. No price escalation shall be entertained till the end contract period. Apart from this you are requested to quote as per the financial offer formats as per the requirement of OREDA. On the basis of this per unit cost OREDA shall place the order for completing the work within the prescribed time period.

30. TECHNICAL SPECIFICATIONS:-

i. Mast specification:-

Supply of fully hot dip galvanized 80 meter tall tubular tilt up wind mast complete set with standard mast segments, guy wires set, turn buckles, thimbles, allied hardware, foundation anchors, plates/bolts, central hinge with all related accessories and hardware etc complete set including complete gin pole set with its all required allied hardwares etc. complete including required galvanized sensor booms & brackets for anemometers at 80 m, 78.5 m, 50 m and 20 m levels, for wind vanes at 80 m and 50 m level, temperature sensor at 10 m level and radiation sensor at 3 m level anemometry as per design drawing and specifications approved /certified by Govt. /Semi Govt/registered structural design engineering firms provided by the bidder along with the copy of vetted design attested by competent authority. Provision for cables routing shall be made through mast pipes only. Outside cable routing shall not be accepted. The mast is to be painted alternately with orange and white colour beyond 70m up to 80 meter. The colour length in patch should be 1 meter Orange/ white and the top (last) should be orange .

ii. Gin Pole:-

Fully galvanized Gin pole complete set with all necessary clamps, guy wires, forged steel D shakels etc as per bidder's standard design and drawing and specifications.

iii. Excavation:-

The supplier shall carry out the excavation for mast foundation and fixing of supporting guy wires as per the specific soil strata of the site as per bidders standard design drawing and specifications. In case of any doubt OREDA shall suggest suitable measures and/or modifications and supplier shall have to comply with the same without any additional cost.

iv. Cement Concrete Work:-

The mast supporting guy wires foundation shall strictly be as per the standards IS-456 / 1978, unless otherwise stated. The foundation shall be of sufficient strength so as to withstand the dead load of mast and heavy wind pressure acting on it. casting of Civil foundation work with 1: 1.5: 3 R.C.C. combination suitable w.r.t. soil strata of the site and as per bidders standard design drawing and specifications. Generally the sites identified are very remote, without roads, hilly and without any water and electricity. The supplier has to take into accounts all these factors while submitting the bid document. The supplier shall arrange for required quantity of water for foundation and curing work.

v. Foundation Work:-

Supplier shall carry out layout marking; excavation for mast, supporting guy wires foundation anchor pit; concreting of central hinge; foundation bolts as per as per bidders standard design drawing and specifications. All these works shall be carried

out under the supervision of OREDA.

vi. Mast Erection:-

- 1) With prior intimation to OREDA supplier shall transport the mast material to site with his own cost and risk. Mast erection shall be carried out as per the schedule mutually decided by OREDA and supplier. Mast erection shall be carried out in the presence of OREDA officials only.
- 2) In case of any site specific additional work required to be undertaken for excavation, foundation, erection and commissioning of the mast the same shall be at the cost of supplier.
- 3) After installation of the mast, Mast assembly should withstand any adverse weather conditions.

vii. Lightening protector/Earthlings:-

Providing and fixing of full copper lightning arrestor kit for anemometers at 80 m, 78.5 m, 50 m and 20 m levels, for wind vanes at 80 m and 50 m level, temperature sensor at 10 m level and radiation sensor at 3 m level anemometry with complete earthing kit, 2 nos. of 14 mm dia. spike rods, one no for spike rod in continuity in 12 gauge solid copper wire with 14 mm solid copper rod dia x length of copper rod 900 mm copper rod at the end as per standard design and drawing provided by the bidder

viii. Weather proof heavy duty Housing box for data logger:-

Providing and fixing of standard size Weather proof heavy duty Housing box of fully galvanized with double godrej cam lock provision for data logger safety with two nos. of universal locking system.

ix. Cable for Instruments:-

Providing and fixing of sufficient length copper wire of 5 core x 0.5 sq.mm (7/0.3 mm tinned copper cable, ATC conductor, LDP insulated in 5 diff. colours laid up together in aluminium miller shielded with 0.5 sq.mm ATC drain wire with gray PVC outer shield for anemometers at 80 m, 78.5 m, 50 m and 20 m levels, for wind vanes at 80 m and 50 m level, temperature sensor at 10 m level and radiation sensor at 3 m level anemometry.

31. GENERAL TECHNICAL REQUIREMENTS FOR 80 M HEIGHT MAST.

1. The 80 m mast to be made as per the standard sections. Individual sections to be plunged properly.
2. The 80 m tall tubular wind mast shall withstand for wind speed of 45 m/s with 3 seconds gust period.
3. The tower shall be supported by means of optimized guy supports at suitable intervals and ground supports at suitable radii.
4. The tower material shall be G.I. steel conforming to respective IS and each section

shall be properly protected against corrosion including coastal conditions.

5. Guy wires 6x19(12/6/1) fiber core right hand regular lay steel hot dip galvanized.
6. The threaded components including turn buckles/ stretching screws, dog grips, nuts & bolts, washers shall be cadmium plated. All the hardware used shall conform to respective IS as regards to the materials & manufacturing tolerances.
7. Necessary provision should be given for attaching sensors and booms also should be supplied.
 - a) 8. The installation & commissioning of the mast shall address of the following.
 - a) Safety of tower and personnel shall be a primary consideration.
 - b) Foundation design should take into account respective soil conditions.
 - c) Any damage to corrosion protection coating shall be repaired after installation.
 - d) Required pre tensioning of guy supports shall be ensured.
 - e) Grounding of mast shall be separately done providing adequate conductor sizes & earthing pit.
9. Any other associated work required for fabrication, installation and erection of 80 m guyed mast so as to make the job complete in all respects shall be the sole responsibility of the bidder. [The specifications/ Design/ Drawings enclosed if any with this tender are the property of OREDA. The responsibility lies with the Bidder not to divulge/divert any part or full and shall return these documents to OREDA].
10. Safety of tower and personnel shall be a primary consideration, and it is sole responsibility of the bidder. OREDA is not responsible for any accident/ calamities while assembling, installation, commissioning and transportation of material/man.

Annexure-I

List of sites for installation of met mast

Sl no	Name of the location	Block	District	Coordinates
1	Kasijaganathpur	Sadar	Puri	Lat-19 48 14 N Long-85 46 36E
2	Chedak	Chandbali	Bhadrak	Lat-20 51 13N Long-86 51 30 E
3	Hatipada	Rangailunda	Ganjam	Lat-19 13 59 N Long-84 51 49.9 E
4	U Allpur	Khalikote	Ganjam	Lat-19 37 55.8 N Long-85 9 38.3 E
5	Kadakala	Banspal	Keonjhar	Lat- 21 47 02 N Long- 85 19 40 E
6	Srikona	Balasore	Balasore	Lat- 21 28 08.9 N Long- 87 03 24.2 E
7	Paradeep	Kujang	Jagatsingpur	Lat- 20 15 20.7 N Long- 86 39 46.7 E
8	Artiputra ghati	Koraput	Koraput	Lat- 18 47 32.9 E Long- 82 57 17.25 E
9	Dakhili Panabandha	Kasipur	Rayagada	Lat- 19 6 23.8 N Long- 83 5 31.37 E
10	Zillagaon	Th Rampur	Kalahandi	Lat- 83 09 57.6 N Long- 19 39 47.5 E

STATEMENT – I

Tender for Supply, transportation, civil foundation works, & successful installation and commissioning of 10 nos 80 m tall tubular wind monitoring mast in all respect at the selected sites by OREDA.

PROFILE OF THE COMPANY:

The Company should furnish the following details:

1.	Name of the Company	
2.	Whether it is a Govt./Public / Private / Partnership / Proprietorship firm	
3.	Address of the Registered Office of the firm	
4.	Annual turnover for the previous three years (Audited statements) 2008-09 2009-10 2010-11	
5.	Details of the type of works executed so far & cost details of the work.	As per statement - VI
6.	Names of the Government departments / Undertakings and other reputed organizations for whom similar work was carried out recently with details (Nos. of mast supplied & erected) and reference Nos. of their orders	1. 2. 3. 4.
7.	Name of the person to be contacted for the above tender with telephone number	
8.	Copy of IT Clearance Enclosed	YES/NO
9.	CST/BST/ST Returns filed	YES/NO

Signature of Bidder,

Seal

Date

**STATEMENT II SPECIFICATIONS
AND DRAWINGS
80 m GUYED TUBULAR TOWER PARTS LIST**

Sr. No	Description	Specifications	Qty.	Remarks
1.	Central foundation bolt			
2.	Guy Foundation Bolts			
3.	Gin pole- details if multi segments are there			
4.	Mast segment- details of all segments should be given			
5.	Guy wire-details all guy wires			
6.	Turn Buckle			
7.	U-clamps			
8.	Nuts, Bolts and Washers & Spring washers			
9.	Thimbles			
10.	Bracket / mount for anemometer			
11.	Bracket / mount for wind vane			
12.	Lightning protector with copper wire and earthing kit			
13.	Weather proof housing box for data logger with clamps			

Signature of Bidder,

Seal

Date

STATEMENT - III

UNDERTAKING

I / we hereby quote the rates for Supply, transportation, civil foundation works, & successful installation and commissioning of 10 nos. 80 m tall tubular wind monitoring mast in all respect at the selected sites in Odisha in the manner in which and within the time specified as set forth in the conditions of the tender.

I / we have gone through the tender conditions and agree to abide by all the conditions mentioned in the tender.

I / we do hereby undertake that we will not demand any enhancement in the finally accepted rate under any circumstances during the period of the rate contract.

(Signature)

Name: Place:

Designation:

Date:

Office Seal:

**STATEMENT - IV
FINANCIAL PARAMETERS OF THE ORGANISATION
(TO BE FURNISHED BY BIDDER)**

Name and Address of the bidder -----

Phone :----- E- mail:----- Fax;-----

1. Audited Balance Sheet of the Company for the last three years
2008-09
2009-10
2010-11
2. Turn over
2008-09
2009-10
2010-11
3. Certificate of financial soundness/Latest solvency certificate from the bankers
4. To furnish copies of the following documents.
 - a. Permanent Account No. and Pan card zerox copy b.
Recently paid up income tax challan copy.
5. Sales Tax / Central Sales tax Registration Certificate
6. VAT Registration

(Photo copies must be attested by competent Authority)

Signature of Bidder

Seal

Date

STATEMENT - V

Details of Similar Type of Works Carried out by bidders.

Name of the Bidder:

Sr. No.	Name of Work	Cost of Work	Date of Starting	Stipulated date of completion	Actual date of completion	Remarks
1	2	3	4	5	6	7

Seal

Signature of Bidder

Date

STATEMENT - VI

Details of plant and machinery immediately available with the bidder for this work

Name of the Bidder: -----

Sr. No.	Name of Equipment	No. of Units	Kind and Make	Capacity	Age and Condition	Present location	Remarks
1	2	3	4	5	6	7	8

Seal

Signature of Bidder

Date

STATEMENT - VII

Details of Technical Personnel available with the Bidder

Name of the Bidder: -----

Sr. No.	Name of Person	Qualification	Whether working in field or in office	Experience of execution of similar work	period for which the person is working with the tender	Remarks
1	2	3	4	5	6	7

Annexure - A

Odisha Renewable Energy Development Agency (OREDA)

Commercial BID

Financial offer for Supply, transportation, civil foundation works, & successful installation and commissioning of 10 nos 80 m tall tubular wind monitoring mast in all respect at the selected sites in Odisha.

S. No.	Description	Qty. (No.)	Unit Rate (Rs.)	Total Cost (Rs.)
1	Supply of fully hot dip galvanized 80 meter tall tubular tilt up wind mast complete set with standard mast segments, guy wires set, turn buckles, thimbles, allied hardware, foundation plate/bolts, central hinge with all related accessories and hardware etc complete set including complete gin pole set with its all required allied hardwares etc. complete as per standard design and drawing provided by the bidder along with the copy of vetted design attested by competent authority.	1 Set		
2.	Transportation:-Universal price for transportation of 80 m tall tubular tilt up mast complete set with gin pole and required accessories to any site anywhere in Odisha.	Per site		
3.	Providing and casting of civil foundation work for guy wire anchors including tirror/winch foundations with 1:1.5:3 R.C.C. combination suitable w.r.t. soil strata of the site as per vetted standard foundation design drawing and specifications provided by the bidder.	1 Set		
4.	Providing and fixing of required galvanized sensor booms & brackets for fixing of anemometers at 80 m, 78.5 m, 50 m and 20 m levels and for wind vanes at 80 m and 50 m level, temperature sensor at 10 m level and radiation sensor at 3 m level as per vetted standard design drawing and specifications provided by the bidder.	1Sets		
6.	Providing and fixing of standard size Weather proof heavy duty Housing box of fully galvanized with godrej cam lock provision for data logger safety with two nos of universal locking system.	1 No		
7.	Providing and fixing of full copper lightning arrestor kit for anemometers at 80 m, 78.5 m, 50 m and 20 m levels, for wind vanes at 80 m and 50 m level, temperature sensor at 10 m level and radiation sensor at 3 m level with complete earthing kit, 2 nos of 14	1 Set		

	mm dia spike rods, one no for spike rod in continuity in 12 gauge solid copper wire with 14 mm solid copper rod dia x length of copper rod 900 mm copper rod at the end as per vetted standard design and drawing provided by the bidder.			
8.	Providing and fixing of sufficient length copper wire of 5 core x 0.5 sq.mm (7/0.3 mm tinned copper cable, ATC conductor, LDP insulated in 5 diff. colours laid up together in aluminium miller shielded with 0.5 sq.mm ATC drain wire with gray PVC outer shield for anemometers at 80 m, 78.5 m, 50 m and 20 m levels, for wind vanes at 80 m and 50 m level, temperature sensor at 10 m level and radiation sensor at 3 m level anemometry.	1 Set		
9.	Successful erection and commissioning of 80 m tall tubular tilt up mast in all respect as per standard procedure.	1 Set		
10.	Insurance of the individual 80 m height wind monitoring stations for two years from the date of commissioning of 80 m mast at site.	Per station		
	Total cost for one station Rs.			
1	Lowering and hauling up of the mast for rectification of defect during the course of data collection			

Note: - 1. Above offers should be inclusive of VAT, all other taxes, duties, Excise duty, and transportation of material at site anywhere in Odisha.

2. Transportation:- Including universal transportation to the selected site (list enclosed) in Odisha.

3. **All columns of Annexure A must be filled by bidder otherwise it will lead to rejection of the tender**

Seal of supplier

Authorized
Signatory

Place :

Name :

Date:

Designation :