

Bid Document

Bid Details	
Bid End Date/Time	17-09-2021 14:00:00
Bid Opening Date/Time	17-09-2021 14:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	65 (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	10020009-cffp Haridwar
Total Quantity	62
Item Category	Graphite Electrode-IS:9050
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Bid to RA enabled	Yes
RA Qualification Rule	50% Lowest Priced Technically Qualified Bidders
Primary product category	Graphite Electrode-IS:9050
Time allowed for Technical Clarifications during technical evaluation	2 Days
Estimated Bid Value	17188476
Evaluation Method	Item wise evaluation

EMD Detail

Required	No
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ePBG Detail

Required	No
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(a). The EMD % will be applicable for each schedule/group selected during Bid creation.

Splitting

Bid splitting not applied.

MII Purchase Preference

MI Purchase Preference	Yes
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MSE Purchase Preference

MSE Purchase Preference	Yes
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1. Preference to Make In India products (For bids < 200 Crore): Preference shall be given to 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. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder 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 no purchase preference shall be granted. 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. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .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.

Evaluation Method (Item Wise Evaluation Method)

Contract will be awarded schedulewise and the determination of L1 will be done separately for each schedule. The details of item-consignee combination covered under each schedule are as under:

Evaluation Schedules	Estimated Value	Item/Category	Quantity
Schedule 1	1755702	Graphite Electrode-is:9050	7
Schedule 2	8778510	Graphite Electrode-is:9050	35
Schedule 3	6654264	Graphite Electrode-is:9050	20

Graphite Electrode-IS:9050 (7 metric tonne)

(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)
Grades	Type fo grade	High Power
Capacity	Current Carrying Capacity, kA	16-24, 24-32, 32-40, 40-48, 48-56, 56-64, 64-72, 72-80, 80-88, 88-96, 96-104, 104-112, 112-120, 120-128, 128-136, 136-144, 144-152, 152-160, 5.2 to 9.1, 6.5 to 11.7, 7 to 10, 7 to 13, 8.45 to 14.3, 10.4 to 17.6, 11.7 to 19.5, 12 to 20, 13 to 24.7, 14.4 to 24, 16 to 30.4, 18.2 to 30.55, 19.5 to 32, 20 to 35, 20 to 38, 22.1 to 35.75, 22.4 to 37.6, 23 to 36, 27.2 to 44, 28 to 47, 28 to 51, 32 to 51.2, 40 to 48, 40 to 64, 45 Min
Dimensions	Electrode Nominal Length	1000, 1200, 1500, 1800, 2100, 2400, 2700
	Electrode Nominal Diameter	300.0
	Tolerance in Nominal Length	1100-1350, 1400-1550, 1400-1650, 1700-1850, 1700-1875, 1700-1975, 1975-2275
	Short Length Tolerance	Upto 975, Upto 1225, Upto 1525, Upto 1825, Upto 2125
	Tolerance in Nominal Diameter	200-205, 225-230, 229-231, 251-256, 302-307, 352-357, 403-409, 454-460, 505-511
Technical Parameters	Apparent Density in GMS/CC, Min	1.62, 1.66-1.76, 1.68-1.76, 1.73-1.85, 1.55 to 1.65, 1.56 to 1.66, 1.65 to 1.75, 1.66 to 1.76, 1.65 Min
Nipples Parameters	Type of nipple used	4 TPI
	Accessories Complementary (Included With Graphite Elcetrode)	Transfer Nipple/ Lifting Plug- 1 no. every 40 pcs.

Additional Specification Parameters - Graphite Electrode-IS:9050 (7 metric tonne)

Specification Parameter Name	Bid Requirement (Allowed Values)
300mm nominal Diameter HP grade Graphite Electrodes along with connecting Nipples are to be supplied in accordance to IS:9050. Diameter tolerance: 302-307 mm. Length: 1500-1800 mm Nipples (4TPI of UHP grade) as per IS 9050	Vendor to accept to supply Graphite Electrode as per dimensions specified to the left without any deviation.
Physical & Chemical properties. Bulk Density: 1.58-1.63 g/cc, Grain Size: 1.68 mm (max) Resistivity (micro ohm-cm): 700-900, Flexural Strength (Kg/Cm2):100-130, Compressive Strength (Kg/Cm2):180-230, Tensile Strength (Kg/Cm2): 60-80	Vendor to accept to supply Graphite Electrode as per Physical & Chemical properties specified to the left without any deviation.
Coefficient of thermal; expansion (/Deg C x 10 ^{^(-7)}): 10-13, Youngs Modulus (Kg/mm2): 800-900, Apparent porosity (%): 25-27, Ash content (% ,max): 0.2%, Carbon content: 99.8% (Min)	Vendor to accept to supply Graphite Electrode as per Physical & Chemical properties specified to the left without any deviation.
Supplier is required to furnish 4 set of originals manufacturers test certificate along with supply of material containing BHEL PO number, Supplier name, Batch Number & Serial Number, Test result against above mentioned Physical & Chemical Properties	Vendor to agree
To be supplied in suitably packed wooden crates/pallets, the end of electrodes shall be covered with corrugated boards to protect the threads and other damage during transit. Nipples to be packed separately in thick corrugated boxes.	Vendor to agree and quantity variation shall be +/- 5%

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

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Delivery Schedule (In number of days from contract start days)
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S.No.	Consignee/Reporting Officer	Address	Delivery Schedule (In number of days from contract start days)		
1	Pramod Kumar Mishra	249403,Central Foundry Forge Plant, BHEL, Ranipur, Haridwar	Quantity	Delivery to start after	Delivery to be completed by
			4	30	50
			3	60	80

Graphite Electrode-IS:9050 (35 metric tonne)

(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)
Grades	Type fo grade	High Power
Capacity	Current Carrying Capacity, kA	16-24, 24-32, 32-40, 40-48, 48-56, 56-64, 64-72, 72-80, 80-88, 88-96, 96-104, 104-112, 112-120, 120-128, 128-136, 136-144, 144-152, 152-160, 5.2 to 9.1, 6.5 to 11.7, 7 to 10, 7 to 13, 8.45 to 14.3, 10.4 to 17.6, 11.7 to 19.5, 12 to 20, 13 to 24.7, 14.4 to 24, 16 to 30.4, 18.2 to 30.55, 19.5 to 32, 20 to 35, 20 to 38, 22.1 to 35.75, 22.4 to 37.6, 23 to 36, 27.2 to 44, 28 to 47, 28 to 51, 32 to 51.2, 40 to 48, 40 to 64, 45 Min
Dimensions	Electrode Nominal Length	1000, 1200, 1500, 1800, 2100, 2400, 2700
	Electrode Nominal Diameter	400.0
	Tolerance in Nominal Length	1100-1350, 1400-1550, 1400-1650, 1700-1850, 1700-1875, 1700-1975, 1975-2275
	Short Length Tolerance	Upto 975, Upto 1225, Upto 1525, Upto 1825, Upto 2125
	Tolerance in Nominal Diameter	200-205, 225-230, 229-231, 251-256, 302-307, 352-357, 403-409, 454-460, 505-511
Technical Parameters	Apparent Density in GMS/CC, Min	1.62, 1.66-1.76, 1.68-1.76, 1.73-1.85, 1.55 to 1.65, 1.56 to 1.66, 1.65 to 1.75, 1.66 to 1.76, 1.65 Min
Nipples Parameters	Type of nipple used	4 TPI
	Accessories Complementary (Included With Graphite Elcetrode)	Transfer Nipple/ Lifting Plug- 1 no. every 40 pcs.

Additional Specification Parameters - Graphite Electrode-IS:9050 (35 metric tonne)

Specification Parameter Name	Bid Requirement (Allowed Values)
400mm nominal Diameter HP grade Graphite Electrodes along with connecting Nipples are to be supplied in accordance to IS:9050. Diameter tolerance: 403-408 mm. Length: 1500-1800 mm Nipples (4TPI of UHP grade) as per IS 9050	Vendor to accept to supply Graphite Electrode as per dimensions specified to the left without any deviation.
Physical & Chemical properties. Bulk Density: 1.58-1.63 g/cc. Grain Size: 6-7 mm (max), Resistivity (micro ohm-cm): 700-900, Flexural Strength (Kg/Cm2):70-90, Compressive Strength (Kg/Cm2):125-160, Tensile Strength (Kg/Cm2): 42-54	Vendor to accept to supply Graphite Electrode as per Physical & Chemical properties specified to the left without any deviation.
Coefficient of thermal expansion (/Deg C x 10 ^{^(-7))} : 10-13, Youngs Modulus (Kg/mm2): 600-700, Apparent porosity (%): 26-28, Ash content (% ,max): 0.2%, Carbon content: 99.8% (Min)	Vendor to accept to supply Graphite Electrode as per Physical & Chemical properties specified to the left without any deviation.
Supplier is required to furnish 4 set of originals manufacturers test certificate along with supply of material containing BHEL PO number, Supplier name, Batch Number & Serial Number, Test result against above mentioned Physical & Chemical Properties	Vendor to agree
To be supplied in suitably packed wooden crates/pallets, the end of electrodes shall be covered with corrugated boards to protect the threads and other damage during transit. Nipples to be packed separately in thick corrugated boxes.	Vendor to agree and quantity variation shall be +/- 5%

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

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Delivery Schedule (In number of days from contract start days)
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S.No.	Consignee/Reporting Officer	Address	Delivery Schedule (In number of days from contract start days)		
1	Pramod Kumar Mishra	249403,Central Foundry Forge Plant, BHEL, Ranipur, Haridwar	Quantity	Delivery to start after	Delivery to be completed by
			10	30	50
			10	60	75
			15	80	90

Graphite Electrode-IS:9050 (20 metric tonne)

(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)
Grades	Type fo grade	Ultra High Power
Capacity	Current Carrying Capacity, kA	16-24, 24-32, 32-40, 40-48, 48-56, 56-64, 64-72, 72-80, 80-88, 88-96, 96-104, 104-112, 112-120, 120-128, 128-136, 136-144, 144-152, 152-160, 5.2 to 9.1, 6.5 to 11.7, 7 to 10, 7 to 13, 8.45 to 14.3, 10.4 to 17.6, 11.7 to 19.5, 12 to 20, 13 to 24.7, 14.4 to 24, 16 to 30.4, 18.2 to 30.55, 19.5 to 32, 20 to 35, 20 to 38, 22.1 to 35.75, 22.4 to 37.6, 23 to 36, 27.2 to 44, 28 to 47, 28 to 51, 32 to 51.2, 40 to 48, 40 to 64, 45 Min
Dimensions	Electrode Nominal Length	1000, 1200, 1500, 1800, 2100, 2400, 2700
	Electrode Nominal Diameter	350.0
	Tolerance in Nominal Length	1100-1350, 1400-1550, 1400-1650, 1700-1850, 1700-1875, 1700-1975, 1975-2275
	Short Length Tolerance	Upto 975, Upto 1225, Upto 1525, Upto 1825, Upto 2125
	Tolerance in Nominal Diameter	200-205, 225-230, 229-231, 251-256, 302-307, 352-357, 403-409, 454-460, 505-511
Technical Parameters	Apparent Density in GMS/CC, Min	1.62, 1.66-1.76, 1.68-1.76, 1.73-1.85, 1.55 to 1.65, 1.56 to 1.66, 1.65 to 1.75, 1.66 to 1.76, 1.65 Min
Nipples Parameters	Type of nipple used	4 TPI
	Accessories Complementary (Included With Graphite Elcetrode)	Torque Wrench- 1 no. per order, Transfer Nipple/ Lifting Plug- 1 no. every 40 pcs., Strap Cutter- 1 no. per order

Additional Specification Parameters - Graphite Electrode-IS:9050 (20 metric tonne)

Specification Parameter Name	Bid Requirement (Allowed Values)
350mm nominal Diameter UHP grade Graphite Electrodes along with connecting Nipples are to be supplied in accordance to IS:9050. Diameter tolerance: 352-357 mm. Length: 1500-1600 mm Nipples (4TPI of UHP grade) as per IS 9050	Vendor to accept to supply Graphite Electrode as per dimensions specified to the left without any deviation.
Physical & Chemical properties. Bulk Density: 1.66-1.73 g/cc, Grain Size: 6.7 mm (max) Resistivity (micro ohm-cm): 550-800, Flexural Strength (Kg/Cm2):110-180, Compressive Strength (Kg/Cm2):200-270, Tensile Strength (Kg/Cm2): 65-90	Vendor to accept to supply Graphite Electrode as per Physical & Chemical properties specified to the left without any deviation.
Coefficient of thermal expansion (/Deg C x 10 ^{^-7}): 11-15, Youngs Modulus (Kg/mm2): 1100-1185, Apparent porosity (%): 22-24, Ash content (%,max): 0.2%, Carbon content: 99.8% (Min)	Vendor to accept to supply Graphite Electrode as per Physical & Chemical properties specified to the left without any deviation.
Supplier is required to furnish 4 set of originals manufacturers test certificate along with supply of material containing BHEL PO number, Supplier name, Batch Number & Serial Number, Test result against above mentioned Physical & Chemical Properties	Vendor to agree
To be supplied in suitably packed wooden crates/pallets, the end of electrodes shall be covered with corrugated boards to protect the threads and other damage during transit. Nipples to be packed separately in thick corrugated boxes.	Vendor to agree and quantity variation shall be +/- 5%

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

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Delivery Schedule (In number of days from contract start days)
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S.No.	Consignee/Reporting Officer	Address	Delivery Schedule (In number of days from contract start days)		
1	Pramod Kumar Mishra	249403,Central Foundry Forge Plant, BHEL, Ranipur, Haridwar	Quantity	Delivery to start after	Delivery to be completed by
			10	15	30
			10	40	60

Buyer added Bid Specific Additional Scope of Work

S.No.	Document Title	Description	Applicable i.r.o. Items
1	Specification View	Bidder to confirm the offered items as per BHEL specification by giving acceptance on the attached document with sign and seal.	Graphite Electrode-IS:9050(7),Graphite Electrode-IS:9050(35),Graphite Electrode-IS:9050(20)
2	Item Description View	Bidder to confirm the offered items as per BHEL short description by giving acceptance on the attached document with sign and seal.	Graphite Electrode-IS:9050(7)
3	Item Description View	Bidder to confirm the offered items as per BHEL short description by giving acceptance on the attached document with sign and seal.	Graphite Electrode-IS:9050(35)
4	Item Description View	Bidder to confirm the offered items as per BHEL short description by giving acceptance on the attached document with sign and seal.	Graphite Electrode-IS:9050(20)

The uploaded document only contains Buyer specific Additional Scope of Work and / or Drawings for the bid items added with due approval of Buyer's competent authority. Buyer has certified that these additional scope and drawings are generalized and would not lead to any restrictive bidding.

Buyer Added Bid Specific Additional Terms and Conditions

- 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 %.
- Bidder shall submit the following documents along with their bid for Vendor Code Creation:
 - Copy of PAN Card.
 - Copy of GSTIN.
 - Copy of Cancelled Cheque.
 - Copy of EFT Mandate duly certified by Bank.

3. **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.
4. Scope of supply (Bid price to include all cost components) : Only supply of Goods
5. **Nominated Inspection Agency:** On behalf of the Buyer organization, any one of the following Inspection Agency would be conducting inspection of stores before acceptance:
Pre-dispatch Inspection at Seller Premises (applicable only if pre-dispatch inspection clause has been selected in ATC): At Supplier Works
Post Receipt Inspection at consignee site before acceptance of stores: At CFFP, BHEL Haridwar
6. Material Test Certificate Should Be Sent Along with The Supply. The Material Will Be Checked by Buyer's Lab & the Results of the Lab will be the Sole Criteria for Acceptance of the Item.
7. Warranty period of the supplied products shall be 1 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.
8. For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria:
 - a. Purchase Order copy along with Invoice(s) with self-certification by the bidder that supplies against the invoices have been executed.
 - b. Execution certificate by client with order value.
 - c. Any other document in support of order execution like Third Party Inspection release note, etc.

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---