

Bid Document

Bid Details	
Bid End Date/Time	24-02-2021 13:00:00
Bid Opening Date/Time	24-02-2021 13:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	80 (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	85
Item Category	Graphite Electrode
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Additional Doc 1 (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
Primary product category	Graphite Electrode
Time allowed for Technical Clarifications during technical evaluation	2 Days
Inspection Required	No
Estimated Bid Value	11603164
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.

MII Purchase Preference

MII 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.

Graphite Electrode (10 metric tonne)

(Minimum 20% 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)	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 (10 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: 1.68mm (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 Original Manufacturer's Test certificate along with supply of material contain: BHEL PO No., Supplier Name, Batch No. & Serial No., 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 will 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)		
1	Pramod Kumar Mishra	249403,Central Foundry Forge Plant, BHEL, Ranipur, Haridwar	Quantity	Delivery to start after	Delivery to be completed by

			5	30	45
			5	46	75

Graphite Electrode (60 metric tonne)

(Minimum 20% 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)	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 (60 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: 6.7mm (max), Resistivity (micro Ohm-cm): 750-950, 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	Vendor to accept to supply Graphite Electrode as per Physical & Chemical

(/Deg C x 10 ⁻⁷): 10-13, Youngs Modulus (Kg/mm ²): 600-700, Apparent Porosity (%): 26-28, Ash content (% , max): 0.2%, Carbon content: 99.8% (min)	Properties specified to the left without any deviation
Supplier is required to furnish 4 Set of Original Manufacturer's Test certificate along with supply of material contains: BHEL PO No., Supplier Name, Batch No. & Serial No., 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 will 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)		
1	Pramod Kumar Mishra	249403,Central Foundry Forge Plant, BHEL, Ranipur, Haridwar	Quantity	Delivery to start after	Delivery to be completed by
			20	30	45
			20	46	75
			20	76	105

Graphite Electrode (15 metric tonne)

(Minimum 20% 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 (15 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 Supply length above 1600mm will not be accepted
Physical & Chemical Properties Bulk Density: 1.66-1.73 g/cc, Grain size: 6.7mm (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 Original Manufacturer's Test certificate along with supply of material contain: BHEL PO No., Supplier Name, Batch No. & Serial No., 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 will be +/-5%

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

Consignees/Reporting Officer and Quantity

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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
			8	30	45
			7	46	75

Bid Specific Additional Terms and Conditions

- For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria:
 - Purchase Order copy along with Invoice(s) with self-certification by the bidder that supplies against the invoices have been executed.
 - Execution certificate by client with order value.
 - Any other document in support of order execution like Third Party Inspection release note, etc.
- Scope of supply (Bid price to include all cost components) : Only supply of Goods
- 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): BY SELLER AT SELLERS WORKS

Post Receipt Inspection at consignee site before acceptance of stores: FINAL INSPECTION AT CFFP BHEL HARIDWAR
- 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.
- Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 15 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG).Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture of PBG. Seller shall be liable to re-imburse the cost of such service / rectification to the Buyer.
- 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.
- 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.
- 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.
- Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.
- Upload Manufacturer authorization:** Wherever Authorised Distributors are submitting the bid, Manufacturers Authorisation Form (MAF)/Certificate with OEM details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid.
- While generating invoice in GeM portal, the seller must upload scanned copy of GST invoice and the screenshot of GST portal confirming payment of GST.

[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---