

KARNATAKA POWER CORPORATION LTD
(Raichur Thermal Power Station)



TENDER DOCUMENT

Name of the work: **Retrofitting Air drier control panel - Unit-7 at RTPS.**

EXECUTIVE ENGINEER (LT-2)
KARNATAKA POWER CORPORATION LTD
RAICHUR THERMAL POWER STATION
SHAKTINAGAR – 584 170
KARNATAKA
M: 9449596532

KARNATAKA POWER CORPORATION LIMITED
(Raichur Thermal Power Station)

TENDER NOTIFICATION NO.: EELT-2/U#5/Air drier/

DATED: .12.2017

SUMMARY SHEET

1. Name of the work: **Retrofitting Air drier control panel- Unit-7 at RTPS.**
2. Contents of the Specification :a) Section I- General terms and Conditions
b) Section II-Scope of work.
c) Section III- Schedule-B
3. Officer to whom tender shall be addressed : Two copies with all enclosures to
The Executive Engineer (LT)-2
Karnataka Power Corporation Ltd.,
Raichur Thermal Power Station
SHAKTINAGAR - 584 170
KARNATAKA
4. Superscription required on the tender cover : a) Tender Notification No.
b) Certificate of payment of EMD
c) Name of work
d) Tender Valid for 90 days from the date of opening
e) Corporation payment terms accepted
5. Last date and time of receipt of tender : **17-01-2018 @ 16:00 Hrs**
6. Date and time of opening of tender : **17-01-2018 @ 16:30 Hrs**
7. Tender document send to : **Office of the
Executive Engineer (LT-2)
Karnataka Power Corporation Ltd.,
Raichur Thermal Power Station
SHAKTINAGAR - 584 170**
8. Period of completion of work : For Supply:- Four (4) months from the date of work order.
For Erection:- One week from the date of handing over of site.
9. Compulsory EMD to be paid unless otherwise exempt : Rs.12,500/- in the form of DD
10. Compulsory security Deposit : 5 % of the Contract value

EXECUTIVE ENGINEER (LT-2)

Bidder signature

ELIGIBILITY CRITERIA (PQR CONDITIONS) :

The intending bidder shall satisfy the following minimum qualifying requirements and produce documentary evidences as indicated below, the fulfilment of which is a pre-requisite for issue of tender document.

Name of Work: Retrofitting Air drier control panel- Unit-7 at RTPS.

1. The bidder shall be a manufacturer/service provider of reputed make Air drier control panel or an Agency having executed the work of supply, erection & commissioning of Air drier control panel with Heater bank of capacity not less than 30 KW.
2. The bidder should furnish at least one work order/work done certificate for having carried out similar work in preceding 5 years issued by an officer of the rank of Chief Engineer or head of the project in any power plant/Major industries/Utilities.
3. The bidder should have minimum Annual turnover of Rs.5.0 Lakhs in any one of the preceding three years and the bidder shall furnish Audited Balance sheet and Profit & Loss account statement duly certified by chartered Accountant.
4. The bidder shall also enclose the copies of the following statutory documents.
 - i. Income tax PAN.
 - II. GST registration certificate
 - III. Independent PF code registration.

Bidder signature

RAICHUR THERMAL POWER STATION



NAME OF WORK: **Retrofitting Air drier control panel- Unit-7 at RTPS.**

(SECTION I)

GENERAL TERMS & CONDITIONS

FROM:

OFFICE OF THE
EXECUTIVE ENGINEER (LT-2)
KARNATAKA POWER CORPORATION LTD.,
RAICHUR THERMAL POWER STATION
SHAKTHINAGAR- 584170

Bidder signature

KARNATAKA POWER CORPORATION LIMITED
RAICHUR THERMAL POWER STATION
SHAKTINAGAR - 584 170

SECTION-I
GENERAL TERMS AND CONDITIONS

- 1) Tenders from the bidders who do not have an experience in executing similar works shall not be considered. The details of past experience shall be furnished in the schedule enclosed to the tender documents. However, the decision of the undersigned shall be final and binding on all.
- 2) Each tenderer shall give clearly in the tender full postal address, phone & cell numbers and fax number if any for speedy communication during contract.
- 3) If the quantity of the contract is increased or decreased after awarding the contract, the Earnest Money Deposit paid by the bidder shall be proportionately increased or decreased.
- 4) Tenders sent by post shall reach the undersigned before the time and date stipulated in the tender. The Postal delays, if any, shall not be entertained on any account.
- 5) Tenders shall be opened in the office of the Executive Engineer (LT)-2 in the presence of such tenderers or their authorised representatives who choose to be present on the date fixed.
- 6) Tenders shall be submitted in duplicate copies of schedule prices in the prescribed form in a sealed cover addressed to the Executive Engineer (LT-2) super scribing the following on the cover.
 - a) Tender Notification No.
 - b) Name of the work.
 - c) EMD particulars.
- 7) The tenders and all accompanying documents shall be signed by the tenderer or his authorised representative only with firms stamp/seal, where ever signature is asked for.
- 8) EMD:
 - a) Along with the tender, each tender shall be accompanied with EMD amounting to Rs.12,500/- in the form of the TDR/FDR/CDR/Demand Draft drawn in favour of " Deputy General Manager (Finance)-Thermal, Karnataka Power Corporation Ltd., Raichur Thermal Power Station, Shaktinagar – 584 170 or in the form of Bank Guarantee issued by any Schedule Bank or Nationalised Bank in the prescribed proforma. Tenders submitted without EMD shall be rejected.
 - b) The bidders who have registered in KPCL should also furnish EMD, without which the offer will not be considered.
- 9) The EMD of the rejected tenderers shall be returned only after finalisation of the tender. The EMD shall carry no interest. The successful tenderer shall attend the office of the Executive Engineer (LT-2) on the date's fixed by intimation for executing the agreement etc. Failure to do this will entail forfeiture of EMD.
- 10) SECURITY DEPOSIT: The successful tenderer shall furnish DD/FDR/BG towards security deposit amounting to 5 % of the contract value at the time of entering into an agreement. The security deposit so collected does not bear any interest. The same shall be valid for the entire contact period.
- 11) Security deposit shall be returned only after satisfactory completion of work and after expiry of the contract period or after one month after final bill, whichever is later.
- 12) The tender submitted shall remain valid for acceptance for a period of Ninety (90) days from the date of opening of tender. If any tenderer withdraws his tender before the said period or makes any modification in terms and conditions of the tender, which are not acceptable to the Corporation, the EMD furnished shall be forfeited to the Corporation.
- 13) The rates offered shall be firm and no variation shall be allowed in cost/labour/materials or any other factors affecting process or services.
- 14) The quantities mentioned in the tender are approximate and are liable to be increased or decreased. Therefore, the rate quoted shall be firm.

Bidder signature

- 15) Acceptance of the lowest or any tender is not binding on the Corporation. The Corporation reserves the right to reject any or all tenders without assigning any reason.
- 16) The submission of tender by tenderer implies that he has read the contract schedules, conditions of contract and has understood the scope and specifications of the work to be done and availability of the quantities of the materials and laborers required.
- 17) The successful tenderer must produce income tax clearance certificate before the work is entrusted to him.
- 18) The tenderer shall furnish a certificate of financial ability from a nationalized bank, if required by the corporation, before execution of the agreement.
- 19) INCOME TAX: At applicable rates and surcharges if any deducted from each bill.
- 20) No part of the contract shall be sublet without written permission of Executive Engineer (LT-2), Raichur Thermal Power Station, nor shall any transfer be made by power of attorney.
- 21) Tenderers shall, if required, present satisfactory evidence that they have been regularly engaging in such type of works and they are fully prepared with necessary capital, tools, plants etc., to begin the work properly and also to conduct as per the Karnataka State detailed standard specifications and other conditions specified in the schedule in the event of their tender being considered.
- 22) The tenderer shall make his own arrangements for providing all facilities like boarding, transport etc., for his workers.
- 23) **TERMS OF PAYMENT:** 70% of ex-works price Plus 100% taxes and duties, freight & insurance after receipt of materials at site. Balance 30% of supply portion plus 100% erection charges after completion of work.
- 24) The bidder shall remit the installment of PF (Employees and employers contribution) in respect of his work men on his work to the PF authorities through his independent PF code and submit the proof of payment to the Executive Engineer (LT-2).
- 25) The PF installment remitted in respect of works shall be in the names/name of labour's, who are engaged for the said works only.
- 26) No telegraphic offers will be considered.
- 27) **Commencement and completion of work:** The starting time and completion time are the essence of the tender. As the time bound program is firmly committed, the starting time and completion time should be strictly adhered to. It will not be possible to grant extension in completion time except under extra ordinary circumstances which will be decided by the Chief Engineer (O&M).The bidder shall ensure completion of the job in all respects within the specified time from the date of handing over the equipments.
- 28) The tenderer shall pay compensation to workmen working under him for any injury caused during the execution of work as per "workmen compensation act" in force, failing which the amount will be deducted from his bills and paid to injured workmen.
- 29) PENALTY: Penalty for delay in completion of supply / services shall be deducted at ½ % per week subject to maximum limit of 10% of the contract value.
- 30) In case of delays on Bidder's part at any stage during the schedule period or after, the Corporation shall have the option of ensuring completion of the job by any other means at its disposal and charges on this account shall be recovered from the Bidder's Bills or security deposit available with Corporation.
- 31) The Corporation reserves the right to recruit the laborers or employ alternate Agency in case sufficient number of laborers for completing the required works in time is not engaged by the Bidder and recover the cost of such recruitment or actual charges incurred for employing alternate Agency from the Bills of the Bidder besides enforcing penal clauses of the contract.
- 32) The Bidder shall execute any emergent additional work as directed by the Engineer, failing which the Corporation reserves the right to engage any other agency to carry out such work at the risk and cost of the Bidder.
- 33) In case of failure to abide by Statutory rules / regulations, the Corporation is at liberty to recover such amounts as required from the Bills or security deposits of the Bidder.
- 34) The rates shall be quoted in rupees and paisa and shall be written both in figures and words. In case of variation, the lower of the two shall be taken as valid. This Schedule shall be written legibly and free from corrections/over-writings.

Bidder signature

- 35) The Bidder shall, if directed by the Executive Engineer or concerned group engineer, dismiss or discontinue from the work any person employed for misconduct or incompetence. Such person shall not be employed again on the works without the written permission of the Executive Engineer.
- 36) The period of contract shall be as per work order.
- 37) Approach/Access to be provided by the concerned agency only.
- 38) Necessary work permit/line clear in writing from the control room or authorized person to be taken through KPCL Engineers before starting work on daily basis.
- 39) In the event of death or insolvency or insanity or Imprisonment of the Bidder, the Corporation can terminate the contract by a Notice in writing pasted at the place of work.
- 40) If any additional information, not specifically covered in this specification, is required the Bidder shall contact the Executive Engineer in charge but it must be clearly understood that the tenderer is deemed to have accepted all the terms and conditions of the specification unless specifically mentioned in his offer. Bills shall be prepared for every three month once.
- 41) If the Bidder fails to comply with the terms of the agreement, the contract shall be cancelled by the Corporation and thereafter security deposit and any other amounts due to the Bidder shall be forfeited and adjusted suitably. The contract shall be cancelled within three days' notice without any further legal bindings.
- 42) The Bidder shall note that the labourers engaged by him will be working in the vicinity of running equipment's and therefore, he shall give proper instructions to be cautious to all the workers under his control. The Corporation shall not be responsible for any accident that may occur and for any compensation that may arise out of the accident.
- 43) No bidder shall employ any person who is under the Age of 14 years.
- 44) All general T&P shall be brought by the Bidder.
- 45) All Consumables such as Cora cloth, cheese cloth, kerosene, petrol etc., shall be supplied by the corporation.
- 46) All spares required to be replaced and special T&P required will be supplied by the Corporation free of cost. The T&P shall be returned in good condition after completion of the works. The cost of any damage or loss to the special T&P shall be recovered from the Bidder.
- 47) All the Bills shall be prepared in prescribed printed or typed forms at the rates specified in the contract. The firm shall submit the bills after completion of the works or running account bills month wise on the firm's letter head with reference number and enclosing all relevant documents as per contract.
- 48) In case of tender by Partners, any change in the constitution of a Firm shall be notified forthwith by the Bidder to the Executive Engineer.
- 49) The Bidder shall obtain individual passes to the labourers from the concerned Corporation Authorities and direct labourers to produce them whenever required for verification
- 50) No advance shall be paid for this work. It is the responsibility of the Bidder to mobilize resources of his own for executing the work.
- 51) No compensation will be paid by the corporation if any Accidents occur to his workers while carrying out the work. Insurance against all types of risks for the bidders' Workers during the overhauling period/execution of the works will have to be arranged by the bidder at his own cost.
- 52) The successful tenderer and all persons employed by him on the site in or around the execution of the work shall conform in all respects with the provisions of all acts and all Orders and regulations made by the competent authority that shall be applicable to the works or any temporary works and Binding upon the bidder or persons employed as aforesaid and in particular, but without prejudice to the generating of the foregoing such matters as concerning the safety, health or Welfare of persons on the site.
- 53) The bidder shall not be entitled for idle labour charges under any circumstances.
- 54) All the Skilled, semi-skilled & unskilled labour will have to be arranged by the bidder himself at his own cost for the satisfactory completion of the work.
- 55) The tenderer shall keep the site reasonably clean and remove from the site and dispose all waste materials and rubbish as accumulated and as directed and shall carry out any measures required to comply with health and hygienic regulations. On Completion of the work the site shall be left clean and tidy to the satisfaction of the field engineers.

Bidder signature

- 56) The work being carried out by the bidder will be supervised and inspected by the concerned corporation engineers.
- 57) In case of any dispute between the bidder and the Executive Engineer/Superintending Engineer, the decision of the Chief Engineer (O&M) will be final.
- 58) In case of doubt or clarification or ambiguity or ruling, orders Of the Chief Engineer (O&M) will be final and binding on the Bidder.
- 59) The overhauling/electrical works will have to be completed within the Scheduled period.
- 60) All the connected minor works which are necessary for completing the main work are to be carried out by the bidder and no extra Claims will be admitted.
- 61) The tenderer should be familiar with general rules and regulations pertaining to the contract prescribed by the corporation from time to time and should abide by the same.
- 62) If any additional information, not specifically covered in this specification, is required the bidder shall contact the Executive Engineer in charge, but it must be clearly understood that the tenderer is deemed to have accepted all the terms and conditions of the specification unless specifically mentioned in his offer.
- 63) STATUTORY REQUIREMENTS: The agency should produce independent PF code documentary evidence, IT PAN, GSTIN Number, WCT exemption/ composition certificate, labour license copy etc.
- 64) Deduction of building & construction workers welfare cess at 1 % from the bills under statutory levies.
- 65) PF component limited to 12.36 % for labour portion of work.
- 66) Agency should quote their rates inclusive of PF, service tax and all taxes of GOK and GOI, KPCL recovers statutory recoveries of IT, WCT, cess etc. at applicable rates.

EXECUTIVE ENGINEER (LT-2)
RAICHUR THERMAL POWER STATION
KARNATAKA POWER CORPORATION LTD.,
SHAKTHINAGAR - 584170

Bidder signature

**KARNATAKA POWER CORPORATION LIMITED
RAICHUR THERMAL POWER STATION**

ANNEXURE-III

SAFETY REQUIREMENTS TO BE OBSERVED BY THE CONTRACTORS ON KPCL PREMISES

The following instructions must be read carefully by the contractor. No variation is allowed, whatever may be the pressure for speedy completion of the works proper attention to the safety of the persons must at all times be ensured.

GENERAL SAFETY REQUIREMENTS:

1. The contractor's employees shall be at all times under proper supervision when working on RTPS premises.
2. The contractor must ensure that all equipment's brought to site are in good conditions and are used erected safely. Personal protective clothing and equipment's must be ensured.
3. The contractors must keep their site of work clean and tidy and clear of obstructions. All floors and walk way must be kept clear off materials in order that a secure footing can be maintained. Suitable precautions are to be taken so as not to pollute the atmosphere, ground or water.
4. If it is necessary to remove any type of floor section, permission must be obtained from the concerned Engineer substantial, secure barriers must be erected around any hole. Warning notices must be posted by day and suitable lamps displayed during hours of darkness. All floor sections must be replaced and secured as soon as practicable.
5. The contractor must ensure proper scaffolding and safe means of access to work place wherever necessary.
6. Only properly tested lifting tackles and machines must be used. They must be kept under strict control and not be left lying about on site. The safe working load must not be exceeded. Knotted cloths and lashings are be avoided to lift the equipment. While lifting the area immediately below the operation and adjustment to winching equipment's must be suitably barbered.
7. Whenever electrical supply is made available by KPCL the contractor should provide and maintain the whole of the installation on the local side. All the portable tools, hand lamps must be connected to the system by means of plugs and sockets of a good quality. The cable used must be in good condition. All joints must be electrically and mechanically sound. Portable hand lamps must be operated not more than 24 volts with a suitable transformer.
8. Supply to welding equipment must be specially arranged. The connections, must be sufficient in size for the duly to be performed, properly protected for mechanical damage.
9. The work place must be kept clear of flammable material, Screens or mats must be used to prevent hot metals below or on to adjacent equipment / personnel.

Portable extinguishers must be kept near welding or gas cutting work place. Gas cylinder valve keys shall be readily available at the cylinder for speedy closure in case of fire. As far as possible use portable trolleys for gas cylinders.

Bidder signature

10. All personnel must wear protective equipment's and clothing suitable to the tasks and location in which they are employed. Safety helmets, respiratory protection equipment's like dust mask, eye protection devices like goggles and noise masks like earplugs must be used wherever necessary.
11. Care must be taken while using any equipment's that naked flames like grinding, gas cutting, welding and extreme care must be taken to avoid occurrence of fire.
12. All the waste materials like cotton waste, loose insulation, scrap materials, flammable waste materials like etc., shall be removed completely from the work place after completion of the work.
13. Workers working at a height, which is unsafe, shall wear safety belts with its hook attached to a permanent structure.
14. It is the responsibility of the contractor to provide necessary safety equipment's and to ensure usage of the same by the workers wherever necessary.
15. Contractor shall ensure environmental related awareness which shall be given to his employees.
16. During the activities of any metallic scrap and waste generated should be kept in sacks/identified place as per instruction of engineer in charge.
17. Prompt corrective action can be taken by the contractor for any of his activities which may lead to environmental impact.

EXECUTIVE ENGINEER (LT-2)

Bidder signature

**KARNATAKA POWER CORPORATION LTD.
(RAICHUR THERMAL POWER STATION)**

TENDER FORM

TENDER NOTIFICATION NO:
(To be filled by the tenderer)

Name of the work: Retrofitting Air drier control panel- Unit-7 at RTPS.

To,
THE EXECUTIVE ENGINEER (LT-2)
Raichur Thermal Power Station
Karnataka Power Corporation Ltd.,
Shakthinagar-584170
Raichur district
Karnataka State

Dear Sir,

Having examined the above notification, together with the accompanying general conditions there in referred to, we hereby offer to provide and carryout the work described in the said tender notification according to the general conditions at the rates entered in the attached contract schedule of prices.

1. We hereby undertake the work specified in the schedule with the time specified in the tender notification.
2. We hereby guarantee the satisfactory fulfillment of the supply and erection contract.
3. We agree to pay the EMD & SD as per clause no.8 & 10 of the general conditions.
4. We agree with all clauses mentioned in the tender notification and with the general conditions of contract prescribed by the corporation.

Yours faithfully

Signature:

Name:

Date:

Bidder signature

DECLARATION

I/We have studied the site conditions, equipments conditions & approachness to the equipments, labour conditions and read tender document and related matters carefully and deligently and that I/We have submitted the tender, having studied, understood and accepted the full implications of the contract agreement.

The requirements of the tender agreement as stated above will be fulfilled by me/us to the satisfaction of the Engineer.

Signature of the tenderer
With seal

Bidder signature

STATEMENT OF PREVIOUS EXPERIENCES

Sl. No.	Name of the firm for whom work was done	Description of work done	month & year

NOTE: Tenders with out valid experience shall be liable to be rejected

Name of the firm:

Signature of Bidder:

Date:

Seal of the company:

Evidence of Experience
Certificates enclosed:

Bidder signature

**KARNATAKA POWER CORPORATION LTD
(Raichur Thermal Power Station)**

SCHEDULE -A

Name of the work :- Retrofitting Air drier control panel- Unit-7 at RTPS.

The following materials are covered under KPCL scope of work

Sl.NO	DESCRIPTION OF MATERIAL SUPPLIED BY THE DEPARTMENT	QTY	Remarks
1	MS channels	As required	
2	Heater power cables	As required	
3	Glands and Lugs	As required	
4	Gas and welding set	As required	

Bidder signature

KARNATAKA POWER CORPORATION LIMITED
RAICHUR THERMAL POWER STATION
SHAKTINAGAR-584170

NAME OF WORK: Retrofitting Air drier control panel- Unit-7 at RTPS.

SECTION-III
(Schedule B)

Division: EE (LT-2)

Sl No	Description of work	Unit	Qty	Rate	Amount in Rs.
1	Control Panel fully automatic as per requirement with CAM timer visible from outside with a flap type door	Nos.	1		
2	RTD-PT 100 with Thermowel SS-304, 3 wire type for heater Tempr. Controller	Nos.	1		
3	RTD-PT 100 with Thermowel SS-304, 3 wire type for moisture separator	Nos.	1		
4	Limit switch – SIEMENS make 1NO+1NC for changeover	Nos.	1		
5	Pressure switch	Nos.	1		
6	Air Drier Heater bundle with flange, 3 ph., 415V AC, 50Hz, Heater capacity: 31.5 kw	Nos.	1		
7	Total Amount materials (Sl. No. 1 to 6)				
8	Packing Freight & Transit Insurance up to Destination (Breakup value may be furnished separately)				
9	Total for Supply portion (Sl.No.7+8)				
10	Erection, wiring, testing & commissioning of control panel & heaters at site	Lump sum	Lump sum		
11	GST Sl. No 7				
12	GST Sl no 10				
13	Grand total for Supply & Services (Sl. No. 9+10+11+12)				

In words:-

Bidder Seal with Signature

Bidder signature

SECTION –II

SCOPE OF WORK

Name of Works: - Retrofitting Air drier control panel- Unit-7 at RTPS.

Note: Please visit the site, study the existing control panel working conditions, works involved, safety aspects and requirements, conditions of the equipment and quote accordingly.

The detailed scope of work & technical specifications is as follows:

1. Design, Manufacture, Supply, erection, testing and Commissioning of Air drier control panel fully automatic as per our requirement with cam timer visible from outside with a flap type door for observation and setting.
2. The sheet metal of the control panel to be fabricated shall be of 16 gauge as per IS/IEC applicable standards & painted with Siemens gray powder coated. All components shall be mounted on the Din rail channel of panel plate.
3. All bus bars/cables shall be of copper with 100% over rating & also all contactors shall be Siemens / L&T make with 100% over rating.
4. The Control panel shall be fabricated on the MS channel frame of suitable size as per standards for mounting at site.
5. The commissioning portion involves the control panel mounting, RTD sensor fixing, Heater bank mounting, Four way solenoid valve fixing, limit switch mounting & its control wiring etc. Whereas providing incoming power cables to the control panel is in KPCL scope.
6. In control panel following components shall be used

Switch Fuse unit (100A)	-L&T make/Siemens make
Power contactors	-Siemens/L&T make with suitable capacity
Auxiliary contactors	-Siemens/L&T make
Switches like ON/OFF etc.	-Kayce make/Sulzer make
Indicating lamps	-LED type
CAM timer 110V AC	-AG Engg
Push buttons	-Teknic make
Bistable relay 2C/O 110VAC-	AG Engg

Note: - Before manufacturing Control Panel, Circuit diagram & Bill of materials shall be submitted to KPCL.

EE(LT-2)

Bidder signature