

INVITATION FOR BIDS (IFB)	Specification No.	DBPL-CG-2x600 MW-BIOMASS-01
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DB POWER LIMITED

INVITAION FOR BIDS (IFB)

FOR

PROCUREMENT OF BIOMASS PELLETS FOR 2x600 MW DB THERMAL POWER PLANTS

(DOMESTIC COMPETITIVE BIDDING)

IFB NO. DBPL-CG-2x600 MW-BIOMASS-01

1.0 DB Power Limited invites sealed bids from eligible bidders in two parts (i.e. Part – I: Techno commercial bid and Part – II: Price Bid) from eligible Bidders for the scope of work briefly mentioned hereinafter for 2x600 MW DB Thermal Power plant of DB Power Ltd (DBPL) located at Village Badadarha, The-Dabra, Distt- Janjgir-Champa, as per scope of work mentioned hereinafter.

2.0 **Scope of Work: The brief scope of Work is as under:**

The scope of work under this package shall include supply, loading, transport and delivery of agro residue based biomass pellet at DBPL plant site.

Unloading shall be in the scope of DBPL at the particular Plant location as mentioned at para 1.0 above, provided pellets are loose filled in the carriage vehicle. Carriage vehicle should be fully covered and waterproof during transportation to prevent the material from rain, sunlight and to prevent dusting.

If supplier supplies the material packed in bags, consignment shall not be accepted or supplier shall unload the material at his own cost. In that case, for any extra halt of carriage vehicle, demurrage shall not be payable by DBPL.

The biomass pellets supplied shall primarily be made of agro residue and these shall adhered to the technical specification given in this document.

3.0 **QUANTITY TO BE SUPPLIED & DELIVERY SCHEDULE**

The quantity of biomass pellets to be supplied by the bidder shall be 1000metric tonnes per day (tpd) on regular basis for a period of 365 days in a year. However, depending upon quantity to be supplied, the bidder can also supply

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the consignment of pellets at frequency of one consignment per more than one day, as per mutual agreement with the owner. The supply of biomass pellets to the power plant shall be intimated by DBPL separately.

The consignment of biomass pellets shall be delivered at owner's thermal power plant, transported by trucks/dumpers.

If required by owner, as per reasons attributable to the power plant, the scheduled quantity of pellets to be supplied by the bidder to the power plant may change. In such case, the changed delivery schedule shall be sent by owner to the supplier, say three (3) day in advance at his official e-mail ID or by other means, indicating revised quantity of biomass pellets to be delivered (which may even be zero) and supplier shall dispatch the consignment accordingly.

4.0 RAW MATERIALS

For manufacturing of non- torrefied / torrefied biomass pellets, the raw materials to be used shall primarily be the surplus agro residue/ crop residue which remain unutilized after harvesting the crop and is otherwise being burnt by the farmers in the field. The type and availability of such surplus agro residue shall vary from region to region as per crop pattern and extent of farm residue being utilized for various purposes. For example, for north western region of the country, the agro residue/ farm residue likely to be available as surplus for making of pellets are paddy stubbles/ straw & husk, cotton stalks & husk, ground nut shell & stalks, maize stalks & cobs, sunflower stalks, gram stalks, castor stalks & shell and cumin seed stalks etc. (owner to indicate available agro residues as applicable).

Agro residue pellets can be manufactured using single or multiple agro/crop residues together. Any byproduct of wood work factory (such as wood, wood chips, saw dust, furniture waste etc.) shall not be used in manufacture of the biomass pellets.

Natural additives/ binder such as lignin, starch, animal dung etc. can be used for manufacturing pellets, if required, by the process.

The details of biomass components and natural additives/ binder (if any) likely to be used in manufacture of pellets alongwith their proportions shall be indicated by the bidder in his offer. Further, each consignment to be supplied shall indicate the actual material components & their proportions used in manufacture of biomass pellets.

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DBPL reserves the right to exclude any base material/ additive/ binder or modify their proportion, if any adverse impact of the base material/ additives/ binder is found on boiler in long run.

5.0 TECHNICAL PARAMETERS

The manufacturer/ supplier will guarantee the technical parameters of biomass pellets as given below:

Sl no	Technical Data	Unit	Guaranteed Value range
1	Base Material		Agree Residue/Crop Residue
2	Diameter	Mm	Not more than 25 mm
3	Length	Mm	Note more than 50 mm
4	Bulk Density	Kg/M3	Not less than 600 kg/M3
5	Fines% (length <3 mm)	Weight (%)	fines ≤ 5%
6	Gross calorific value (ARB)	Kcal/kg	Non- torrefied pellets: 3500 ± 100 Torrefied pellets: 4500 ± 100
7	Moisture (ARB)	Weight (%)	Not more than 9%
8	Ash (ARB)	Weight (%)	Not more than 20%
9	Hardgrove Grindability Index		50 or more
10.	Particle size distribution	Weight%	Passing proportion from 2 mm mesh size sieve:

The above indicated characteristic parameters of the pellets are intended to be adhered to and maintained by the manufacturer/ supplier. No price adjustment shall be done for the pellet supplies made as per above specification. The price adjustment shall be made for variation of key technical parameters from the specified values as described in subsequent clauses of this specification.

6.0 REJECTION LEVEL

The consignment of biomass pellets arrived at Utility shall initially be tested for following before unloading and shall be rejected in case any of the following parameters exceed the rejection level given below

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Sl no	Technical Data	Unit	Guaranteed Value range
1	Moisture (As Received Basis)	Weight (%)	More than 14%
2	HGI	mm	Less than 48%
3	Particle size distribution (After crushing and pulverizing in site lab pulverizer)	Weight (%)	Not meeting guaranteed value as specified in above table

The GCV of agro residue based biomass pellets supplied to the power plant shall not be less than 2800 kcal/kg in case of non- torrefied type pellets and 3600 kcal/kg in case of torrefied type pellets. If supplier is found to frequently supply the material of GCV less than the above values as found in test report of owner's lab or supplier is found to take deviations in other technical parameters like size, base material etc., warning letter shall be issued to supplier or contract may also be cancelled if supplier continues to do so even after issuing warning letter.

- 7.0 Detailed specifications and scope are given in the bidding documents, which are available for examination at the address given below and as per the following schedule:

Shriram Katkade

DGM (Techno Commercial)

D B Power Limited,

| Opp. Dena Bank | BKC, Bandra (E) | Mumbai 400051 |

| Dir: 022 71566093 / Mob: 9920650851 |

E Mail shriram.katkade@dbpower.in

BID DOCUMENT No.	DBPL--2x660 MW-BIOMASS-01
Issuance of IFB	18.02.2022
Cost of Bid Documents	Free of cost
Last date for receipt of queries	28.02.2022
Earnest Money / Bid Security	NIL
Last date of receipt of Bids	01-03-2022 upto 5.30 PM
Bid Opening date and time	Shall be informed by DBPL separately

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No Queries from Bidders, whatsoever, shall be entertained by the Employer beyond the last date of receipt of Queries as specified above.

8.0 MSE Benefits: Benefits under PPP 2012 for MSEs are applicable only for (a) Goods produced and (b) Services provided by MSEs. MSE benefits shall not be applicable to Trader/Dealer of Goods. For availing MSE benefits, bidder shall confirm that Biomass Pellets, offered / quoted are manufactured by them. For applicability of MSE benefits, bidder shall refer to the Bidding documents.

9.0 **Qualifying requirement for Bidders**

9.1 The APPLICANT should be of minimum 21 years of age (in case of individual APPLICANT).

9.2 The Bidder shall be of Indian nationality AND / OR a Company/ Sole Proprietorships / Partnerships / Limited Liability Partnerships / Consortium / Cooperative Societies registered in India AND / OR Non-Resident Indians/ Person of Indian Origin AND / OR a Multinational Company having its registered office in India / Overseas Corporate Bodies having its registered office in India.

9.3 Bidding for the subject package is open to #bidders from within the Employer's country only, subject to fulfillment of conditions "Restrictions on procurement from a Bidder of a country which shares a land border with India".

9.4 In case of Consortium, all the Partners of the consortium shall be from within the Employer's country.

9.5 Bidder shall provide the documents in support of the type of firm/ company they own. In case of Individual applicant, Proof of Nationality and age like voter cards, passport, Aadhaar etc. may be submitted.

10.0 DBPL reserves the right to reject any or all bids or cancel/withdraw the Invitation for Bids (IFB) without assigning any reason whatsoever and in such case no Bidder/intending Bidder shall have any claim arising out of such action.
