



## Part A (Techno-Commercial Bid)

## SECTION – I QUALIFYING CRITERIA

### Design, Manufacturing, Supply, Installation, Testing and Commissioning of silent DG Set - 300 KVA

The BIDDER has to compulsorily meet the following requirements to get Qualified for submitting an offer. The Vendor's Response Column has to be necessary filled in by the Bidder in the prescribed format as following:

S. No.	REQUIREMENTS	Bidder to Confirm / Specify
1	1.1 Only those vendors, who have supplied and commissioned at least ONE equipment of Rated capacity as specified in Section IV and such equipment is presently working satisfactorily after commissioning (on the date of opening of Tender), should quote.	
	<b>OR</b>	
	1.2 if such equipment has been supplied to BHEL, then it should be presently working satisfactorily after its commissioning and acceptance (on the date of opening of Tender) in BHEL.	
	1.3 Performance certificate from the customers (preferably 2) regarding satisfactory performance of machines supplied to them should be sent along with technical offer.	
2	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected.	
3	Bids should be submitted by OEMs of DG only (OEM licence shall be submitted along with offer)	

SIGNATURE & SEAL OF TENDERER



**Part A(Techno-Commercial Bid)**

**SECTION – I I**

**Design, Manufacturing, Supply, Installation, Testing and Commissioning of silent DG Set - 300 KVA**

The BIDDER has to give complete details against each clause in the table given below, with additional sheets those may be attached (giving clear reference number) to furnish and cover the requisite details / documents. In case of any deviation the same should be clearly mentioned.

Sl. No.	PARTICULARS	Details to be submitted by Bidder
1	Profile of the Company bringing-out the years of Experience of the BIDDER in the field of manufacture, integration and supply of above mentioned machine	
2	Details on the Firm's Registration and the FINANCIAL STRENGTH of the COMPANY (Balance Sheet for the last 3 years) shall be submitted with the TECHNO- COMML.BID	
3	Details on International Standards / Design Process Codes followed in Design and Manufacture of the Equipment.	
4	Details on SERVICE-AFTER-SALES Set-Up in India including the Addresses of Agents / Service Centers in India. Competency & Experience of the Local Service Agency are to be provided	
5	Any Additional Data to supplement the manufacturing capability of the BIDDER for the subject equipment	

SIGNATURE & SEAL OF TENDERER



Part A(Techno-Commercial Bid)

SECTION – III

Design, Manufacturing, Supply, Installation, Testing and Commissioning of silent DG Set - 300 KVA

The BIDDER has to comply with the following, for accepting the Technical Offer for Scrutiny by the Purchaser:

Sl. No.	Requirements	BHEL Specs	Bidder's comment
1	The BIDDER / VENDOR shall submit the offer in TWO PARTS- <b>Techno-commercial Bid (PART A)</b> and <b>Price Bid(Part B)</b>	Vendor to Confirm/specify	
2	The Offer shall contain a comparative statement of Technical Specifications given by BHEL and the Offer Details submitted by the Bidder, against each clause.	Vendor to Confirm/specify	
3	The BIDDER / VENDOR shall assure a continuous support for the supply of SPARES and SERVICE for Seven Years, from the date of commissioning of equipment at BHEL Works.	Vendor to Confirm/specify	
4	The quotation is to be submitted in <b>Two-Part Bids format</b> i.e. <b>Techno-commercial bid (PART-A)</b> and <b>Price Bid (PART-B)</b> in separate sealed envelopes as per details given below:	Vendor to Confirm/specify	
	(1) <b>Part A( Techno-Commercial Bid) - Section I, Section II, Section III Section IV</b> containing the Technical offer along with all Commercial Terms & Conditions mentioning clearly <b>Delivery Terms, F.O.R./Ex Works, Govt Duties(%), Levies(%), Taxes(%)</b> etc. <b>PLUS Unpriced copy of Part-B (Price Bid)</b> in separate sealed envelope and superscribing on it <b>Part- A(Techno-Commercial Bid) and</b>	Vendor to Confirm/specify	
	(2) <b>Part- B ( Price -Bid)</b> containing <b>only Basic Price</b> , Erection & Commissioning charges ( if any ) in separate sealed envelope superscribing on it <b>Part- B ( Price- Bid) &amp;</b>	Vendor to Confirm/specify	
	(3) And then these two envelopes put inside a Third Big envelope super- scribing Price- Bid And Techno- Commercial Bid against Tender Notice No. ----- Dated----- Due for opening on Dated----- . <b>Offers received in Single Bid or without Techno-commercial or Price bid will not be considered.</b>	Vendor to Confirm/specify	

5	<b>The Techno- Commercial bid &amp; Price- Bid</b> are required to be submitted strictly as per our attached formats. Each page of the BHEL's formats are to be duly signed & stamped by the tenderers at the bottom of formats as a token of un-equivocal acceptance of the terms & conditions of the Tender. <b>Price Bid of only Techno-commercially qualified bidders</b> shall be opened.	Vendor to Confirm/specify	
6	BHEL reserves the right to go for Reverse Auction(RA) and decide L-1 based on the outcome of RA instead of opening price bids submitted by the bidders on its discretion	Vendor to Confirm/specify	
7	Soft copy if any, giving the salient features of the proposed machine with all sub-systems and auxiliaries, and /or showing live-demo of an existing and working machine of similar configuration and capacity may be provided.	Vendor to Confirm/specify	
8	BIDDER has to indicate the Country of Origin for the supply of equipment.	Vendor to Confirm/specify	
9	In case of preliminary qualification of the offer, on technical grounds, the BIDDER may be called for a detailed technical discussion on the original technical offer at BHEL Works, with a 07 days notice period.	Vendor to Confirm/specify	
10	Any <b>Govt. Taxes/ Duties/ Levies</b> to be mentioned as a %age of A/B/C(ref. Part B-Price Bid):		
	(a)Custom Duty ( if applicable) @ % of _____	Vendor to Confirm/specify	
	(b)Excise Duty ( if applicable) @ % of _____	Vendor to Confirm/specify	
	(C) Cess on ( if applicable) @% of _____	Vendor to Confirm/specify	
	(d) Sales Tax against Form C @% of _____	Vendor to Confirm/specify	
	(e) If Any other tax/ levy, mention name & % of _____	Vendor to Confirm/specify	
	(f) Packing & forwarding charges,if any % of _____	Vendor to Confirm/specify	
	(g) Freight charges in % / or amount of _____	Vendor to Confirm/specify	
12	Delivery terms	FOR BHEL Rudrapur	
13	Validity of offer	120 days from the date of Tehchno-commerical bid opening	
14	Delivery period	Within 08-10 weeks from the date of placement of P.O.	

SIGNATURE & SEAL OF TENDERER



# Bharat Heavy Electricals Limited

Enquiry No. :  
 Due Date :  
 Supplier's Ref. :  
 Date :

## Part A (Techno-Commercial Bid) Section IV

### Specification cum Compliance Certificate for 300 KVA SILENT DIESEL GENSET

**Note:-**  
 1. The 'Offered' Column and where applicable, the 'Deviations' & 'Remarks' Column of this format shall be filled in by the Bidder and submitted along with the offer. Inadequate / incomplete, ambiguous or unsustainable information against any of the clauses of the specifications / requirements shall be treated as non-compliance.

2. The offer and all documents enclosed with offer should be in English language only.

Name & Address of the supplier:

Telephone No.

Fax No.

e-mail :

Scope: Design, manufacture, supply, installation, testing & commissioning of 300 KVA SILENT DIESEL GENSET complying with the following specifications.

**Offers of bidders offering higher rating DG set against requirement of 300 KVA shall be acceptable subject to meeting other requirement of tender but without any additional weightage or consideration on price.**

S No.	Description - BHEL's Requirement	Specified	Offered	Deviations	Remarks
<b>1.0</b>	<b>Application, Type &amp; Rating</b>	-			
1.1	Application	Indoor/Outdoor Service			
1.2	Type	Silent			
1.3	Make of DG	Vendor to specify			
1.4	Rating	300 KVA			
1.5	The Generator Set should conform to latest CPCB-II norms & of Prime Power Rating having capability of running continuously in variable load condition for unlimited hours per year and should also have a 10% overload capacity of 1 hour in every 12 hours of operation.	Vendor to Confirm/specify			
<b>2.0</b>	<b>Technical specifications</b>	-			
<b>2.1</b>	<b>Diesel Engine(Compatible with latest CPCB norms)</b>	<b>Make: Cummins / Caterpillar / Volvopenta / Ashok Leyland / Perkins / Kirloskar (Party to confirm that proof of Engine sourced from original Manufacturer shall be submitted alongwith supply)</b>			
2.1.1	No. of Cylinder & Arrangement	Vendor to Confirm/specify			
2.1.2	Type	4-Stroke			
2.1.3	Bore x Stroke (mm x mm)	Vendor to Confirm/specify			
2.1.4	Compression Ratio	Vendor to Confirm/specify			
2.1.5	Capacity	Vendor to Confirm/specify			
2.1.6	Aspiration	Vendor to Confirm/specify			
2.1.7	Displacement	Vendor to Confirm/specify			
2.1.8	Governor/Class(Electronic backed by mechanical/ A1 or higher)	Vendor to Confirm/specify			
2.1.9	Lubricating oil system capacity	Vendor to Confirm/specify			
2.1.10	Coolant capacity (engine + radiator)	Vendor to Confirm/specify			
2.1.11	Total wet weight (engine + radiator)	Vendor to Confirm/specify			
2.1.12	Length x Width x Height (engine)	Vendor to Confirm/specify			
2.1.13	<b>AIR INTAKE SYSTEM</b>	-			
	. Air intake manifold.	Vendor to Confirm/specify			
	. Air cleaner-Dry type	Vendor to Confirm/specify			
	. Vacuum indicator.	Vendor to Confirm/specify			
2.1.14	<b>EXHAUST SYSTEM</b>	-			
	. Turbocharger.	Vendor to Confirm/specify			
	. Flexible connection.	Vendor to Confirm/specify			
	. Exhaust manifold.	Vendor to Confirm/specify			
	. Exhaust silencer – Residential type.	Vendor to Confirm/specify			
2.1.15	<b>Supply and Installation of Exhaust system from DG room to outside upto 1.5 mtr. above DG room rooftop as per CPCB norms including following:</b>	Vendor to Confirm/specify			
	MS Black Pipe complete with Bends & Flanges- 12 mtrs.	Vendor to Confirm/specify			
	Thermal Insulation of exhaust piping with Mineral Wool 50mm thick, wire mesh and 26(approx)gauge aluminum cladding within the DG Room - 12 mtrs. length	Vendor to Confirm/specify			
	MS Rigid support structure for DG set exhaust piping	Vendor to Confirm/specify			
	Cladding for the residential silencers	Vendor to Confirm/specify			
	SS Bellows for end connection of exhaust piping with DG(as per requirement)	Vendor to Confirm/specify			
2.1.16	<b>COOLANT SYSTEM</b>	-			
	. Engine water pump	Vendor to Confirm/specify			
	. Radiator	Vendor to Confirm/specify			
	. Coolant additive concentrate	Vendor to Confirm/specify			



## Bharat Heavy Electricals Limited

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### Part A (Techno-Commercial Bid)                      Section IV Specification cum Compliance Certificate for 300 KVA SILENT DIESEL GENSET

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Name & Address of the supplier:

Telephone No.

Fax No.

e-mail :

Scope: Design, manufacture, supply, installation, testing & commissioning of 300 KVA SILENT DIESEL GENSET complying with the following specifications.

**Offers of bidders offering higher rating DG set against requirement of 300 KVA shall be acceptable subject to meeting other requirement of tender but without any additional weightage or consideration on price.**

S No.	Description - BHEL's Requirement	Specified	Offered	Deviations	Remarks
2.1.17	<b>LUBRICATING SYSTEM</b>	-			
	· Oil Sump	Vendor to Confirm/specify			
	· Engine mounted lub oil pump	Vendor to Confirm/specify			
	· Full flow lub oil filter.	Vendor to Confirm/specify			
	· Lube oil by pass filter	Vendor to Confirm/specify			
2.1.18	<b>FUEL SYSTEM</b>	-			
	· Fuel pump with Electronic Governor	Vendor to Confirm/specify			
	· Injector	Vendor to Confirm/specify			
	· 24V DC Solenoid Coil	Vendor to Confirm/specify			
	· Replaceable fuel filter	Vendor to Confirm/specify			
2.1.19	<b>STARTING SYSTEM</b>	-			
	· 24V DC Electric Starter	Vendor to Confirm/specify			
	· 24V DC battery charging alternator	Vendor to Confirm/specify			
2.1.20	<b>SAFETY CONTROLS</b>	-			
	· Low lube oil pressure trip	Vendor to Confirm/specify			
	· High Water/Coolant temperature trip.	Vendor to Confirm/specify			
	· Overspeed stop	Vendor to Confirm/specify			
2.2	<b>Alternator(Compatible with latest CPCB norms) as per IS:4722</b>	<b>Make: Stamford / Leroy Somer/ Crompton Greaves (Party to confirm that proof of Alternator sourced from original Manufacturer shall be submitted alongwith supply)</b>			
2.2.1	Rated Generating Voltage	415V± 5%			
2.2.2	Output system	3 Phase 4 Wire			
2.2.3	Rated Frequency	50 Hz			
2.2.4	Speed	Vendor to Confirm/specify			
2.2.5	Power Factor - 0.80 to Unity	Vendor to Confirm/specify			
2.2.6	Class of Insulation - H	Vendor to Confirm/specify			
2.2.7	Stator winding	Vendor to Confirm/specify			
2.2.8	Rotor	Dynamically balanced			
2.2.9	Voltage regulation	+/- 1% all load between no load to full load			
2.2.10	Winding connection - Star connection	Vendor to Confirm/specify			
2.2.11	Overload capacity(10% for one hour in any 12 hours of operation without exceeding temperature rise limits specified in when corrected to ambient temperature)	Vendor to Confirm/specify			
2.2.12	Enclosures(Drip proof & screen protected IP-23)	Vendor to Confirm/specify			
2.2.13	The alternator shall be of self-excited, self regulated, self ventilated in brushless design, provided with suitable automatic voltage regulator and shall give rated output at NTP conditions.	Vendor to Confirm/specify			
2.2.14	Horizontal foot mounted single bearing type	Vendor to Confirm/specify			
2.3	<b>Integrated control system</b>	-			
2.3.1	<b>Microprocessor Based integrated Generator Set Controller having following features:</b>	<b>Vendor to Confirm/specify</b>			
2.3.1.1	<b>Controls:</b>	-			
	OFF/MANUAL/ AUTO switch	Vendor to Confirm/specify			
	Emergency stop	Vendor to Confirm/specify			
	Manual Run/ Stop switch	Vendor to Confirm/specify			
	Panel lamp/ lamp test switch	Vendor to Confirm/specify			
	operator adjustment for time delay start/stop	Vendor to Confirm/specify			
	operator adjustment for alternator voltage/ frequency	Vendor to Confirm/specify			



# Bharat Heavy Electricals Limited

Enquiry No. :  
 Due Date :  
 Supplier's Ref. :  
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## Part A (Techno-Commercial Bid) Section IV

### Specification cum Compliance Certificate for 300 KVA SILENT DIESEL GENSET

**Note:-**  
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Name & Address of the supplier:

Telephone No.

Fax No.

e-mail :

Scope: Design, manufacture, supply, installation, testing & commissioning of 300 KVA SILENT DIESEL GENSET complying with the following specifications.

**Offers of bidders offering higher rating DG set against requirement of 300 KVA shall be acceptable subject to meeting other requirement of tender but without any additional weightage or consideration on price.**

S No.	Description - BHEL's Requirement	Specified	Offered	Deviations	Remarks
<b>2.3.1.2</b>	<b>Metering/ Monitoring</b>	-			
	Lubricating oil Pressure	Vendor to Confirm/specify			
	Coolant Temperature	Vendor to Confirm/specify			
	Engine speed	Vendor to Confirm/specify			
	Hours run	Vendor to Confirm/specify			
	Battery Voltage	Vendor to Confirm/specify			
	Current	Vendor to Confirm/specify			
	voltage	Vendor to Confirm/specify			
	KVA & KWH	Vendor to Confirm/specify			
	frequency	Vendor to Confirm/specify			
<b>2.3.1.3</b>	<b>Engine Protection/Warning</b>				
	Common Shutdown	Vendor to Confirm/specify			
	High Coolant temp warning and shutdown	Vendor to Confirm/specify			
	Low lube oil pressure warning and shutdown	Vendor to Confirm/specify			
	Low coolant level shutdown	Vendor to Confirm/specify			
	Overspeed Shutdown	Vendor to Confirm/specify			
	Battery Charging failure indication	Vendor to Confirm/specify			
<b>2.3.1.4</b>	<b>Alternator Protection/Warning</b>	-			
	Over current	Vendor to Confirm/specify			
	Over voltage	Vendor to Confirm/specify			
	Under Voltage	Vendor to Confirm/specify			
	Over & under Hz.	Vendor to Confirm/specify			
	Field overload	Vendor to Confirm/specify			
	excitation fault	Vendor to Confirm/specify			
<b>2.4</b>	<b>AMF Panel</b>	-			
2.4.1	The control panel body will be fabricated out of 14-18 SWG MS Sheet. Panel will be suitable for floor mounting, indoor installation for placement outside the Acoustic Enclosure. Panel enclosure shall be in dust and vermin proof enclosure. Cabling/Wiring/control cabling of Panel with DG shall be done with copper conductor of appropriate size. Cables are ferruled for proper maintenance/checking/wiring of panel. Detachable cable gland plates are provided. AMF panel shall have all the necessary contactors, indicating lights, push buttons.	Vendor to Confirm/specify			
2.4.2	The panel shall comprise in details of the following:	-			
2.4.2.1	Microprocessor based EDO ACB with O/L, S/C, E/F, U/V release along with protection CTs, relays etc.	Vendor to Confirm/specify			
2.4.2.2	Digital Multifunction Meter along with required metering CTs etc.	Vendor to Confirm/specify			
2.4.2.3	Diesel level controller	Vendor to Confirm/specify			
2.4.2.4	Temperature sensor	Vendor to Confirm/specify			
2.4.2.5	Auto,manual selector switch	Vendor to Confirm/specify			
2.4.2.6	Emergency stop	Vendor to Confirm/specify			
2.4.2.7	On delay timer	Vendor to Confirm/specify			
<b>2.5</b>	<b>Acoustic Enclosure</b>	-			
2.5.1	The enclosure shall be in modular construction with the provision to assemble and dismantle easily at site. The enclosure shall be dispatched in dismantled condition.	Vendor to Confirm/specify			
2.5.2	The enclosure is fabricated out of CRCA M.S. sheet of 14-18 SWG.	Vendor to Confirm/specify			
2.5.3	The sheet metal components are hot dipped seven tank pretreated.	Vendor to Confirm/specify			
2.5.4	Enclosure is polyester based powder coated (inside as well outside).	Vendor to Confirm/specify			
2.5.5	Nut, bolts & hardware are Zinc coated or of S.S.	Vendor to Confirm/specify			



# Bharat Heavy Electricals Limited

Enquiry No. :  
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 Date :

## Part A (Techno-Commercial Bid) Section IV

### Specification cum Compliance Certificate for 300 KVA SILENT DIESEL GENSET

**Note:-**  
 1. The 'Offered' Column and where applicable, the 'Deviations' & 'Remarks' Column of this format shall be filled in by the Bidder and submitted along with the offer. Inadequate / incomplete, ambiguous or unsustainable information against any of the clauses of the specifications / requirements shall be treated as non-compliance.

2. The offer and all documents enclosed with offer should be in English language only.

Name & Address of the supplier:

Telephone No.

Fax No.

e-mail :

Scope: Design, manufacture, supply, installation, testing & commissioning of 300 KVA SILENT DIESEL GENSET complying with the following specifications.

**Offers of bidders offering higher rating DG set against requirement of 300 KVA shall be acceptable subject to meeting other requirement of tender but without any additional weightage or consideration on price.**

S No.	Description - BHEL's Requirement	Specified	Offered	Deviations	Remarks
2.5.6	The doors are gasketed with EPDM gaskets to avoid leakage of sound.	Vendor to Confirm/specify			
2.5.7	The door handles are lockable type.	Vendor to Confirm/specify			
2.5.8	Sound proofing of enclosure is done with high quality rock wool/mineral wool confirming to IS 8183, of 100 mm thickness and density at 48 Kg/m <sup>3</sup>	Vendor to Confirm/specify			
2.5.9	The rock wool is further covered with fibre glass cloth and perforated powder coated MS sheet.	Vendor to Confirm/specify			
2.5.10	Specially designed attenuators are provided to control sound at air entry to the container and exit from the container.	Vendor to Confirm/specify			
2.5.11	Adequate ventilation is provided to meet air requirement for combustion and heat removal.	Vendor to Confirm/specify			
2.5.12	Temperature of enclosure does not exceed beyond 5-7°C of ambient temp.	Vendor to Confirm/specify			
2.5.13	The acoustic enclosure shall meet requirements of present applicable latest CPCB (India) norms & shall be suitable to suit Ministry of Environment and Forest (MOEF) & Central Pollution Control Board (CPCB) norms.	Vendor to Confirm/specify			
2.6	<b>Fuel Tank</b>	-			
2.6.1	Fabricated from minimum 14-18 SWG sheet metal	Vendor to Confirm/specify			
2.6.2	Base rail with integral fuel tank provided with drain plug for drainage and air vent /breather and inlet and outlet connection with cleaning provision (Man hole)	Vendor to Confirm/specify			
2.6.3	Capacity shall be min. 450 ltr	Vendor to Confirm/specify			
2.6.4	Inbuilt Base Frame mounted fuel tank with fuel level indicator	Vendor to Confirm/specify			
2.6.5	Fuel consumption @ 75% load with Radiator & Fan	Vendor to Confirm/specify			
2.6.6	Fuel consumption @ 100% load with Radiator & Fan	Vendor to Confirm/specify			
2.6.7	Typical lube oil consumption @ full load	Vendor to Confirm/specify			
2.7	<b>Sealed Maintenance Free Dry Type Battery(IN FULLY CHARGED CONDITION) of suitable ratings for DG</b>	Make: Amarraja/ Exide/Luminous/Okaya/Pulselite			
2.8	<b>Tests &amp; Inspection</b>				
2.8.1	<b>Test reports of Diesel Engine, Alternator &amp; DG</b>	Vendor to Confirm/specify			
2.8.2	<b>Routine Inspection test:</b> for following to be carried out by supplier as per applicable IS to be witnessed by BHEL before dispatch:	-			
2.8.2.1	Operational & Functional Test	Vendor to Confirm/specify			
2.8.2.2	Insulation Test	Vendor to Confirm/specify			
2.8.2.3	HV Test	Vendor to Confirm/specify			
2.8.2.4	Load Test	Vendor to Confirm/specify			
3.0	<b>Installation, Testing and Commissioning of DG at BHEL works</b>				
3.1	The installation includes installation of DG set including fixing of radiator, cooling fans, first filling of Lubricating oil & coolant fixing of exhaust system, vibration dampners(AVM pads), connection of cables, connection of earthing system, installation of acoustic chamber and any other job required to be carried out for installation of the DG SET at BHEL works.	Vendor to Confirm/specify			
3.2	Successful working of full capacity of the DG SET by the supplier shall be considered as part of commissioning.	Vendor to Confirm/specify			
3.3	Tools, Tackles, instruments and other necessary equipments required to carry out all above activities should be brought at installation site by the supplier.	Vendor to Confirm/specify			
3.4	Commissioning spares, required for commissioning of the DG within stipulated time, shall be brought by the supplier on returnable basis.	Vendor to Confirm/specify			
3.5	Portion, if any, of the DG SET, accessories and other supplied items where paint has rubbed off or peeled during transit or erection should be repainted and merged with the original surrounding paint by the vendor. For this purpose, the vendor should supply sufficient quantity of touch-up paint of various colours of paint used.	Vendor to Confirm/specify			
3.6	Schedule of Erection and Commissioning shall be submitted with the offer.	Vendor to Confirm/specify			
3.7	<b>Training</b>				



# Bharat Heavy Electricals Limited

Enquiry No. :  
 Due Date :  
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 Date :

**Part A (Techno-Commercial Bid) Section IV**  
**Specification cum Compliance Certificate for 300 KVA SILENT DIESEL GENSET**

**Note:-**  
 1. The 'Offered' Column and where applicable, the 'Deviations' & 'Remarks' Column of this format shall be filled in by the Bidder and submitted along with the offer. Inadequate / incomplete, ambiguous or unsustainable information against any of the clauses of the specifications / requirements shall be treated as non-compliance.

2. The offer and all documents enclosed with offer should be in English language only.

**Name & Address of the supplier:**

Telephone No.

Fax No.

e-mail :

**Scope: Design, manufacture, supply, installation, testing & commissioning of 300 KVA SILENT DIESEL GENSET complying with the following specifications.**

**Offers of bidders offering higher rating DG set against requirement of 300 KVA shall be acceptable subject to meeting other requirement of tender but without any additional weightage or consideration on price.**

S No.	Description - BHEL's Requirement	Specified	Offered	Deviations	Remarks
3.7.1	Demonstration of all features of the equipment, control system & accessories & training of BHEL operators after installation at BHEL site for efficient and effective use of the equipment by supplier after commissioning of equipment.	Vendor to Confirm/specify			
<b>4.0</b>	<b>Packing</b>				
4.1	Rigid packing for all items of complete machine with all Accessories and other supplied items to avoid any damage/loss in transit. When machine is despatched in containers, all small loose items shall be suitably packed in boxes.	Vendor to Confirm/specify			
<b>5.0</b>	<b>Guarantee</b>				
5.1	Back to back Guarantee from original manufacturers of Diesel Engine and for 12 months from the date of acceptance of the equipment after I&C at BHEL works. During Guarantee period, at least 2 visits per year and/or whenever called by BHEL (within 48 hours of call) by the service engineer of the supplier to be made & the parts, items, spares etc. needing replacement to be replaced by the supplier free of cost. In support a Performance Bank Guarantee of 10% of Basic Value of P.O. valid for 12 months from the date of commissioning will have to be furnished by the supplier	Vendor to Confirm/specify			
<b>6.0</b>	<b>Drawings and documents to be furnished by the tenderer</b>				
	Three sets of following documents (Hard copies) in English language should be supplied along with the machine. Only originals shall be supplied. Photocopies will not be accepted.	Vendor to Confirm/specify			
<b>6.1</b>	<b>Along with the offer</b>				
6.1.1	Technical leaflets of Diesel Engine maintenance & parts list, Alternator, Integrated control panel, AMF panel, Acoustic enclosure and all other major components and BOIs, Test report of DG set conforming to CPCB-II norms from accredited laboratory.	Vendor to Confirm/specify			
<b>6.2</b>	<b>After placement of order</b>				
6.2.1	Outline dimensional drawing showing the general arrangement and indicating the space required for detachable type cable end box, base dimension and details etc.	Vendor to Confirm/specify			
6.2.2	Terminal arrangement, control schematic and wiring diagram, flow diagram of the cooling system.	Vendor to Confirm/specify			
6.2.3	Drawings of major components & other relevant drawing or data necessary for satisfactory installation.	Vendor to Confirm/specify			
6.2.4	Installation, operation and maintenance manual.	Vendor to Confirm/specify			
<b>7.0</b>	<b>Spares</b>				
7.1	Latest Price List of recommended standard/essential mechanical, electrical and electronic accessories & spares for 5 years (including 12 month's Guarantee period) for trouble free operation to be provided by vendor	Vendor to agree			
<b>8.0</b>	<b>General</b>				
8.1	Diesel Genset Model	Vendor to Confirm/specify			
8.2	The electrical components used shall be from reputed international makes such as Siemens / Telemechanique / Merlin Gerin / GE/ ABB / Schenider and shall be in accordance with DIN/IEC Standards.	Vendor to Confirm/specify			
8.3	Dry weight of DG SET	Vendor to Confirm/specify			
<b>8.4</b>	<b>Documentation (Along with supply):- 02 set of following documents shall be provided :-</b>				
8.4.1	O & M Manual of dg having Complete Master List of parts used in the DG set, Electric circuit diagrams	Vendor to submit			
8.4.2	DRGS. of GA of DG	Vendor to submit			
8.4.3	Test Certificates of DG & BHEL inspection report.	Vendor to submit			
8.4.5	Spare parts list of DG	Vendor to submit			

**NOTE: BIDDERS MAY VISIT BHEL-CFP SITE FOR ACTUAL SITE CONDITIONS BEFORE SUBMISSION OF OFFER**