



KARNATAKA POWER CORPORATION LIMITED
(A Government of Karnataka Enterprise)

ABSTRACT BID NOTIFICATION
(TWO COVER SYSTEM)
(Through e-Procurement Portal Only)

TENDER NOTIFICATION NO. KPCL/2019-20/PS/WORK_INDENT9241/Call-2 Dtd. 20.03.2020

KARNATAKA POWER CORPORATION LIMITED invites Bids from the eligible bidders having adequate experience, for the following work through e-procurement portal of Govt. of Karnataka www.eproc.karnataka.gov.in

“Design, Engineering, Manufacturing, Quality surveillance, Testing at manufacture’s works, Packing, Supply, Delivery F.O.R Bidadi site, Erection, Testing, Commissioning and conducting performance guarantee tests with all civil, structural, mechanical, electrical, control & instrumentation works including Two years of Operation and Maintenance of 11.5MW Waste to Energy Plant at Bidadi Ramanagar dist. BENGALURU-562109.”

The brief bid notification containing the pre-qualifying criteria for the bidders, EMD, Calendar of bid activities and other details can be accessed from e-procurement portal.

Those who have not registered in e-procurement portal www.eproc.karnataka.gov.in may do so in order to participate in the bid.

Further details can be had from:

Chief Engineer (O&M) YCCPP,
Karnataka Power Corporation Ltd.,
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KARNATAKA POWER CORPORATION LIMITED
(A Government of Karnataka Enterprise)
BRIEF BID NOTIFICATION
(TWO COVER SYSTEM)
(Through e-Procurement Portal Only)

TENDER NOTIFICATION NO. KPCL/2019-20/PS/WORK_INDENT9241/Call-2 Dtd. 20.03.2020

KARNATAKA POWER CORPORATION LIMITED invites Bids from the eligible bidders having adequate experience, for the following brief scope of work through e-procurement portal of Govt of Karnataka www.eproc.karnataka.gov.in

BRIEF SCOPE OF WORK:

RDF Handling	RDF receiving, de-baling, Refuse handling (cranes, hopper. and chutes), storage, Leachate handling and treatment.
Combustion System	Incineration units, Refractory, insulation, ports and doors, Hydraulic system, Primary and secondary air, air heater, ducting, Secondary Fuel firing system(HSD/LDO)
Boiler	Boiler, Boiler structure, walkway and access, Soot blowers
Air pollution control	De-NOx system, Lime system, Activated carbon system, Flue gas treatment system (cooling, ducting, etc.), Bag house, ID fan
Ash system	Bottom ash treatment system (extractor, conveying, etc.), Bottom ash crane, Fly ash conveying system, silos, Fly ash treatment system
Water and steam	Make up water system, Chemical dosing and conditioning, Feed water system, Steam distribution and condensate system, Equipment cooling water system, Auxiliary pumps, Piping, valves and associated equipment & Insulation works.
Power generation	Turbo generator, Air cooled Condenser
Electrical	High voltage electrical system, transformer, Low voltage electrical distribution system, Emergency power supply
Control and monitoring	Control and monitoring system, Continuous emission monitoring system (CEMS), Closed circuit television (CCTV)
Civil & Electricals works	Civil and architectural works, Roads & drains, Chimney, Lift, Rooms, Heating ventilation & Air conditioning (HVAC), Lighting and electric receptacles, Fire alarm and firefighting system, Telephone and communication equipment, Plant model and visitor facilities, Miscellaneous works at plant area and outside building.
Other systems and facilities	Leachate Treatment plant and Effluent Treatment plant, Compressed air system (service and instrument air), odour prevention, Maintenance hoists and cranes, Spare parts, Documentation, drawings and manuals, Workshops, Laboratory

Design, Engineering, Manufacturing, Quality surveillance, Testing at manufacture's works, Packing, Supply, Delivery F.O.R Bidadi site, Erection, Testing, Commissioning and conducting performance guarantee tests with all civil, structural, mechanical, electrical, control & instrumentation works, insurance towards transit risk/ storage/ intra-site transportation for erection including Two years of Operation and Maintenance of 11.5 MW Waste to Energy Project, on the basis of single point responsibility, completely covering the

following activities and services in respect of all the equipment & works specified and covered under the specifications:

- a. Basic Engineering of the plant including preparation of Plant Definition Manuals;
- b. Detailed design of all the equipment and equipment system(s) including civil, structure steel works.
- c. Providing engineering drawings, equipment sizing & performance data, instruction manuals, as built drawings and other information;
- d. Compliance with statutory requirements and obtaining clearances from statutory authorities, wherever required;
- e. Complete manufacturing including shop testing/type testing;
- f. No structure exists in the area earmarked for the plant. Cutting of existing shrubs and trees, disposal to the designated place within the Site premises, Site levelling of total plant area as per plot plan is in Bidder's scope.
- g. Complete Civil, Structural and Architectural works, including survey, providing construction material and equipment, construction water supply, construction / permanent roads, drainage arrangements, fencing /boundary wall around the land boundary.
- h. The proposed plant being established is near to the Bengaluru city. Hence, the contractor shall ensure that the plant is constructed aesthetically modern with fully covered facades.
- i. Packing and transportation from the manufacturer's works to the site including logistic studies, customs clearance & port clearance, port charges, if any.
- j. Receipt, storage, preservation, handling and conservation of equipment at the site;
- k. Fabrication, pre-assembly, if any, erection, testing, commissioning and completion of facilities including putting into satisfactory operation all the equipment including successful completion of initial operation;
- l. Performance and guarantee tests after successful completion of initial operation;
- m. Furnishing of spares on FOR site basis.
- n. Reconciliation with customs authorities, as required.
- o. Insurance and other requirements for the complete EPC package in accordance with the provisions of general conditions of contract of the bidding document.

The Contractor shall be responsible for providing all material, equipment and service, which are required to fulfill the intent of ensuring operability, maintainability, reliability and complete safety of the complete work covered under this specification, irrespective of whether it has been specifically listed herein or not.

Note: Scope of work given is only indicative. Detailed scope have been described in the bid document which is binding on the bidders. Any other item not covered herein but essential for successful installation and commissioning of the system and integration of the system for successful running of the plant to achieve the targeted generation shall be included and binding by the bidder.

1.0 INSTRUCTIONS REGARDING E-PROCUREMENT:

- a. The bid is to be submitted in the GoK e-procurement portal www.eproc.karnataka.gov.in system only.

- b. Bidders, who have not registered in e-procurement portal, may do so by registering through website www.eproc.karnataka.gov.in
- c. For submission of the bids, the bidders are required to have Digital Signature Certificate (DSC) from one of the authorized Certifying Authorities as detailed in the website.
- d. Aspiring bidders who have not obtained the User ID and Password for participating in e-tendering may obtain the same by registering in the website. The bidder once registered can participate in any of the departmental tenders.
- e. The bidders can access and download bid documents on the website, fill them and submit the completed bid documents into electronic tender on the website itself within the stipulated date & time. The blank bid documents can be accessed through e-procurement portal website www.eproc.karnataka.gov.in
- f. Bidders shall attach scanned copies of all the certificates pertaining to the pre-qualification requirement as mentioned under “Minimum Pre-Qualification Requirements” clause. Whenever required, bidders shall furnish the original certificates to the KPCL authorities, failing which, the bidder will be disqualified.
- g. Conditional bids, incomplete bids, bids without EMD, bids not properly uploaded and bids submitted late shall be rejected.
- h. Bidders shall refrain from altering/modifying/revising the price bids after the date and time fixed for submission of bids in the calendar of events even though if it is accepted by the portal. Bids submitted within the scheduled date and time shall only be eligible for further processing of the bids. Any bid submitted after the date and time specified shall be rejected even if it is accepted by the e-portal. Date and time stamp of the e-portal system shall be final in deciding the time and date of submission of bid. Decision of the Corporation in this regard is final.
- i. KPCL shall not be held liable for any delays due to system failure beyond its control. Even though the system will attempt to notify the bidders of any bid updates, KPCL shall not be liable for any information not received by the bidder. It is the bidders’ responsibility to verify the website for the latest information related to the tender. The bidder is required to ensure browser compatibility of the computer well in advance to the last date and time for receipt of the tenders. The corporation shall not be responsible for non-accessibility of e-procurement portal due to Internet connectivity issues and technical glitches.

2.0 MINIMUM PRE-QUALIFYING REQUIREMENTS:

(a) TECHNICAL QUALIFYING CRITERIA:

- i. The Bidder must have designed, engineered, manufactured/ get manufactured, supplied, erected, commissioned at least one Project of Waste to Energy plant of minimum 5MW capacity with municipal solid waste/ RDF based on Grate Combustion system (Incineration technology) anywhere in the world. The same shall be in successful operation for a period of not less than Two (02) years in the preceding Five years at the time of bid submission.

OR

The bidder must have designed, engineered, supplied, erected/ supervised erection, commissioned/ supervised commissioning of atleast one Grate, Heat recovery system and Flue gas treatment system for any waste to energy plant of minimum 5MW capacity with municipal solid waste/RDF, anywhere in the world, and the Waste to Energy plant should have been successfully commissioned (with or without

consortium). The same shall be in successful operation for a period of not less than Two (02) years in the preceding Five years at the time of bid submission.

OR

The bidder must have developed at least one Project of waste to energy of minimum 5MW capacity with municipal solid waste/ RDF based on Grate Combustion system (Incineration technology) anywhere in the world and the same shall be in successful operation for a period of not less than Two (02) years in the preceding Five years at the time of bid submission.

- ii. In case of consortium, the Bidder shall furnish Consortium Agreement executed with collaborator along with Techno- commercial Bid. In which the executants of Consortium shall be jointly and severally liable to the corporation for successful performance of contract.

(b) FINANCIAL QUALIFYING CRITERIA:

- i. Annual turnover of the bidder shall not be less than INR 210 Crores in any two of the preceding five financial years. The single entity or any one member of the consortium or all the constortium partner combinedly meet the financial criteria
- ii. For financial qualifying requirement, Copies of audited P&L Account/ annual report/ audited balance sheet duly certified by the Chartered Accountant to establish annual turnover requirement stipulated above shall be submitted.
- iii. Bidder qualifying the Technical criteria and not fulfilling the financial criteria, such bidder can claim their parent company's financial strength to meet the Financial criteria. However, bidder cannot claim the parent company technical qualification for submitting this bid. Also, such bidder shall submit the financial documents of parent company along with Bidder's financial documents.

The intending bidder shall fulfill all the qualifying requirements as indicated in 2.0(a) to (b) above.

3.0 Following documentary evidence for the minimum Pre-qualifying requirements shall be uploaded:

- 3.1 The intending bidder in support of minimum pre-qualifying requirements shall furnish completion certificate and satisfactory performance certificates duly signed by the competent authority for having undertaken the similar work in respect of para Sl.No.2 (a) above.
- 3.2 Undertaking in the form of a notarized affidavit declaring on the following during the past three years:
 - (a) Their EMD has not been forfeited.
 - (b) None of their contracts have been terminated/ foreclosed on account of their default in KPCL or elsewhere.
 - (c) They have not been blacklisted/ subject to procedure initiated for blacklisting for participation in tender issued by KPCL or government or any other utility in India or elsewhere and would not attract terms and conditions relating to rejection of bids.
- 3.3 For financial qualifying requirement, annual turnover certificate as stipulated in 2(b) above shall be submitted.

3.4 Rs.1.00 lakh to be remitted in e-portal and scanned copy of BG/DD for the balance amount towards EMD.

3.5 The qualifying requirement as claimed by the Bidder(s) should be filled up in the format enclosed in Tender Document. Non-submission of this format will make the bid liable for rejection.

4.0 Consequent to implementation of GST, the following shall be furnished by the bidder:

4.1 Name, address along with the state name and GSTIN of the supplier.

4.2 Name, address along with the State Name and GSTIN or UIN.

4.3 Name and address of the recipient and the address of delivery along with the name of State and its code, if such recipient is unregistered and where the value of taxable supply is fifty thousand rupees or more.

4.4 Description of goods along with HSN code and services along with the SAC code.

4.5 Applicable GST i.e. CGST and SGST in case of local supply and IGST in case of inter-state supply. Applicable rate of GST also to be mentioned.

5.0 DISQUALIFICATION OF BIDDERS

Bidders whose contracts have been terminated/ foreclosed by KPCL/ Government or other utility in India/elsewhere or whose performance has not been satisfactory while executing the contracts for KPCL/ Government or other utility in India/ elsewhere within the last Three (3) years are liable for disqualification. Bidder shall furnish the notarized undertaking as indicated in Tender Document.

5.1 Notwithstanding anything stated above, KPCL reserves the right to assess the capability and capacity of the bidder to perform the contract, should the circumstances warrant such assessment in the overall interest of the KPCL. If such an assessment calls for rejection of any or all bids, KPCL reserves the right to reject any or all bids.

5.2 Any agency whose performance in the ongoing projects of KPCL is observed to be not satisfactory, such agency shall be liable for rejection.

5.3 Bids with stipulations for settlement of dispute by reference to arbitration shall be liable for rejection. The bids containing conditions whatsoever will be liable for rejection.

5.4 Corporation reserves the right to accept or reject any or all bids. However reasons for rejection will be recorded as per KTPP act.

5.5 Part and incomplete bids/ Telegraphic bids/ bids not accompanied by EMD/ belated bids will not be accepted.

5.6 Bids received from Bidders whose EMD has been Forfeited or contracts have been terminated or foreclosed on account of their Default in KPCL or elsewhere during the past 3 (Three) years will not be considered. The bidder shall give declaration that EMD has not been forfeited and none of his contracts have been terminated / foreclosed on account of their default in KPCL or elsewhere during the past 3 (Three) years.

6.0 Bids duly filled in, shall be submitted through e-procurement portal only. The bids shall be submitted in two COVER format.

- Cover-I shall contain EMD, Technical bid documents to establish qualifying requirements and will be opened first, documents furnished will be scrutinized to determine the bidders meeting qualifying criteria. Bidder shall not enclose price schedule with Cover-I and shall be submitted in Cover-II only.

- Cover-II shall contain only Price Bid. The date of opening of Cover-II will be intimated in advance to those bidders who are qualified.

7.0 Tenders (Cover-I and Cover-II) must be electronically submitted (online through internet) within the date and time published in e-procurement portal. Cover-I of Tender will be opened at prescribed time and date in the e-procurement portal and Opening of Cover-II will be intimated later.

8.0 The following are the Calendar of bid events for two Cover tender system.

No	Event Description	Dates
1.	NIT published date	20.03.2020
2.	Document can be accessed on e-procurement portal	20.03.2020
3.	Last date for seeking clarification by the tenderers	01.04.2020 upto 17.00 hrs.
4.	Pre bid meeting	03.04.2020 at 11.00 hrs
5.	KPCL clarifications to tenderers	08.04.2020
6.	Last date of receipt of completed Tender documents (Cover-I & Cover-II)	21.04.2020 at 16.00 hrs.
7.	Opening of Cover-I	23.04.2020 at 11.00 hrs.
8.	Opening of Cover-II	24.04.2020 at 15:00 hrs.

9.0 BID VALIDITY: The validity of the bid shall be **180 days** from the date of opening of the Technical bid (Cover -I) or extended period.

10.0 Tender Processing Fee

Payment towards tender processing fee as per e-portal can be made through Credit Card, Direct Debit, National Electric Fund Transfer (NEFT), Over the Counter (OTC). Tender processing fee is non-refundable.

11.0 EARNEST MONEY DEPOSIT:

- EMD: Rs 2.10 Crores.** The e-payment shall be made for **Rs 1.00 lakh** (direct debit, credit card & National Electronic Fund Transfer (NEFT) or Over The Counter (OTC) only through ICICI Bank and remaining **Rs.2.09 Crores** either in the form of crossed demand draft in favour of KARNATAKA POWER CORPORATION LIMITED, payable at Bengaluru or Bank Guarantee from a Nationalized/ Scheduled Bank on Rs. 200/- stamp paper as per the KPCL format. The Bank Guarantee submitted towards EMD shall be valid for a period of 210 days from the schedule date of opening of the technical bid (Cover-I). In case, the validity of the Bid is required to be extended, the validity of the BG furnished towards EMD shall be extended up to 30 days beyond such extended bid validity period. The Bank guarantee shall be furnished in the prescribed format. Only on receipt of full EMD of **Rs.2.10 Crores** along with technical bid, Price bid will be opened and considered for evaluation.
- The EMD furnished by the bidders will be forfeited in case the bidder withdraws the offer during the validity or violates any clause stipulated in the bid.

- iii. EMDs of unsuccessful bidders shall be automatically refunded by the e-procurement portal, subsequent to issue of LOI on successful bidder in the e-portal. The EMD will not carry any interest.

12.0 Security Deposit:

The successful bidder has to submit the security deposit of 5% in the form of BG which will not carry any interest towards the EPC cost valid for the period of five years.

For the Operation & maintenance of the plant, performance guarantee of 5% of the O&M cost in the form of BG shall be submitted before commencement of O&M of plant.

13.0 General Conditions:

- i. KPCL Invites tender for establishing WTE plant (Technology Incineration-combustion system)
- ii. Plant capacity: 11.5 MW. KPCL shall supply RDF of 600 TPD.
- iii. Project implementation period: 24 months including monsoon period from the date of LOA for the entire scope of work as specified.
- iv. Duration of O & M Contract period: 02 Years extendable upto further three years based on mutually agreed terms and conditions.
- v. Earnest Money Deposit(EMD): **Rs.2,10,00,000/-**
- vi. Land: Minimum land required for establishment of the project will be spared at KPCL Bidadi site (Weightage to be given for the area). Land shall be provided on rent-free basis. The plant is to be designed by using minimum possible land.
- vii. Consortium: Allowed, not more than 2 firms.
- viii. Insurance shall be obtained in the name of KPCL and shall be at the cost of Bidder.

ix. Responsibility of KPCL:

- PPA will be signed by KPCL with BESCO.
- Power evacuation from Plant Take-off point to KPTCL Substation. Power evacuation is proposed through 66 kV Voltage level. *The details will be finalized during detailed engineering in coordination with KPTCL/ BESCO.*

The responsibility of the Bidder shall be upto and including Switchyard (evacuation point) with the voltage level of 66 kV.

- Water requirement for the project:

KPCL shall provide the treated water for plant use from BWSSB. However, Water quality shall be tested by Bidder himself for considering design aspect. Water drawn from BWSSB shall be treated for use in Waste to Energy plant. Drawing of water from Termination point of BWSSB line at site area to the WtE plant and treating of this water is in the scope of bidder. Water consumption charges shall be borne by Bidder as per the prevailing rates. All the internal pipeline works for water supply shall be the responsibility of Bidder.

- KPCL will facilitate the disposal of the inerts/ rejects materials including transportation on weekly basis.
- KPCL will take care of the Utilization / disposal of Fly ash / Bottom Ash Twice in a week from the disposal point of waste to energy plant.

- The pre-requisite approvals required for commencement of construction activities like Consent for Establishment(CFE) from the Karnataka State Pollution Control Board (KSPCB) and NOC from Airport Authority of India shall be obtained by KPCL. All the required documentation viz., DPR, design, drawings, etc., required for obtaining the same shall be submitted by Contractor within one month from date of LoI.
- KPCL shall provide construction power on free of cost basis. Any supply failure due to grid disturbances, the contractor shall not claim any compensation. During such period, contractor shall make alternative arrangement for power supply.

x. Responsibility of Bidder:

- Design, Engineering, manufacture, Inspection, Testing of performance at works, Supply of all the materials at Ex-works for waste to energy plant including associated civil, electrical, mechanical and C&I works and mandatory spares etc. Operate and maintain the WtE plant which shall convert segregated MSW to electricity.
- Successful trial run for One month with PLF of 65 %.
- Operate and Maintain the said plant for 2 years (Two) after COD and further extendable upto three years on mutually agreed terms & conditions.
- All environmental existing norms of GoI and GoK should be adhered.
- Leachate treatment, as per MSW 2016, for which, a facility will have to be established by the Bidder.
- EIA Clearance: Not required for the plant capacity less than 20MW. If required, the same shall be obtained by the Bidder.

However, all other statutory clearances required shall be in the scope of Bidder except Consent for Establishment(CFE) from KSPCB and NOC from Airport Authority of India.

- Obtaining of all Statutory clearance, Labour license, Factories license, Boiler license, CEIG clearance, Consent to operate from KSPCB, any other clearances as mandated by GoK/ GoI from respective Departments is in Bidder's scope. KPCL will assist for obtaining approvals.
- Water drawn from BWSSB shall be treated for use in Waste to Energy Plant. Drawing of water from Termination point of BWSSB line to the plant and treating is in scope of Bidder.
- For storage of Bottom Ash, a conveyor system or suitable ash handling system with RCC floored storage pit area shall be provided by Contractor.
- While executing the work, accident prevention shall be essential part of the programme of the bidder. All safety precautions are to be taken to prevent any accident leading to damages to KPCL property/ equipment and temporary/permanent injury to workers.

14.0 The intending bidder shall quote in **Indian Rupees only**.

15.0 Bidders may visit the site, before submitting their bid through e-portal to have hands on information about site conditions & scope of work, if they desire so.

16.0 Corporation reserves the right to award whole or part of the work should the situation so warrant.

- 17.0** KPCL reserves the right to verify the information / document furnished by the bidder, should the circumstances so warrant in the overall interest of the corporation. In case the information or the documents furnished are found to be incorrect or invalid, then the EMD furnished by such bidders will be forfeited.
- 18.0** The prospective bidder should not coerce any other bidders to derail the healthy and competitive bidding process. Such acts entail the disqualification for participating in the tender process. The prospective bidder shall not resort to anti-competitive practices like price rigging, cartelization, ring formation or adopt unfair practices both civil and criminal aimed at preventing other bidders from quoting for the bid, any act inhibits competition or any act that will be detrimental to the interest of the KARNATAKA POWER CORPORATION LIMITED. If the bidder is found to have resorted to such practices as specified above, he and others who act in concert with him shall be debarred from quoting for this bid and for future bids for a period of three years.
- 19.0** The contractor shall carryout the specified work to the satisfaction of KPCL as per the directions given from time to time. In case of unsatisfactory performance of the contract, the Corporation reserves the right to cancel the contract and Security Deposit will be forfeited.
- 20.0** KPCL GST details: Tax payer Trade / Legal Name: KARNATAKA POWER CORPORATION LIMITED, GST Number: 29AAACK8032D1ZQ.
- 21.0** Corrigendum / Modification, corrections, if any will be published in the website only, for any clarification on e-procurement, request for e-procurement training, bidders can contact help desk Nos. 080-25501216 / 25501227.
- 22.0** Detailed notification containing prequalification requirement can be viewed on KPCL website: www.karnatakapower.com. However, agencies are requested to contact the undersigned for further details during office hours.

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**Chief Engineer (O&M) YCCPP
KPCL, BANGALORE**