

Bid Document

Bid Details	
Bid End Date/Time	20-09-2021 14:00:00
Bid Opening Date/Time	20-09-2021 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	10020009-cffp Haridwar
Total Quantity	2
Item Category	SF6 Circuit Breaker, 145 kV
MSE Exemption for Years Of Experience and Turnover	Yes
Startup Exemption for Years Of Experience and Turnover	Yes
Document required from seller	Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC),Additional Doc 3 (Requested in ATC),Additional Doc 4 (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
Estimated Bid Value	2678600
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

MI Purchase Preference	Yes
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MSE Purchase Preference

MSE Purchase Preference	Yes
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1. If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria". If the bidder is OEM of the offered products, it would also be exempted from the "OEM Average Turnover" criteria. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
2. If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria". If the bidder is OEM of the offered products, it would also be exempted from the "OEM Average Turnover" criteria. In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.
3. 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.
4. 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.
5. 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.
6. 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.

SF6 Circuit Breaker, 145 KV (2 pieces)

(Minimum 50% Local content required for MII compliance)

Brand Type	Unbranded
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Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Bid Requirement (Allowed Values)
GENERIC	Rated Voltage (in kV, r.m.s value)	145
	No. of phase (in Nos.)	3
	Rated Normal Current (n A)	1600
	Rated short-time withstand current (in kA)	40
	Rated peak withstand current (in kA)	100
	Rated duration of short circuit (in seconds)	3
	Rated supply voltage of closing and opening devices and of auxiliary circuits , DC (in Volts)	110
	Rated supply voltage of closing and opening devices and of auxiliary circuits , AC (in Volts)	240/215
	Rated Pressure of compressed gas supply for controlled pressure systems (in MPa)	4
	Rated short-circuit breaking current (in kA)	40
	Rated short-circuit making current (in KA)	100
	Rated operating sequence	O-0.3s-CO-3Min-CO
INSUALTION LEVEL	Rated short-duration power-frequency withstand voltage, Common value (in kV, r.m.s. value)	275

Specification	Specification Name	Bid Requirement (Allowed Values)
	Rated short-duration power-frequency withstand voltage, Across the isolating distance (in kV, r.m.s. value)	265
	Rated lightning impulse withstand voltage Common value (in kV, peak value)	650
	Rated lightning impulse withstand voltage Across the isolating distance (in kV, peak value)	630
CONSTRUCTION	Designed for	Outdoor
	No. of pole (in Nos.)	3
	Arc Quenching medium	SF6 Gas
	Earthing system	Effectively earthed neutral system
	Method of operation	Power operated by a motor, spring charging mechanism
	Mechanical endurance	Class M2 (10000 Operating sequences)
	IP Protection as per IS/IEC:60529:2001 latest (including for cabinet of Operating mechanism with its accessories)	IP64
	Minimum Number of auxiliary switches	6 NC + 6 NO
	Remote control operation	Yes with Manual operation provision for local tripping
	Other additional items / features	Mechanical ON-OFF Indicator
Service Conditions	Max. Ambient air temperature of air (in deg. C)	50
	Maximum altitude (in m)	1000
	Maximum relative humidity (in % age)	95
	Solar radiation up to a level of	1 000 W/m ²
	Maximum wind pressure (kg/M²)	150
	Pollution level	II (Medium)
Availability of Additional type test	Radio interference voltage tests	Yes
	Test report for Verification of the degree of protection	Yes

Specification	Specification Name	Bid Requirement (Allowed Values)
	Test report for Tightness test	Yes
	Test report for EMC tests	Yes
	Test report for Extended mechanical endurance tests on circuitbreakers for special service conditions	Yes
	Test report for Low and high temperature tests	Yes
	Test report for Humidity test	Yes
	Test report for Static terminal load tests	Yes
	Test report for Critical current tests	Yes
	Test report for Short-line fault tests	Yes
	Test report for Out-of-phase making and breaking tests	Yes
	Test to prove operation under severe ice conditions	Yes
	Test report for Single-phase tests	Yes
	Test report for Double earth fault tests	Yes
CERTIFICATION	Installation, testing and demonstration	Yes
	Agreed to furnish complete drawing to Buyer / Consignee on demand	Yes. Provided with AUTO CADD format contains Elevation, Side view, Cross section view, Dimensions of SF6 circuit breaker, Identification of parts, Operating mechanism, Operating cycle, Terminal connectors, Wiring and control diagram, Foundation details, Mounting structures, Spacing of bolts. Supplying with DVD form.

Installation Commissioning and Testing (ICT) details for the above item:

% of Product Cost Payable on Product Delivery	80%
Min Cost Allocation for ICT as a % of product cost	6.98%

Number of days allowed for ICT after site readiness communication to seller

45 Days

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Pramod Kumar Mishra	249403,Central Foundry Forge Plant, BHEL, Ranipur, Haridwar	2	150

Buyer added Bid Specific Additional Scope of Work

S.No.	Document Title	Description	Applicable i.r.o. Items
1	Pre-Qualification Requirement View	Pre-Qualification Requirement	SF6 Circuit Breaker, 145 KV(2)
2	Specification View	Specification: FF/M&S/CDS/SF6/2021-22/01	SF6 Circuit Breaker, 145 KV(2)
3	Annexure - 1 View	Annexure - 1	SF6 Circuit Breaker, 145 KV(2)
4	Schedule - 1 View	Item - 1	SF6 Circuit Breaker, 145 KV(2)

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.
- Installation, Commissioning, Testing, Configuration, Training (if any - which ever is applicable as per scope of supply) is to be carried out by OEM / OEM Certified resource or OEM authorised Reseller.
- 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. OPTIONAL SITE VISIT:

1. The Bidder is advised to visit and examine the installation site and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid. The costs of visiting the site shall be borne by the Bidder. only

2. The Bidder representative shall be allowed entry upon consignee premises for such visits, only upon the express conditions that the Bidder will release and indemnify the Buyer and Consignee against all liabilities arising out of such visit including death or injury, loss or damage to property, and any other loss, damage, costs, and expenses incurred as a result of such visit.

3. The Bidder shall not be entitled to hold any claim against Buyer for noncompliance due to lack of any kind of pre-requisite information as it is the sole responsibility of the Bidder to obtain all the necessary information with regard to site, surrounding, working conditions, weather etc. on its own before submission of the bid.

6. Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.
7. 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.
8. Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods
9. Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.
10. Buyer Added text based ATC clauses
 1. material is required as per specification: FF/M&S/CDS/SF6/2021-22/01. Seller must also provide all services and documents as per specification.
 2. Guarantee certificate and test certificate are required as per specification.
 3. Final inspection will be done at CFFP Store.
 4. Early delivery is acceptable.

5. Payment Terms:

- a) 80% payment of supply value shall be made within 45 days from the receipt of material at BHEL. Balance 20% of supply value plus 100% of the E&C (ITC) portion of PO value will be paid against E&C certificate issued by BHEL.
- b) The estimated percentage of erection & commissioning value is: 6.98% of equipment cost. Total commissioning value should be separately quoted by bidders. Only in case where quoted value is less than the value (in %) specified as above or separate commissioning value are not mentioned in the offer, value for commissioning portion shall be deemed to be considered as the value indicated in as above and accordingly supply value will be adjusted from the quoted value and balance will be released as commissioning payment as per clause no. 1.
- c) Time period for Installation, Commissioning & Testing: 45 days after 1st intimation by BHEL to supplier
- d) For delay in commissioning: The rate of penalty for delayed commissioning shall be @ 0.5% of total PO value per week or part thereof subject to a maximum of 10% of total PO value (Supply + Commissioning). Maximum penalty for delay in supply and commissioning together shall be limited to 15% of total PO value (supply + commissioning).

BHEL will not provide boarding, lodging, travel cost (air ticket or rail ticket or

local transport etc.) to vendor's representative visiting BHEL Haridwar for commissioning.

6. 145 KV, SF6 circuit breaker is required on 132 KV rated line and rating of SF56 is 145 KV.

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---