

Bid Document

Bid Details	
Bid End Date/Time	01-11-2021 14:00:00
Bid Opening Date/Time	01-11-2021 14:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	75 (Days)
Ministry/State Name	Ministry Of Heavy Industries And Public Enterprises
Department Name	Department Of Heavy Industry
Organisation Name	Bharat Heavy Electricals Limited (bhel)
Office Name	10340020-tbg, Noida
Total Quantity	500
Item Category	ACSR CONDUCTOR - TYPE: BERSIMIS
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Certificate (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled	Yes
RA Qualification Rule	50% Lowest Priced Technically Qualified Bidders
Time allowed for Technical Clarifications during technical evaluation	2 Days
Payment Timelines	Payments shall be made to the Seller within 60 days of issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills (This is in supersession of 10 days time as provided in clause 12 of GeM GTC)
Evaluation Method	Total value wise evaluation

EMD Detail

Required	No
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ePBG Detail

Required	No
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Splitting

Bid splitting not applied.

Reserved for Make In India products

Reserved for Make In India products	Yes
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MSE Purchase Preference

MSE Purchase Preference	Yes
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1. Bid reserved for Make In India products: : Procurement under this bid is reserved for purchase from Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. However, eligible micro and small enterprises will be allowed to participate. The minimum local content to qualify as a class 1 local supplier is denoted in the bid document. All bidders must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which the bid is liable to be rejected. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020 . In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

2. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 25%(selected by Buyer) percentage of total QUANTITY.

3. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

4. Reverse Auction would be conducted amongst first 50% of the technically qualified bidders arranged in the order of prices from lowest to highest. Number of sellers eligible for participating in RA would be rounded off to next higher integer value if number of technically qualified bidders is odd (e.g. if 7 bids are technically qualified, then RA will be conducted amongst L-1 to L-4). In case number of technically qualified bidders are 2 or 3, RA will be between all without any elimination. If Buyer has chosen to split the bid amongst N sellers, then minimum N sellers would be taken to RA round. In case Primary products of only one OEM are left in contention for participation in RA based on lowest 50% bidders qualifying for RA, the number of sellers qualifying for RA would be increased to get at least products of one more OEM (directly participated or through its reseller) if available. Further, if bid(s) of any seller(s) eligible for MSE preference is / are coming within price band of 15% of Non MSE L-1 or if bid of any seller(s) eligible for Make in India preference is / are coming within price band of 20% of non MII L-1, then such MSE / Make in India seller shall also be allowed to participate in the RA process.

ACSR CONDUCTOR - TYPE: BERSIMIS (500 kilometer)

(Minimum 50% Local content required for MII compliance)

Brand Type	Registered Brand
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Technical Specifications* [As per GeM Category Specification](#)

Specification	Specification Name	Bid Requirement (Allowed Values)
Standards	Conformity of the specification for Aluminium conductors for overhead transmission purposes	Generally as per IS : 398 (Part 5) latest and with additional requirement as mentioned below
	as per IS:398 (Part 5):1996 latest	2, 1 Or higher
	Govt. Organization with which seller is registered	POWERGRID, NA
	Aluminium wires :Properties and characteristics	as per IS:398 (Part 5):1996 latest
	Steel Wire: Properties and characteristics as prescribed for regular strength steel wire	as per IS:398 (Part 5):1996 latest
	Testing and Inspection protocol	as per IS:398 (Part 5):1996 latest
	Type Test, Acceptance test, Routine Tests parameters, test methods and requirements	as per Cl. 14 of IS:398 (Part 5):1996 latest
	Packing and marking	as per Annexure C attached for POWERGRID
	Steel Drums for packing of finished conductor	as per Annexure D attached for POWERGRID
	Wooden Drums for packing of finished conductor	as per Annexure E attached for POWERGRID
	Price variation	as per Annexure F attached for POWERGRID, Not applicable
	Agreed to obtain approval of manufacturing quality plan from buyer before commencement of manufacturing and agreed to follow the same	Yes
	All the Annexures attached above are seen and understood	Yes
Transmission Line Parameters	Voltage rating	765 KV
	Bundle Configuration	Four Conductor
Construction	Shape of conductor	Stranded

Specification	Specification Name	Bid Requirement (Allowed Values)
	No. of Aluminium wires in conductor (in Nos.)	42
	Aluminium wire diameter, Nominal (in mm)	4.57 (Minimum: 4.54 mm, Maximum: 4.60 mm)
	No. of Steel wires in conductor (in Nos.)	7
	Steel wire diameter, Nominal (in mm)	2.54 (Minimum: 2.49 mm, Maximum: 2.59 mm)
	Steel Core (in Nos.)	1
	No. of of wires on 1st steel layer (in Nos.)	6
	No. of of wires on 1st Aluminium layer (in Nos.)	8
	No. of of wires on 2nd Aluminium layer (in Nos.)	14
Chemical Composition - Aluminium	Minimum Purity of aluminium (in %)	99.5
	Maximum copper content (in %)	0.04
Chemical Composition - Steel wires / Rods	Carbon (in %)	0.50 to 0.85
	Manganese (in %)	0.50 to 1.10
	Phosphorous (in %)	≤ 0.035
	Sulphur (in %)	≤ 0.045
	Silicon (in %)	0.10 to 0.35
	Minimum purity of zinc (in %)	99.95
Breaking load	Minimum breaking load of strand: Aluminium: Before stranding (in KN)	2.64
	Minimum breaking load of strand: Aluminium: After stranding (in KN)	2.51
	Maximum Resistance of 1 m length of Aluminium strand at 20 deg. C (in Ohm)	0.001746
	Minimum breaking load of strand: Steel: Before stranding (in KN)	6.87
	Minimum breaking load of strand: Steel: After stranding (in KN)	6.53
	Method for tensile testing of steel wire	as per IS:1521:1972 latest

Specification	Specification Name	Bid Requirement (Allowed Values)
Galvanizing	Zinc used for galvanizing shall be electrolyte high grade zinc	as per IS:209:1992 latest
	Methods for testing uniformity of coating of zinc coated articles	as per IS:2633:1986 latest
	Hot-Dipped Galvanized Coatings on Round Steel Wire	as per IS:4826:1979 latest
	Method for determination of mass of zinc coating on zinc coated iron and steel articles	as per IS:6745:1972 latest
	Minimum weight of zinc coating per Sq.mm (in gm)	230
	Minimum number of dips that the galvanised strand can withstand in the standard preece test	2 of one minute
	Recommended Practice for Hot-Dip Galvanizing of Iron and Steel	as per IS:2629:1985 latest
	Minimum no. of twists in gauge length equal 100 times the dia., of wire which the strand can withstand in the torsion test (after stranding)	16
Stranded Conductor	Overall diameter (in mm)	35.04
	Sectional area of aluminium (in Sq.mm)	688.9
	Total sectional area (in Sq.mm)	724.4
	Minimum UTS of the conductor (in KN)	124
	Maximum DC resistance of the conductor at 20 deg. C (in Ohm/Km)	0.04242
Standard Length	Standard length of the conductor (in m)	2100+/-5% as per Annexure A attached for POWERGRID, 2100+/-5%
	Linear mass of the conductor, Standard (in Kg/Km)	2181 (Minimum: 2142 Kg/Km, Maximum: 2221 Kg/Km)
Lay Length of Outer Steel Wire	Minimum Lay length, 1st Steel layer (in mm)	16 to 24
	Minimum Lay length, 1st Aluminium layer (in mm)	10 to 16

Specification	Specification Name	Bid Requirement (Allowed Values)
	Minimum Lay length, 2nd Aluminium layer (in mm)	10 to 16
	Minimum Lay length, 3rd Aluminium layer (in mm)	10 to 13
JOINTS IN WIRES	Aluminium wires during stranding	No aluminium wire welds made for the purpose of achieving the required conductor length.
	Aluminium wires: Individual wires in the inner layers of the finished conductor	Joints permitted (But not more than 4 per conductor length and shall not be closer than 15 meters from joint in the same wire or in any other aluminium wire of the completed conductor)
	Aluminium wires: Cold pressure butt welding withstand a stress of	Not less than the breaking strength of individual strand as per relevant IS/IEC specifications
PACKING	Finished Conductor shall be supplied with	Painted steel drum
	Sealing of finished conductor	Both end of the conductor to be sealed.
	Drums are returnable	96% of total drums returnable
	Protection for conductor against all damage and displacement during transit, storage and subsequent handling and stringing operations in the field	Protected.
	Outer Covering material on the conductor after packing on drums	Covered with Solid Polypropylene sheet with minimum 5mm thickness
	Supplier shall be responsible for any loss or damage during transportation, handling and storage due to improper packing.	Yes
CERTIFICATIONS	Availability of Type test report to prove conformity to the specification	Yes, from NABL Accredited Lab

Additional Specification Parameters - ACSR CONDUCTOR - TYPE: BERSIMIS (500 kilometer)

Specification Parameter Name	Bid Requirement (Allowed Values)
Price Variation	Not Applicable

* Bidders offering must also comply with the additional specification parameters mentioned above.

Additional Specification Documents

Applicable Specification Document	View
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Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Dinesh Rambhau Jawade	425307,BHEL C/o, Chief Engineer /Dy. Cheif Engineer (Project) Maharashtra State Power Generation Co.Ltd. Bhusawal Thermal PowerStation Project Bhusawal, Dist. Jalgaon (MS) Pin – 425307	500	175

Buyer Added Bid Specific Additional Terms and Conditions

1. After award of contract – Successful Bidder shall have to get Detailed Design Drawings approved from buyer before starting fabrication. Successful Bidder shall submit Detailed Design Drawings for Buyer's approval, within 21 days of award of contract. Buyer shall, either approve the drawings or will provide complete list of modification required in the drawings within 7 days. Seller shall be required to ensure supply as per approved Drawings with modifications as communicated by Buyer. If there is delay from buyer side in approval of drawing- the delivery period shall be refixed without LD for the period of delay in approval of Drawing.
2. Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.
3. Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.
4. OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.
5. Scope of supply (Bid price to include all cost components) : Only supply of Goods
6. **Pre-dispatch inspection at Seller premises (Fee/Charges to be borne by the BUYER):** Before dispatch, the goods will be inspected by Buyer / Consignee or their Authorized Representative or by Nominated External Inspection Agency (independently or jointly with Buyer or Consignee as decided by the Buyer) at Seller premises (or at designated place for inspection as declared / communicated by the seller) for their compliance to the contract specifications. Fee/Charges taken by the External inspection Agency and any external laboratories testing charges shall be borne by the Buyer. For in-house testing, the Sellers will provide necessary facilities free of cost. Seller shall notify the Buyer through e-mail about readiness of goods for pre-dispatch inspection and Buyer will notify the Seller about the Authorized Representative/ Nominated External Inspection Agency and the date for testing. The goods would be dispatched to consignee only after clearance in pre-dispatch inspection. Consignee's right of rejection as per GTC in respect of the goods finally received at his location shall in no way be limited or waived by reason of the goods having previously been inspected, tested and passed by Buyer/ Consignee or its Nominated External Inspection Agency prior to the goods' shipment. While bidding, the sellers should take into account 7 days for inspection from the date of email offering the goods for inspection. Any delay in inspection beyond 7 days shall be on the part of the buyer and shall be regularised without Liquidated Damages.

When there is requirement of submission the advance sample, the seller shall inform the buyer promptly through emails about the date of submission of sample to the buyer nominated Inspection agency.

7. Buyer Added text based ATC clauses

Sl. No	TQR DESCRIPTION	SUPPORTING DOCUMENT TO BE ATTACHED
1.	The Bidder should have supplied ACSR overhead Conductor during the last 7(Seven) years as on the date of technical bid opening of this tender	a) Copy of Purchase Orders / LR / MDCC/ Dispatch instructions.

8. Buyer uploaded ATC document [Click here to view the file.](#)

Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization. Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specification and / or terms and conditions governing the bid. Any clause incorporated by the Buyer such as demanding Tender Sample, incorporating any clause against the MSME policy and Preference to make in India Policy, mandating any Brand names or Foreign Certification, changing the default time period for Acceptance of material or payment timeline governed by OM of Department of Expenditure shall be null and void and would not be considered part of bid. Further any reference of conditions published on any external site or reference to external documents / clauses shall also be null and void. If any seller has any objection / grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

[This Bid is also governed by the General Terms and Conditions](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---Thank You---