



BHARAT HEAVY ELECTRICALS LIMITED
CORPORATE RESEARCH & DEVELOPMENT DIVISION
VIKASNAGAR, HYDERABAD - 500 093, INDIA

PHONES:23774494 (EXT:9804)

FAX : 91 40 23770698

RD:DP:MPX:F-04

ENQUIRY

Date 01-03-2016

Ref: 281590181

Enquiry for Supply and Installation of 415V,1500 RPM,500 KVA D.G SET

Enquiry No:281590181

Enquiry Date : 01-03-2016

Due Date: 02-04-2016

Indicative Delivery Date : 30-06-2016

Sl.No	Item Description	Unit	Qty
1	Supply of 415V,1500 RPM,500 KVA D.G SET as per enclosed Specifications, scope includes un-loading our Stores.	NO	1
2	Installation and Commissioning of 500 KVA DG Set	LOT	1

Please submit your quotation for the above material in sealed cover superscribed with enquiry no, enquiry date and due date subject to our enclosed terms and conditions. The quotations shall reach us on or before the due date by 12 noon. The tenders can also be dropped in the tender box kept at the security gate,BHEL R&D. In case you are not in position to submit the offer,please send reply suitably specifying the reasons.

Sl.No	Description	Document Ref.
01	Enquiry, General Terms & Conditions, Commercial Terms & Conditions etc.	Volume - 1
02	Technical specifications, Scope of Supply etc.	Volume - 2

Nishanth Polumahanthi
Sr Engineer
nishanth@bhelrnd.co.in

	ENQUIRY & QUALIFYING CRITERIA	Volume - 1 Enquiry No 281590181
Supply and Installation of 415V,1500 RPM,500 KVA D.G SET		

1	Tendor inviting officer / Authority, Designation and Address	Additional General Manager(MM) BHEL R & D, Vikas Nagar (Near Balanagar), Hyderabad -500093
2	Item Description - Qty	1) Supply and Installation of 415V,1500 RPM,500 KVA D.G SET as per enclosed Specifications - 1 NO 2) Installation and Commissioning of 500 KVA DG Set - 1 LOT
3	Enquiry Reference no.	281590181
4	Indicative Delivery Date	30-06-2016
5	Due date, Time and place for submission of tender	02-04-2016 upto 12 noon. Sealed Quotations shall be addressed to AGM(MM), BHEL R & D Division, Vikas Nagar (Near Balanagar), Hyderabad AP,India Pin - 500 093 Quotations can also be deposited in the Tender box located at Security Gate of BHEL R & D BHEL shall not be responsible for any postal/courier delay.
6	Place, Date and time of Tech.Bid opening	Tender Opening Cell (Sangam) BHEL R & D Office. 02-04-2016, 2 PM
7	Mode of Submission of Tender	<p>Please submit your offer in one common sealed cover containing two parts in separate sealed covers as detailed below.</p> <p>1) First Cover shall contain:</p> <ol style="list-style-type: none"> Signed General Terms & Conditions (GTC) Filled and Signed Commercial Terms & Conditions (CTC) Filled and Signed Vendor Specifications against BHEL Specifications (Item wise) Signed commercial bid Copy of Price-bid with price(s) cells blank (un-priced price bid) <p>2) Second cover shall contain Price Bid Containing Price quotes, applicable taxes, installation and/or commissioning charges shall be spelt out clearly taking into account total charges rather than quoting vaguely such as charges per man-day or charges per engineer per day etc.</p> <p>If the price bid was found later to be different from the unpriced pricebid format in any way, the offer will be rejected summarily. The rates shall be quoted both in figures and in words.</p> <p>The offers can also be submitted through e-mail and have to be sent in PDF format (files with PDF extension only). Files having extensions other than PDF like RAR, EXE,JPEG etc. and with external links will not be considered. They have to be sent to e-mail id: 'eoffers@bhelrnd.co.in' only. Copies should not be marked to anyone. If the offers are marked to anyone other than to eoffers, their offer will not be considered.</p> <p>The e-mail offers should have two attachments.</p> <p>1) One attachment shall contain</p> <ol style="list-style-type: none"> Signed General Terms & Conditions (GTC) Filled and Signed Commercial Terms & Conditions (CTC) Filled and Signed Vendor Specifications against BHEL Specifications (Item wise) Signed commercial bid Copy of Price-bid with price(s) cells blank (un-priced price bid) <p>2) Second attachment shall contain Price Bid Containing Price quotes, applicable taxes, installation and/or commissioning charges shall be spelt</p>

		<p>out clearly taking into account total charges rather than quoting vaguely such as charges per man-day or charges per engineer per day etc.</p> <p>The subject of the e-mail should contain Enquiry No, Enquiry Date and Due date.</p>
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	GENERAL TERMS & CONDITIONS (GTC)	Volume - 1 Enquiry No 281590181
Supply and Installation of 415V,1500 RPM,500 KVA D.G SET		

SL.No.	Clause	BHEL REQUIREMENT
1	General	<p>a. All offers must include name of the contact person, phone no/mobile no, Fax no, email-id. Unsigned offers are liable for rejection.</p> <p>b. We, BHEL R&D, is registered with Department of Scientific and Industrial Research (DSIR) for the purpose of availing Customs Duty exemption in terms of Government Notification no.24/2007-Customs dated 01-Mar-2007 & Central Excise Duty Exemption in terms of Government Notification No. 16/2007-Central Excise dated 01-Mar-2007 as amended from time to time. Hence suppliers are requested to submit their bids clearly stating applicable taxes/duties. All foreign quotes will be evaluated with custom duty @ 5.15% for cost comparison.</p> <p>c. Taxes & Duties quoted will be taken for evaluation of landed cost & order placement and no change will be entertained later except in the case of changes made by the government. However please note that we are availing cenvat credit for service tax and hence service tax will be excluded in calculation of landed cost to BHEL. In case any Taxes/ Duties exempted, a self declaration for the same may be attached to the offer. Changes in taxes and duties because of the changes in turn over etc will be to supplier's account.</p> <p>d. Where ever vendor registration form and EFT details have been submitted earlier, the same need not be submitted again unless there is a change.</p> <p>e. BHEL R&D do not issue 'C' form .</p> <p>f. L1 status shall be decided on Cost to BHEL Basis.</p>
2	Late Tenders	Tenders received after due date/time(12:00hrs) will not be considered
3	Discrepancy in words and figures	<p>(a) If, in the price structure quoted for the required goods/ Services/ works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.</p> <p>(b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and</p> <p>(c). If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (a) and (b) above.</p> <p>(d) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.</p>
4	Two Part bid clarifications	In the case of Two-part bid, the vendor should furnish technical and commercial clarifications, if any, within stipulated time mentioned, failing which, it will be construed that the vendor is not interested in the tender and BHEL shall not consider the offer for further evaluation.
5	Price Impacts	In the event of any bidder, after finalizing the technical specifications and scope of supply, opting to revise their original bid, they have to submit the Price-Impact only. The Original price bid along with Price-Impact bid shall be opened during price bid opening. Unsolicited price impacts will not be considered.
6	Price bid evaluation	<p>All offers in price bid opening or reverse auction shall be evaluated in Indian currency based on unit price, packing & forwarding, taxes/duties, freight charges if any, exchange rate. Loading due to non-acceptance of our standard commercial terms.</p> <p>The exchange rate declared by State Bank of India under TT Selling rate on the technical bid open date shall be adopted for evaluating foreign currency bids.</p>
7	Packing	The supplier shall be responsible for the goods being properly and adequately

		packed so as to prevent any loss, damage or deterioration during transit.
8	Withdrawal	In case the supplier withdraws their offer before placement of order, BHEL reserves the right not to send next enquiry(ies). In case the supplier withdraws the quotation after its acceptance by BHEL or fails to supply the goods as per the terms and conditions of contract, or at any time repudiated the contract wholly or in part, BHEL shall be at liberty to cancel the Purchase Order and to recover from the supplier the extra cost and other loss, incidentals due to the breach of contract on the part of the supplier through risk purchase.
9	Risk Purchase	In case of default/late delivery, BHEL reserves the right to make alternate arrangement for procurement at suppliers risk and cost.
10	Banned List	The offers of the bidders who are in the banned list and the offers of the bidders who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website www.bhel.com. Guidelines for suspension of business dealings with suppliers/contractors are available on www.bhel.com under supplier registration page
11	Over All L1	Order will be placed on overall L1 basis. Vendors should quote for all items, otherwise the offer will be rejected.
12	Additional Information	Suppliers are requested to visit our web site regularly for any updates and additional information, "All corrigenda, addenda, amendments, time extensions clarifications, etc. to the tender will be hosted on BHEL website only". The corrigendum will not be published in news paper.
13	Destination	Indian Vendors: Destination shall be Stores, BHEL R&D, Hyderabad. Foreign Vendors: 1) BHEL R.O.D Office, Mumbai, India for sea consignments and 2) BHEL R&D, Hyderabad, India for air consignments.
14	Arbitration	Subject to the jurisdiction of Hyderabad/Secunderabad, Andhra Pradesh, India in respect of any suit or other legal proceedings relating this contract.
15	Inspection	On receipt, the goods shall be subjected to inspection and our decision regarding the acceptability of the goods shall be final and binding on the suppliers.
16	Micro Small Enterprises (MSEs)	<p>MSE suppliers can avail the intended benefits only if they submit along with offer, attested copies of either EM II certificate having deemed validity (Two years from the date of issue of acknowledgement in EM-II) or valid NSIC certificate or EM II certificate along with CA certificate (Format as below) applicable for the year, certifying quantum of investment in plant and machinery within the permissible limit as per the act for relevant status (Micro or small) Where the deemed validity of EM II is over. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission. Non submission of such documents will lead to consideration of their bids at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier till the supplier submits these documents.</p> <p style="text-align: center;">Certificate by chartered Accountant on letter head</p> <p>This is to certify that M/s(hereinafter referred to as 'company') having its registered office at is registered under MSMED Act 2006, (Entrepreneur Memorandum No(Part-II) dtd....., Category.....(Micro/Small). (Copy enclosed).</p> <p>Further verified from the Books of Accounts that the investment of the company as on date..... as per MSMED Act 2006 is as follows :</p> <ol style="list-style-type: none"> For manufacturing Enterprises : Investment in plant and machinery (i.e. Original cost excluding land and building and the items specified by the ministry of small Scale Industries vide its notification No.S.O.1722(E) dated October 5, 2006. For Service Enterprises : Investment in equipment (Original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006: Rs..... Lacs <p>The above investment of Rs..... Lacs is within permissible limit of Rs..... Lacs for.....Micro/Small (Strike off which is not applicable) Category under MSMED Act 2006.</p>

		Date: (Signature) Name- Membership number -- Seal of Chartered Accountant
17	EMD - CAPITAL	<p>1.Submission of earnest money deposit (EMD) along with offer is required. EMD is to be deposited in cash(as permissible under Indian income tax act) or pay-order/Demand Draft drawn in favour of BHEL R&D,Vikasnagar,Hyderabad 500093 only.</p> <p>In case of foreign bidders e-payment shall also be accepted as EMD.</p> <p>Our bank details for e-payment by foreign vendors are: State Bank of India, BHEL(R&D)- Vikas Nagar Branch, Hyderabad, Andhra Pradesh, India; Pin-500093. Cash Credit A/C No: 10202162640 IFSC Code : SBIN0010622</p> <p>2.EMD by the Tenderer will be forfeited as per Tender Document if, the successful bidder/vendor refuses to honour the Order after award of the Contract on him and /or withdraws his bid and /or unilaterally changes the offer and changes the offer and /or any of its terms & conditions with in the validity period.</p> <p>3.EMD given by all unsuccessful Tenderers shall be refunded on acceptance of award /LOI/PO by successful Tenderer. The EMD of successful bidder shall be returned after submission of Contract Execution Bank Guarantee (CEBG).</p> <p>4.EMD shall not carry any interest.</p> <p>5.EMD amount is Rs/INR. 60000</p>
18	Contract execution Bank Guarantee(CEBG)-Capital	<p>CEBG shall be required for all POs where value (Supply +E&C) of each P.O. is estimated to be more than Rupees 20,00,000/- (INR).</p> <p>The successful vendor shall have to furnish a Contract Execution Bank Guarantee (CEBG) for 10% of the Total PO value in the prescribed format within 30 days from the date of P.O. but before L/C opening. CEBG shall be from one of the Consortium Banks of BHEL or from a reputed Bank and confirmed by any Consortium Bank of BHEL . All bank charges on account of issuance and conformation of CEBG whether incurred in India or outside India will have to be borne by the vendor.</p> <p>CEBG shall be kept valid unit 30 days after the date of E&C Certificate, which will be issued on completion of Erection & Commissioning of equipment which includes erection, commissioning, job proving, performance test, training to operators etc. as prescribed in PO.</p> <p>If the supplier fails to submit the CEBG even with in 60 days from the date of PO, BHEL reserves the right to cancel PO & forfeit the EMD given by the supplier. In addition, in such case, action will be initiated in line with extant guidelines for Suspension of Business dealings with Suppliers.</p>
19	Foreign Vendors	<p>BHEL will deal directly with foreign vendors, where ever required, for procurement of goods.However, if the foreign principal desires to avail of services of an Indian agent,then foreign principal should ensure compliance to regulatory guidelines which require mandatory submission of agency agreement (as per *).</p> <p>* The Agency Agreement shall specify 1) Agency commission, 2) Responsibilities of the agent, 3) Territory, 4) Agreement Period</p>
20	Signing & Stamping	Documents of BHEL's all Terms and conditions submitted with the offer shall be signed and stamped in each page of authorized representative of the bidder

Documents submitted with the offer shall be signed and stamped in each page of authorized representative of the bidder

Read and agreed for all the above general terms and conditions

Signature of the bidder with Seal & Date

	COMMERCIAL TERMS & CONDITIONS (CTC)	Volume - 1 Enquiry No 281590181
Supply and Installation of 415V,1500 RPM,500 KVA D.G SET		

SL.No.	Clause	BHEL REQUIREMENT	SUPPLIERS ACCEPTANCE / REMARKS
1	Reverse Auction	<p>BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.</p> <p>In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit „online sealed bid“ in the Reverse Auction. Non-submission of „online sealed bid“ by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.</p>	
2	Two part	<p>Please submit your offer in one common sealed cover containing two parts in separate sealed covers as detailed below.</p> <p>1) First Cover shall contain:</p> <ol style="list-style-type: none"> Signed General Terms & Conditions (GTC) Filled and Signed Commercial Terms & Conditions (CTC) Filled and Signed Vendor Specifications against BHEL Specifications (Item wise) Signed commercial bid Copy of Price-bid with price(s) cells blank (un-priced price bid) <p>2) Second cover shall contain Price Bid Containing Price quotes, applicable taxes, installation and/or commissioning charges shall be spelt out clearly taking into account total charges rather than quoting vaguely such as charges per man-day or charges per engineer per day etc.</p> <p>If the price bid was found later to be different from the unpriced pricebid format in any way, the offer will be rejected summarily. The rates shall be quoted both in figures and in words.</p> <p>The offers can also be submitted through e-mail and have to be sent in PDF format (files with PDF extension only). Files having extensions other than PDF like RAR, EXE,JPEG etc. and with external links will not be considered. They have to be sent to e-mail id: 'eoffers@bhelrnd.co.in' only. Copies should not be marked to anyone. If the offers are marked to anyone other than to</p>	

		<p>offers, their offer will not be considered.</p> <p>The e-mail offers should have two attachments.</p> <p>1) One attachment shall contain</p> <ol style="list-style-type: none"> Signed General Terms & Conditions (GTC) Filled and Signed Commercial Terms & Conditions (CTC) Filled and Signed Vendor Specifications against BHEL Specifications (Item wise) Signed commercial bid Copy of Price-bid with price(s) cells blank (un-priced price bid) <p>2) Second attachment shall contain Price Bid Containing Price quotes, applicable taxes, installation and/or commissioning charges shall be spelt out clearly taking into account total charges rather than quoting vaguely such as charges per man-day or charges per engineer per day etc.</p> <p>The subject of the e-mail should contain Enquiry No, Enquiry Date and Due date.</p>	
3	Validity of Offer	90 days from date of techno-commercial bid opening.	
4	Price basis	<p>The prices shall be firm for entire period of contract.</p> <p>The suppliers shall indicate packing and forwarding charges, if any, separately.</p> <p>All foreign suppliers shall quote the lowest prices on 'FOB-Nearest International Airport/Sea port' basis. An amount of 3% on basic value towards freight and insurance will be added for cost comparison.</p> <p>All Indian suppliers shall quote the lowest prices on 'free delivery at BHEL R&D Stores or F.O.R destination' basis only.</p>	
5	Freight & Insurance	Insurance will be arranged by BHEL in case of FOB basis supplies. In such cases, an amount of 3% towards freight and insurance will be added for cost comparison.	
6	Agency Agreement	<p>Guidelines regarding dealing with Indian agents of foreign suppliers</p> <ol style="list-style-type: none"> BHEL shall deal directly with foreign vendors, wherever required, for procurement of goods. However, if the foreign principal desires to avail of services of an Indian agent, then the foreign principal should ensure compliance to regulatory guidelines which require mandatory submission of agency agreement. It shall be incumbent on the Indian agent and the foreign principal to adhere to the relevant guidelines of government of India, issued from time to time. The agency agreement should specify the precise relationship between the foreign oem and services to be rendered by agent / associate, whether general in nature or in relation to the particular contract, must clearly stated by the foreign supplier / Indian agent. Any payment, which the agent / associate receives in India or abroad from the oem, whether as commission or as a general retainer fee shall be brought out in 	

		<p>record in the agreement and be made explicit in order to incur compliance to the laws of the country.</p> <p>4. Any agency commission to be paid by BHEL to the Indian agent shall be Indian currency.</p> <p>5. When ever Indian agents are representing on behalf of their principals, the relevant authorization letter and agreement copy to be enclosed along with technical bid to consider the offer.</p>	
7	Taxes and duties	<p>All Indian suppliers shall clearly mention current sales tax/VAT,Excise duty and Service Tax etc, if any,payable in addition to the quoted price and indicate applicable rates/percentage,item-wise clearly.The vendors should mention applicable Registration Number(s) specifically in their quotation.The suppliers are requested to submit their bids clearly stating applicable taxes and duties.The quoted taxes/duties will be taken for cost evaluation and order placement and no change will be entertained later except in the case of changes made by the government. Please note that we are availing cenvat credit for service tax and hence service tax will be excluded in calculation of landed cost to BHEL. However Proof of payment of service tax is required to be submitted for reimbursement of the same.</p>	
		<p>Payment</p> <p>1) Through L/C:Please note Payment through Letter of Credit (L/C) is for foriegn currency payments only.</p> <p>Where the payments are through L/C (L/C opening charges shall be loaded for landed cost evaluation), payment of Supply value shall be 80% on dispatch and 20% on issue of E&C Certificate. Payment of E&C Value shall be made against E&C certificate issued by BHEL. E&C certificate shall be issued on satisfactory completion of erection, commissioning, job proving, performance test, training to operators etc, as envisaged in PO. The L/C shall be opened by BHEL as per following:</p> <p>(i) With in 30 days of receipt of acceptable CEBG, an irrevocable unconfirmed L/C will be opened for 30% of the payment towards supply, due on shipment i.e. 24% of the Supply value of PO (30% of 80%)</p> <p>Not earlier than 60 days before the shipment date, the value of this irrevocable unconfirmed L/C would be enhanced from 24% to 80% of the Supply value of PO</p> <p>The above L/C can be negotiated after the Shipment against submission of B/L or AWB and such other documents as mentioned in the in the PO. The above L/C will be valid for a period extending 21 days beyond the shipment date for negotiation of documents.</p> <p>(ii)15 days prior to the scheduled &confirmed arrival of the technicians of supplier with their names, an irrevocable unconfirmed L/C will be opened for a value</p>	

8	Payment terms - Capital	<p>equal to 20% of the Supply value of PO plus 100% of the E&C value of PO. The validity of L/C would be sufficient to cover the period required for the completion of E&C plus 21 days as negotiation period.</p> <p>This L/C can be negotiated after: (a) Completion of E&C of the equipment in BHEL and against E&C certificate issued by BHEL and (b) Submission of Performance Bank Guarantee (PBG) by Supplier in the prescribed Format valid for 30 days beyond the warranty period, from one of the Consortium Banks of BHEL or from a reputed Bank and confirmed by Consortium Bank of BHEL for 10% of total PO Value. The PBG confirmation charges shall be borne by vendor.</p> <p>Under all circumstances, CEBG shall be kept valid till be PBG becomes operational.</p> <p>2 Direct Payment (foreign and Indian Suppliers): In case of direct payment , 80% payment of Supply value shall be made with in 45 days form the date of receipt of material at BHEL. Balance 20% of supply value plus 100% of the E&C portion of PO Value will be paid against E&C certificate issued by BHEL and submission of Performance Bank Guarantee (PBG) valid for 30 days beyond the warranty period by Supplier from any of the Consortium Banks of BHEL for 10% of total PO Value in the prescribed Format. The PBG confirmation charges shall be borne by vendor.</p> <p>3. Bank Guarantee and Loading against non acceptance of BHEL,s Payment Terms: If payment terms as mentioned by BHEL are not agreed by bidder, such bidder have to submit Bank Guarantee at the time of payment/opening of LC in the prescribed Format of the amount, exceeding 80% of the PO value, valid till issue of E&C Certificate for the equipment. However, in no case, payment against dispatch shall exceed 90% of the PO Value.</p> <p>Additionally, for any deviation sought including as mentioned above, in Payment Terms by bidder w.r.t. tender conditions, following loading shall be followed: (A) Benchmark Prime Lending Rate(BPLR) of SBI as applicable on the date of tender opening +2%, for the amount & period of relaxation sought by bidder. (B) On account of payment through LC if insisted by bidder , bank charges shall also be loaded for the deviation in (i) opening of LC by BHEL and (ii) period and amount of LC as per prevailing bank rates.</p>	
9	Time period for Supply and E&C- Capital	<p>1 Bidder should quote time period separately for 'Supply' and 'E&C' of equipment.</p> <p>2 The bidders should quote their earliest schedule for supply and E&C against the schedule indicated in the enquiry. BHEL, however, reserves the right to accept an offer not meeting the enquiry schedule.</p>	
		1 For the purpose of penalty for delay in	


10	Penalty for Delay in supply and E&C-Capital	<p>E&C of the equipment the duration will be reckoned from the date of intimation by BHEL to vendor for readiness of site.</p> <p>2 Penalty on delay in 'Supply' and/or 'E&C' will be applicable to the delays attributed to vendor . Penalty will be considered separately for 'Supply' and 'E&C'.</p> <p>The rate of penalty for delayed Supply shall be @ 0.5% per week of delay of total PO value(Supply+E&C). in supply subject to a maximum of 10% of total PO value (Supply+E&C).</p> <p>The rate penalty for delayed E&C shall be @0.5% per week of delay of total PO Value (Supply+E&C) in E&C subject to a maximum of 10% of total PO value (Supply+E&C)</p> <p>Maximum penalty for delay in Supply and E&C together shall be limited to 15% of total PO value (Supply+E&C).</p> <p>In case PO includes more than one machine, the penalty shall be limited to 0.5% per week of delay on total PO Value(Supply+E&C) for the delayed machine.</p> <p>3 Loading on account of non-acceptance of Penalty for delayed Supply and /or E&C shall be as under: In case any bidder is not accepting the above penalty for delayed Supply and/or E&C, the offer of bidder shall be loaded to the extent to which it is not agreed by the bidder.</p> <p>4 Incase, any shortage is noticed viz-a-viz PO requirement in the main equipment/spares, such shortages shall be replenished by supplier on for destination basis without any cost implication to BHEL i.e. Custom Duty and freight charges etc. up to destination for such short supplies shall be borne by the supplier.</p> <p>5.Supply period indicated by bidder should include reasonable time required for approval of drawings and other inputs form BHEL. In the Techno-Commercial Bid, the bidder shall submit milestones for various activities in co-relation with Supply and E&C period quoted by him.</p>	
11	Weight and Packing Dimensions.	The Supplier shall indicate the shipping weight (Kgs) and dimensions(L x W x H in cms) clearly along with offer.	
12	Nature of Vendor submitting the Offer	OEM / Agent / Representative / Dealer / Distributor / Stockist / Trader / Reseller / Channel Partner/ System Integrator / Any Other (Pl. Specify)	
13	Foreign Suppliers without Indian Agent	To be quoted in Foreign Currency. Purchase Order will be placed on Foreign Supplier.	
14	Foreign Principal availing services of an Indian Agent	<p>Foreign principal should ensure compliance to regulatory guidelines which require mandatory submission of Agency agreement. (as per *)</p> <p>To be quoted in Foreign Currency.</p> <p>Purchase order will be placed on Foreign Supplier.</p> <p>Agency Commission will be paid to Indian</p>	

		<p>Agent in Indian rupees.</p> <p>* The Agency Agreement shall specify 1) Agency commission, 2) Responsibilities of the Agent, 3) Territory, 4) Agreement Period</p>	
15	Indian Agent desirous of quoting imported Equipment	<p>Any Indian Agent desirous of quoting imported Equipment, they should submit the quote in foreign currency along with copy of agency agreement (as per *).</p> <p>To be quoted in Foreign Currency.</p> <p>Purchase order will be placed on Foreign Supplier.</p> <p>Agency Commission will be paid to Indian Agent in Indian rupees.</p> <p>* The Agency Agreement shall specify 1) Agency commission, 2) Responsibilities of the agent, 3) Territory, 4) Agreement Period</p>	
16	Indian Vendor Offering fully imported Equipment	<p>To be quoted in Foreign Currency.</p> <p>Purchase order will be placed on Foreign Supplier.</p> <p>As BHEL R&D is registered with Department of Scientific and Industrial Research (DSIR) for the purpose of availing Customs Duty exemption, BHEL desires to import the equipment from foreign supplier with concessional custom duty.</p> <p>In case if it is not possible to quote in foreign currency for imported items, reasons for the same from OEM to be mentioned</p>	
17	Indian Vendor Offering Equipment with partly imported & partly indigenous Items/Services	<p>Imported Items to be quoted in Foreign Currency.(**)</p> <p>Purchase order for imported items will be placed on Foreign Supplier.</p> <p>Indigenous items/services to be quoted in Indian rupees.(**)</p> <p>Purchase order for indigenous items/services will be placed on Indian Supplier.</p> <p>**</p> <p>1) As BHEL R&D is registered with Department of Scientific and Industrial Research (DSIR) for the purpose of availing Customs Duty exemption, BHEL desires to import the foreign items from foreign supplier with concessional custom duty.</p> <p>2) In case if it is not possible to quote in foreign currency for imported items, reasons for the same from Foreign Supplier to be mentioned.</p> <p>3) Authorisation Letter from Foreign Supplier should be submitted.</p>	
18	Indian Vendor offering Items manufactured / assembled / customized in India with imported/indigenous material/sub components.	<p>Please specify both imported and indigenous content in percentage / customization done.</p>	

Note : All the clauses of the above format should be filled and submitted with the Techno Commercial Bid (Part-1). The filled in BHEL Commercial terms & Conditions format submitted with technical bid, responding to all the clauses duly signed with seal **only shall be considered**. Any other Commercial terms & conditions of bidders entered elsewhere in their offer shall not be considered and are liable for rejection.

Read and understood the above commercial terms and conditions

Signature of the bidder with Seal & Date

		ITEM SPECIFICATIONS		Volume - 2 Enquiry NO 281590181
Supply and Installation of 415V,1500 RPM,500 KVA D.G SET				
SL.No.	Item			
1	Supply and Installation of 415V,1500 RPM,500 KVA D.G SET as per enclosed Specifications			
	sl no	Descriptions	BHEL Specifications	Vendor Specifications/ Deviations
	1	Supply and Installation of 415V,1500 RPM,500 KVA D.G SET	As per enclosed Specifications	
		Pre Dispatch Inspection	Inspection shall be carried out by BHEL.The Vendor shall give minimum of 7 days notice for inspection along with internal test certificates. Pl. mention Time in days required from PDI to Despatch =====	
		Manufactures Test Certificate	Manufacturer's Test Certificate required and shall be provided before dispatch.	
		E&C and Warranty	Shall be quoted separately as optional. All supplied items to be provided with warranty for 12 months from the date of dispatch. In case of items involving erection and commissioning, supplier shall provide warranty for 18 months from date of dispatch or 12 months from erection and commissioning whichever is later.	
2	Installation and Commissioning of 500 KVA DG Set			
	sl no	Descriptions	BHEL Specifications	Vendor Specifications/ Deviations
		Installation & Commissioning charges	Bidder should quote for installation and commissioning charges for the above in one lot/lumpsum/ or Percentage	
		Note on Installation and Commissioning Charges	Installation & Commissioning charges will include services to be rendered at BHEL like erection, commissioning, job proving, performance tests, and on-site training to operators etc. The estimated percentage value of these charges as per BHEL: 7% of Unit price. The Supplier should quote these charges as % of Unit price separately in technical bid. Only in case where quoted value is less than the value (in %) specified above or separate value is not mentioned in the offer, value for Installation and commissioning shall be deemed to be considered as the value indicated above & accordingly supply value will be adjusted from that quoted value and balance will be released as E&C payment as per Payment terms-Capital	

		under Commercial terms and conditions of enquiry.	
G	General Specifications		
	sl no	Descriptions	Vendor Specifications/ Deviations
	1	Annual Maintenance Contract Charges	<p>After completion of standard warranty period, OEM / authorised Indian Agent should provide AMC for period of three years. AMC Charges shall be quoted separately on per year basis in terms of % of equipment cost as detailed below</p> <p>1. % of equipment cost for 1st year 2. % of equipment cost for 2nd year 3. % of equipment cost for 3rd year</p> <p>BHEL reserves the right to release separate AMC order after completion of standard warranty period as per the AMC charges quoted in this bid. The quoted AMC charges will be considered for evaluation of the bid.</p>
2	AMC Payment Terms	Quarter Yearly, after completion of each Quarter year, pro rate. Non-attendance of preventive visit, pro-rate charges shall be deducted.	

* Vendors are advised to write specifications in detail and not to write like 'Complied/ Yes / No ' etc. in specifications.

Signature of the bidder with Seal & Date

BHEL R&D

Terms & Conditions of Reverse Auction

Against this enquiry for the subject item/ system with detailed scope of supply as per enquiry specifications, BHEL may resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING (THROUGH A SERVICE PROVIDER). The philosophy followed for reverse auction shall be English Reverse (No ties).

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit „online sealed bid? in the Reverse Auction. Non-submission of „online sealed bid? by the bidder for any of the eligible items for which techno-commercially qualified, will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.
3. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
4. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
5. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
6. Bidders have to fax the Compliance form (annexure IV) before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.
7. In line with the NIT terms, BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.
8. Reverse auction will be conducted on scheduled date & time.
9. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.
10. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, (Annexure VII) as provided on case-to-case basis to Service provider within two working days of Auction without fail.
11. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL?s standard practice.
12. Bidders shall be required to read the "Terms and Conditions" section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the „Business Rules of Reverse Auction?, which will be communicated before the Reverse Auction.
13. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted.
14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.
15. In case BHEL decides to go for reverse auction, the H1 bidder (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.

AUTHORISATION LETTER FOR E-PAYMENT/ NEFT / RTGS
(PLEASE FILL UP THE FORM COMPLETELY IN CAPITAL LETTERS ON YOUR COMPANY LETTERHEAD ONLY)

Vendor Code (to be filled by BHEL)	
------------------------------------	--

Type of Request (Tick one)	NEW	CHANGE
1 Company Name		
2 Address		
3 City with PIN Code		
4 State		
5 PAN Number		
6 TIN/ VAT No.		
7 CST No.		
8 Service Tax No.		
9 Name of Contact Person		
10 Mobile number		
11 Ph. no. with STD Code		
12 Fax No. with STD Code		
13 Email ID		
14 Website (URL)		

BANK DETAILS FOR EFT / RTGS

1	Bank Name	
2	Branch	
3	Branch Code	
4	Branch Address	
5	Branch Phone No	
6	Account No.	
7	Account Type: SB/ Current/ other (Specify)	
8	MICR Code	
9	IFSC Code	

I, as an authorized representative / owner of the above named company, hereby state as under:

1. Enclosed here with a cancelled cheque in support of our company's bank details.
2. Authorize BHEL R&D Hyderabad, to electronically make payments to the designated bank account with bank charges, if any, to our account.
3. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold BHEL / transferring Bank responsible.
4. I hereby certify that the particulars given above are true, complete and correct.
5. This authority remains in full force until BHEL receives and acknowledge written notification requesting change or cancellation.

Date :
Company
Seal

Authorised Signatory
Designation :



**Corp. R&D
DIVISION
VIKAS
NAGAR,**

RD:MPX:F-13

Bharat Heavy Electricals Limited

HYDERABAD- 500 093 (INDIA)

Ph: 040 - 23772704, Fax: 040 - 23770698, email: mpx@bhelrnd.co.in

VENDOR REGISTRATION FORM

(Indigenous supplier)

[FORM TO BE SUBMITTED* BY THE BIDDER ALONG WITH TECHNICAL-BID]

Before filling, please refer to instructions on page-4

1.0 VENDOR PROFILE:

1.1 Name and address of the vendor:

Phone Nos.:

Fax No.:

Email: 1.

2.

1.2 Local representative name & address in Hyderabad/Secundrabad :

Phone Nos.:

Fax No.:

Email:

Contact Person:

Mobile No:

2.0 TYPE OF ORGANISATION:

PROPRIETORSHIP	Company:	Sister Concern (mention vendor registration number of main organization)	
Partnership	CORPORATION	Small Scale Industry	ANY OTHER(Please specify)

In case of SSI unit, copy of registration to be enclosed. It is requested that MSME registration certificate to be enclosed

3.0 ANNUAL TURN OVER:

#	Year	Turn-Over, Rs.
1	Current Year(budgeted)	
2	Previous year (200 - 0)	
3	Prior Year (200 - 0)	

4.0 NAME AND ADDRESS OF THE BANKER:

- 4.1 Bank Name
 4.2 Branch name
 4.3 Account number
 4.4 Account Type
 4.5 MICR Code:
 4.6 IFSC Code(RTGS/NEFT):
 4.7 Bank Phone number(s),

Blank cheque, duly cancelled, to be enclosed.

Please note that all payments shall be made through Electronic clearance services to your above account against the orders executed, if any.

5.0 REGISTRATION PARTICULARS(relevant copies to be enclosed)

- 5.1 IT Permanent Account No.(PAN):
 5.2 State Sales Tax/VAT Registration No:
 5.3 Central Sales Tax Registration No:
 5.4 ED Registration No:
 5.5 Service Tax Registration No:
 5.6 PF Account No:
 5.7 Labour Licence No:
 5.8 ESI Account No:

6.0 CONTACT PERSON: S/Sri:

Designation:

Phone / Mobile No:

7.0 TOTAL NUMBER OF EMPLOYEES:

Graduates (Engr/Scientists/Mgmt/Fin.)	Consultants	Workers		
		Sup./Skilled	Semiskilled	Unskilled

8.0 LIST OF PRODUCTS/ SERVICES OFFERED:

#	Products/ Services	Capacity
1		
2		
3		
4		
5		
6		

9.0 REFERENCE LIST :

(Only recognized public and private sector companies, attach if printed copy available)

#	Customer	Volume / Year
1		
2		

3		
4		
5		
6		
7		

10.0 INFRASTRUCTURE / FACILITIES:

#	Facility (with specifications)	Age/ Year procured
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

11.0 REGISTRATION WITH OTHER BHEL UNIT/UNITS:

#	Unit	Registration No	Year
1			
2			
3			
4			

12.0 ANY OTHER INFORMATION :**DECLARATION:**

The information furnished above is true and authentic.

(CEO / PROPRIETOR)

SEAL:

DATE:

Note:

1. Registered bidders, having BHEL (R&D) registration no. or have submitted this format for registration, need not furnish this information again.
2. The competent authority reserves the right to accept or reject the registration.
3. Vendors approved for registration will be informed by mail / email, as convenient. A separate communication will be sent in case of non-registration also, citing reasons thereof.
4. BHEL reserves the right to take penal action as deemed fit if any of the information provided by the vendor(s) is found to be incorrect.
5. AGM, Head (MM) may be contacted for clarification/additional information on registration.

Instructions

1. Fill all items. Please mention "N.A." for items/ clauses not applicable.
2. Use A4 sheets for this document and the enclosures. Use of additional sheets is permitted if space provided is not adequate.
3. Attach copies of latest documents in respect of items 5.0 (Registration no.s)
4. Photographs of registered office and the chief executive/proprietor shall be furnished.



RD:MPX:F-14

Bharat Heavy Electricals Limited

Corp. R&D DIVISION

VIKAS NAGAR,

HYDERABAD- 500 093 (INDIA)

SUPPLIER REGISTRATION FORM

(FOREIGN SUPPLIER)

ALL COLUMNS SHOULD BE PROPERLY FILLED IN THE SPACE PROVIDED FOR.WHEREVER IT IS NOT APPLICABLE PLEASE WRITE "NOT APPLICABLE".INCOMPLETE OR INCORRECT FORMS MAY NOT BE CONSIDERED.

1.0 GENERAL INFORMATION:

1.1 NAME OF COMPANY

1.2 DETAILS OF HEAD OFFICE:

ADDRESS :
 TELEPHONE :
 FAX :
 EMAIL :
 WEB SITE :

1.3 DETAILS OF FACTORY/WORKS:

ADDRESS :
 TELEPHONE :
 FAX :
 EMAIL :
 WEB SITE :

1.4 DETAILS OF MARKETING AGENT

ADDRESS :
 TELEPHONE :
 FAX :
 EMAIL :
 WEB SITE :

1.5 CHIEF EXECUTIVE

1.6 CONTACT PERSON(S) FOR PRODUCT OFFERED

NAME(S) :
 OFFICIAL CPACITY :
 ADDRESS :
 TELEPHONE :
 FAX :
 EMAIL :

1.7 YEAR OF ESTABLISHMENT

1.8 PRODUCTION CAPACITY PER ANNUM

1.9 PARTICULARS OF PRODUCT INCLUDING SPECIFICATION AND RANGE OFFERED



Bharat Heavy Electricals Limited

Corp. R&D DIVISION

VIKAS NAGAR,

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Ph: 040 – 23772704, Fax: 040 – 23770698, email: mpx@bhelrnd.co.in

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GUIDE LINES REGARDING DEALINGS WITH INDIAN AGENTS OF FOREIGN SUPPLIERS

- i. BHEL shall deal directly with foreign vendors, wherever required, for procurement of goods. However, if the foreign principal desires to avail of the services of an Indian agent, then the foreign principal should ensure compliance to regulatory guidelines - which require mandatory submission of an Agency Agreement.
- ii. It shall be incumbent on the Indian agent and the foreign principal to adhere to the relevant guidelines of Government of India, issued from time to time.
- iii. The Agency Agreement should specify the precise relationship between the foreign OEM / foreign principal and their Indian agent and their mutual interest in the business. All services to be rendered by agent/ associate, whether of general nature or in relation to the particular contract, must be clearly stated by the foreign supplier/ Indian agent. Any payment, which the agent or associate receives in India or abroad from the OEM, whether as commission or as a general retainer fee should be brought on record in the Agreement and be made explicit in order to ensure compliance to laws of the country.
- iv. Any agency commission to be paid by BHEL to the Indian agent shall be in Indian currency only.
- v. Whenever Indian agents are representing on behalf of their principals the relevant authorisation letter and agreement copy to be enclosed along with Technical bid to consider the offer.



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Bharat Heavy Electricals Limited
Corporate R&D Vikasnagar Hyderabad

Enq281590181
TECHNICAL SPECIFICATIONS
FOR
415V,1500 RPM,500 KVA D.G SET FOR
BHEL Corporate R&D Vikasnagar, Hyderabad

INDEX

SECTION - I	GENERAL SPECIFICATIONS/REFERENCES
SECTION - II	APPLICABLE STANDARDS
SECTION - III	SCOPE OF SUPPLY, INSTALLATION & TECHNICAL SPECIFICATIONS
SECTION - IV	INSPECTION AND TESTING PROCEDURE



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Bharat Heavy Electricals Limited
Corporate R&D Vikasnagar Hyderabad

SECTION - I
GENERAL SPECIFICATIONS

1.1 SITE CONDITIONS :

	UNIT	RANGE
Temperature of ambient air	C	5 to 50
Relative humidity	%	10-75
Plant Elevation above MSL (Assumed)	m	550

1.2 POWER SUPPLY SYSTEM

System voltage /DG OUT PUT	: 415, $\pm 10\%$ System
Frequency	: 50HZ, +5% to -5%
Phase	: 3ph, 4 wire.
System fault level	: 50 kA R.M.S. for 1 sec.
System Grounding	: Solidly Grounded System.
DG SET Neutral Grounding	: Solidly grounded



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SECTION – II
APPLICABLE STANDARDS

- 1) The equipment & accessories covered by this Specification shall be designed, manufactured and tested in accordance with the latest relevant Indian standards and codes of practice.
- 2) The Diesel Engine, Alternator & Electrical Panels & accessories shall also confirm to the latest Electricity Rules AS APPLICABLE & other related statutory agencies as regards safety, Earthing and other essential provisions specified therein for installation and operation at BHEL Corporate R&D Vikasnagar Hyderabad.

Applicable Standards: -

BS : 5514, ISO : 3046 ,SAE J1349, IS - 10000	For Engine
IS- 1271, 2253, 4722, 4728, 4889, 6362, 7132, 7306, 7816, 12065, 12075, 12802, 13364, 13118, IEC- 600 34	For Alternator
IS-5, 1994	Color for ready mixed paints & enamels
IS-5082, 1991	Wrought Aluminum & Aluminum alloy bars, Rods, Tools & Sections for Electrical purpose.
IS-7372, 1995	Lead Acid storage batteries for Motor vehicles.
IS-8923, 1990	Warning Symbol for dangerous voltages.
IS-12065, 1987	Classification of degree of protection provided by enclosures of electrical equipment.

This above list is not exhaustive. Standards not listed above but are applicable also to be followed to meet requirement.



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SECTION - III
SCOPE OF SUPPLY, INSTALLATION & TECHNICAL SPECIFICATION

Description: This specification defines the requirement of design, manufacture, testing & commissioning performance test at site and supply of 1 Nos. of **415V, 500 KVA, 1500 rpm, 50Hz, 0.8 pf, 3ph, 50 degree ambient temp, DG set with its auxiliaries** including engine mounted panel. DG set shall be manufactured & supplied in accordance with Latest CPCB rules regarding reduction of noise level and exhaust height.

A) SCOPE OF SUPPLY AND INSTALLATION FOR EACH 500 KVA DG SET:

S.No.	Description	QTY
1.	DG Set of capacity 500 KVA, 50Hz , 415V, 1500 rpm , complete with engine & Governor coupled with Alternator, AVR/PCC, engine mounted control panel suitable for Electric Starting with Engine mounted radiator on common base frame with Foundation bolt / AVMS, Silencer, bellow & water, fuel, lube oil piping on skid. Alternator with class H Insulation (The Generating Set shall be of 500KVA(e), 1500 RPM, 415V, 0.8 pf (lag) at 45°C ambient, capable of continuous running of 12 hours of which one hour at 10% over load at rated speed, complete with all accessories & Electronic Governor, etc)	1 Set
2.	Fuel day tank of ≥900 Ltr. with necessary piping's	1 Set
3.	Battery for engine starting: Lead – Acid auto motive/ Maintenance free type of suitable capacity (Min. capacity 24V, 180 AH) with MS stand suitable for performing more than six consecutive start of engine without re-charging. In any case continuous cranking for at least one minute shall be possible.	1 Set
4	First fill of Lub oil, JC water and, coolant	1 Lot
5.	Necessary fuel, water, air piping with hardwares, pipe support from engine to equipment fuel tank, air intake etc as required.	1 Set
6.	Exhaust piping, insulation & hangers and Support structure starting from engine meeting CPCB norms.	1 Set
7.	Interconnection and termination of power cable with necessary accessories (Cable glands, Clamps etc.; to be provided by vendor.)- Power cable to be provided by BHEL Supply & Termination of control cable (necessary accessories to be provided by vendor.)	1 Lot
8	Earthing materials such as earthing electrodes with its accessories and hardware for earthing pits, earthing strips and copper wire for equipment body & neutral earthing. This includes earthing strip along the cable tray and safety items such as rubber mat, fire extinguishers, danger boards, buckets, first aid chart etc as required.	1 Lot
9	Acoustic enclosure for DG Set in accordance with Latest CPCB rules, regarding noise level.	1set
10	Unloading at Stores	1 Lot
11	Installation and Commissioning & Testing, load trial of the DG Set, including positioning on test bed from Stores.	1 Lot



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B) DETAILED TECHNICAL SPECIFICATION: DG Set shall automatically start to meet the load requirement in the event of main power failure and shall automatically stop on restoration main power supply.

1.0 DIESEL ENGINE: Direct Injection Charged, After Cooled, Four Stroke, cylinders 12, rated power: 600 BHP (min), water cooled, turbo charged with charge air cooling, manufactured as per BS: 5514 with an overload capacity of 10% for one hour in every 12 continuous operation, and suitable for emergency operation of generating set of 500kVA 50Hz, 415V, 1500 rpm with standard accessories and attachment at site conditions.

1. Engine with all standard accessories
2. Exhaust silencer
3. Engine & Alternator fasteners.
4. Base frame and coupling.

PRODUCT CONSISTS OF:

a) Cooling system: Jacket water cooling system in closed cycle and shall have radiator located in front of engine with fan driven mechanically from engine shaft. Forced water circulation by means of pump driven by engine shaft. Cooling system consists of:

- 1) Radiator
- 2) Engine driven water circulating pump
- 3) Jacket Water Pump, Gear Driven, Centrifugal.
- 4) Radiator fan, fan drive and fan Guard
- 5) Expansion / Make -up water tank
- 6) Thermostat

b) Fuel System : HSD shall be used as fuel for the diesel engines. Fuel system includes fuel day tank, Control valves, PRVs etc. Fuel system shall consists of :

1. Injectors with pump
2. Fuel filters with service indicator
3. Fuel oil manifold with filter
4. Fuel piping and fitting between engine & day tank

c) Lubricating system: Automatic pressure lubrication shall be provided by shaft driven gear type pump through an oil cooler and filter to end bearing, cam shaft bearing etc during DG Sets operation.

Lubrication System shall consist of:

- i. Valves
- ii. Oil pump
- iii. Strainer
- iv. Lube oil cooler
- v. Bypass filter
- vi. Shallow Oil pan
- vii. Crankcase Breather
- viii. Oil Filter

d) Air intake & Exhaust gas System: Complete Air & Exhaust gas system comprising of Intake filters, intake manifold/ exhaust manifold, expansion bellows, exhaust piping,



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bends, fittings shall be provided. Exhaust piping shall meet the minimum pollution control requirements in terms of discharge stack height, emission of SO_x/NO_x etc. Exhaust piping shall be glass wool insulated with Al cladding. Necessary pipes flanges, bends, bolts, nuts, supports and structures for exhaust piping system shall be provided. Drawings for support structure should be furnished to BHEL for approval.

System shall Consists of:

- 1) Dry type filter
- 2) Air intake manifold with necessary connections.
- 3) Turbocharger with after cooler
- 4) Exhaust manifold.
- 5) Flexible piping.
- 6) Residential silencer

e) **Governing System:** Electronic governor class-A1 type as per BS 5514

i. The governor shall be suitable for operation with 24V d.c. without external power supply and will provide adequate speed control. Governor shall have necessary characteristics to maintain the speed substantially constant even with sudden variation in load. However tripping shall be provided if speed exceeds the max. Permissible limit.

ii. An over speed trip device will be provided to automatically shut-off fuel in case the speed exceeds by 10% of the rated value. Over speed sensor shall be adjustable.

f) **Starting system:** Electrical starting System shall consists of

1. Starter Motor
2. Dynamo Alternator
3. Battery ,Battery stand
4. Lead, Cable Lugs etc.

g) **Base frame/ Skid:** The Diesel generator shall be mounted on single structural skid complete with fuel piping, electrical and Instrumentation cabling. The skid shall be designed to ensure convenient operation of all the equipment and accessories. Skid should be sturdy, fabricated, welded construction, channel iron base frame suitable to take the static & dynamic load of the diesel engine and alternator and its accessories mounted on it.

h) **Engine Emission Data:** The Engine shall meet the engine emission data at full / part load

i) **Safety:** All couplings, gears and exposed rotating parts shall be provided with adequate guards.

2 .0 GENERATOR: 500 KVA, 415V, 3ph, 4 wire 50Hz, 0.8pf lag ,1500rpm, Star connected, self regulated and separately/self excited, voltage regulation $\pm 1\%$ of rated voltage, class H insulation, fitted with Automatic voltage regulator , R.T.D, BTD, IP 23 Enclosure, air cooled and with anti condensation heater.

The generator shall be of screen protected drip proof and self air-cooled type. The alternator should conform to the latest standard such as BS: 5000/IS: 4722/IEC 34.



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a) TEMPERATURE DETECTORS RTD / BTD:

Resistance element temperature detectors shall be installed at the following locations:

- i) Six elements of platinum each having a DC resistance of 100 ohms at 0°C, suitably distributed at locations where highest temperature may be expected in stator winding and cases.
- ii) One (1) element in each bearing. The B.T.D's shall comply with the latest edition of IS-2028

b) EXCITATION SYSTEM: The generator shall be provided with complete excitation system capable of supplying the excitation current of generator under all condition of output from no load to full load and capable of maintaining voltage of Generator constant at any value with +/- 10 % of rated value. The type of insulation of the armature field windings of the exciter shall be class-H and the temperature rise shall not exceed the values specified in IEC – 34 for different parts. Exciter power shall be taken from alternator terminals itself, if rotating exciter is not provided. Following type of exciter shall be furnished

- 1) Brush less excitation system.

c) AUTOMATIC VOLTAGE REGULATOR:

1) The regulation system shall be provided with equipment for automatic control. Necessary equipment shall be included for the following:

- i. To prevent automatic rise of field voltage in case of failure of potential supply.
- 2) The regulator shall regulate from generator current and potential signals.
- 3) The regulation equipment shall function correctly between the frequency 47.5 and 52.5 C/S and shall ensure a voltage variation not more than ±1% of the set point in steady operating condition between no loads to full load.
- 4) AVR shall be completely tested and wired.

3.0 Genet Mounted Instruments & Controls: The Controller mounted on the Genet shall be complete with provision for indication of rpm & control of DG Set for start / stop, alarm & annunciation facility. Following shall be provided in this panel

1) Engine Controls & Monitoring:

- 1) Automatic & Manual Start and Stop control
- 2) Engine Control Switch for Off/Reset
- 3) Emergency Stop Push-button

2) Safety Shutdown Protection and LED Indicators for :

- a. Low Oil Pressure
- b. High Coolant Temperature
- c. Over crank
- d. Over speed.

3) Digital Display for :

- a. Coolant Temperature
- b. Oil Pressure
- c. System DC Volts

4) Local gauge panel consist of

- i. Cooling Water temp gauge.
- ii. Lube oil pressure gauge.



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iii. Hour meter with RPM indicator.

5) Local Mounted Instruments:

- Pressure gauges for lube oil system with switches/sensor
- Speed indicator with o/s sensor
- Level sensor gauges for fuel tank
- Local thermometers for cooling water.

4.0 ATTACHMENTS TO THE BASIC GENSET:

Charging Alternator - 24 V,
Flexible Fitting, Exhaust
Flange and Exhaust Expander
Muffler
Primary Fuel Filter
Electric Starting Motor

5.0 SOUND PROOFING SYSTEM: The sound proofing system shall be designed to achieve 75db at 1.0 mtr (or as per relevant norms) distance from DG Set.

The ventilation system shall be of adequate design to ensure no deterioration in performance of DG.

a) **DG Acoustic Enclosure** : The acoustic enclosure shall be provided with suitable space around the DG Set. It shall be fabricated from 1.5 mm THICK CRCA Sheet with ISMC frame of suitable size. The construction shall be modular type to facilitate dismantling as required for maintenance. The ISMC shall be of sufficient stiffness and rigidity.

The sound absorptive layer shall comprise of bonded type PU foam / rock wool / glass wool of adequate thickness and density to comply the design requirements.

All hardware of mild steel shall be electro – galvanized.

The acoustic enclosure shall be of modular construction to facilitate engine removal from any of the side. Necessary provisions shall be made in enclosure and associated ventilation.

The exhaust air from radiator shall be discharged through modular duct duly insulated of adequate size. The duct cross section shall be 1.5 times the cross section of the radiator

APPROVED MAKES OF ITEMS

SL. NO.	ITEM	APPROVED MAKE
1	Engine	Greaves, Perkins, Caterpillar, MTU etc.
2	Alternator	Leroy Somer, Stamford, Crompton greaves BHEL EML etc.



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SECTION IV
INSPECTION AND TESTING PROCEDURE

The DG SET shall be tested at manufacturers work in presence of BHEL Representative for 1 hr. at 10% overload.

The DG Set complete unit along with job accessories & auxiliaries shall be tested at site for 12 hrs at full load & at 10% overload for 1 hr

NOTE

Data sheets and QAP for the following shall be furnished along with the

- a. Engine (As per table 1)
- b. Alternator. (As per table 2)
- c. Gen Set
- d. Day Tank (≥ 900 liters)
- e. Base frame.
- f. Field Quality Plan.
- g. Documentation/Drawings (As per table 3)
Battery & Battery charger



भारत हेवी इलेक्ट्रिकल्स लिमिटेड
Bharat Heavy Electricals Limited
 Corporate R&D Vikasnagar Hyderabad

TABLE – 1

1	Manufacturer	Greaves/Perkins/ CATERPILLAR/ MTU etc.	
2	Engine Model / frame		
3	WT of Engine		
4	Dimension of Engine		
5	O/L Capacity of Engine in %	12 hours continuous of which 110% for 1 hr at every 12 hrs of running	
6	No. of Cylinders & Arrangement		
7	Bore/Stroke		
8	Speed (rpm)		
9	Mean piston Speed(m)/sec		
10	Compression Ratio		
11	Type Combustion Chamber		
12	Rotation viewed from coupling end		
13	Engine cooling	Water Cooled Radiator	
14	Method of starting	Electric Start	
15	Mode of starting	Auto /manual	
16	Mode of stopping	Manual	
17	Cold starting	Required	
18	Rated engine power at operating Site condition in BHP / KW (with engine driving all its ancillaries including radiator fans & Motor Driven Pumps)		
19	Power required for following Auxiliaries driven by Engine		
	Radiator Fan Motor	Fuel Pump	Other Auxiliary (VENDOR TO SPECIFY)



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20	Engine Governing	Class A1 as per BS-5514 with motorized Pot for manual control of frequency from Remote
21	Lube oil consumption	
22	Mechanical Efficiency	
23	Vibration Level	Less than 250 micron
24	Noise Level	
25	Time required for starting from cold to full load	10 to 15 sec
26	Time Intervals between starting impulses	5secs
27	No. of Starting impulses	6
28	Capacity of fuel tank	≥900 ltrs
29	Battery & Battery charger	24 V , 180 AH
30	List of electrical & Mechanical Aux. And their Power consumption	
31	Complete technical literature and catalogue of Engine along with all its accessories including starting device, cooling system, governing system, fuel oil system etc	



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TABLE - 2

Make	LEROY SOMER/ Stamford/ Crompton Greaves BHEL EML etc.
Design ambient	45 deg. C
Alt above MSL	< 1000 MTR
Humidity	75%
Area classification	Safe
Frame designation	
Rated output	500(e) KVA, 12 hours continuous of which 110% for 1 hr at every 12 hrs of running
Applicable Code	NEMA STD'S/ANSI.
Duty	Continuous
Type of driver	Diesel engine
Terminal Voltage	415V
Enclosure	IP 23
Rated P.F	0.8 Lag
Phase/connection/ no. of terminals	3 Phase , 4 Wire
Full load current	
Speed	1500RPM
Rated frequency	50 HZ
Cooling system	Air cooled
Max. permissible inductive loading	
Excitation system	Self excited
Steady state 3 - phase S.C currents	Ratio 0.7
Type of voltage regulator	Automatic Motorized pot for manual control of voltage from remote
3- phase S.C withstand time	
Painting	
Colour shade	
Insulation class	Class H to H
Type of excitation system	Brush less.



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Type of cooling		Air cooled		
Enclosure for terminal box		IP-54		
Continuous parallel operation		Applicable.		
Black start facility		Required		
Generator line side termination		Cable		
Max. permissible impact load				
Method of Drive		Flexible coupling		
Reactances :				
Direct axis transient reactance X_d'				
Direct axis sub transient reactance X_d				
Synchronous reactance X_d				
Zero sequence reactance X_0				
Negative sequence reactance X_2				
Resistances and time constants :				
Armature resistance (25 deg.C)				
Armature resistance (100 deg.C)				
Transient time constant T_d'				
Sub - transient time constant T_d''				
Efficiency	P.F	25% load	75% load	100% load
%	0.8(lag)			
%	Unity P.F			



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TABLE – 3

SL. NO.	DESCRIPTION	DRG./ DOC SIZE	FOR APPROVAL (A) WITHIN 1 WEEKS OF L.O.I.	FINAL SUBMISSION BEFORE DESPATCH
1.	Design calculation for Sizing of DG Set & TVD and sound proofing / Ventilation system.	A4	2sets (I)	1 set +CD
2.	Foundation Drawings with relevant data & details For DG set & Auxiliaries etc	A1/A2	2sets (A)	1 set +CD
3.	OGA / GA Outline / Sectional drawings for Engine, Alternator, Base frame, DG set & Auxiliaries and Acoustic enclosure etc	A0/A1	2 sets (A)	1 set +CD
4.	A) P&I drawings for Fuel& Lub.Oil, and Water circuit B) SLD For Electrical panel	A3/A4	2 sets (A)	1 set +CD
5	GA / OGA , SLD, DOOR DETAIL,BOM, SCHEMATIC, TERMINAL PLAN etc FOR PANEL.	A3/A4	2 sets (A)	1 set +CD
6	Earthing arrangement drawing for all equipment.	A2/A3	2 sets (A)	1 set +CD
7.	Data sheet Diesel Engine & alternator & DG Set, Battery.	A4	2 sets (A)	1 set +CD
8	Cable schedule for Package	A3/A4	2 sets (A)	1 set +CD
9.	Test Certificates	A4	2 sets (A)	1 set +CD
10	Technical catalog with rating curve for component of DG Set and panel. Frequency response for noise absorbing characteristic of acoustic material shall be furnished.	A4	2 sets (I)	1 set +CD
11	O&M, Storage & Erection instruction manual	A4	2 set (I)	1 set +CD
12	Spares Parts Catalogue	A4	2 set (I)	1 set +CD



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OGA/GA DRAWING SHALL CONTAIN FOLLOWING DATA FOR CIVIL ASSIGNMENT AND LAYOUT

Generator dimensional drawing containing:-

1. Elevation
2. Section
3. Foundation / Mounting
This should cover the following information.
 - a) Static loading and dynamic loading.
 - b) Details of Exhaust Silencer with spark arrestor details.
 - c) OGA/GA of fuel tank, Lub Oil priming pumps, Hand priming pump details.
 - d) Location of other auxiliary terminal boxes.
 - e) Location of Heaters.
 - f) Direction of rotation.
 - g) Rating plate.
 - h) Earthing terminals.
 - i) Lifting Hooks with height
 - j) Mounting faces for vibration monitoring sensors
 - k) Protection class for Engine
 - l) Heat loss data i.e. heat dissipation from Engine surface
 - m) Standards

CONTRACT EXECUTION BANK GUARANTEE BOND(CEBG)

(To Be submitted by Successful vendor only, within 30 days of Purchase Order, but before LC opening)

This deed of guarantee made this day of 2015 . by the..... Bank Ltd, (hereinafter referred to as “the Bank”) in favour of Bharat Heavy Electricals Limited, Corporate Research and Development division, Vikasnagar, Hyderabad, Andhra Pradesh, india-500093 having its registered Office at New Delhi with its Unit Office at Hyderabad (herein after called BHEL) where as M/s..... having its registered office at (hereafter called the “the Contractor”) have entered in to contract with BHEL for the supply of vide Purchase Order No dated

1. We Bank Ltd, do hereby undertake to pay to BHEL an amount not exceeding Rs..... against any loss or damage caused to or suffered or would be caused to or suffered by BHEL by reason of any breach by the said Contractor of any of the terms or conditions contained in the said Purchase Order.
2. We, Bank Ltd, do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from BHEL stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by BHEL by reason of any breach by the said Contractor of any of the terms or conditions contained in the said Purchase Order or by reason of the Contractor’s failure to perform the said Purchase Order. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs/.....
3. We, Bank Ltd, further agree to the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Purchase Order and that it shall continue to be enforceable till all the dues of BHEL under or by virtue of the said Purchase Order have been fully paid and its claims satisfied or discharged or till BHEL certifies that the terms and conditions of the said Purchase Order have been fully and properly carried out by the said Contractor and accordingly discharges the guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the we shall be discharged from all liability under this guarantee thereafter. But where such claim or demand has been preferred by the Company with the Bank before the expiry of the said date the claim shall be enforceable and Payable only by any one of the BHEL Consortium Banks in India (List is attached herewith) notwithstanding the fact that the said enforcement is effected after the said date
4. For the purpose of this clause, any letter making demand on the Bank by BHEL dispatched by Registered Post with Ack. Due or by Telegram or by any Electronic media addressed to the Bank (**any one of the BHEL Consortium Banks as per list attached as selected by the vendor**) shall be deemed to be the claim / demand in writing referred to above irrespective of the fact as to whether and when the said letter reaches the Bank, as also any letter containing the said demand or claim is lodged with the Bank personally.
5. We,.....Bank Ltd, further agree with BHEL that BHEL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Purchase Order or to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by BHEL against the said Contractor and to forbear or enforce any of the terms and conditions relating to the said Purchase Order and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor or for any forbearance, act or omission on the part of BHEL or any indulgence by BHEL to the said Contractor or by any such matter of thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.
6. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Hyderabad/ Secunderabad, Andhra Pradesh, India.

We, Bank Ltd, lastly undertake not to revoke this guarantee during its currency except with the previous consent of BHEL in writing.

In witness whereof we..... (indicate the name of Bank) have hereunto setout Bank Seal the..... day
..... month 201

The contact details of the Issuing Bank such as Email ID, Phone No. and Fax No. should be indicated in the CEBG. Also please note that the CEBG should be forwarded to us with the covering letter of the issuing Bank with signature and seal.

-
- (1) It should be typed in the Rs. 100 value of stamp paper.**
 - (2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials**
 - (3) It should be submitted with bank covering letter with sign and seal of the bank official.**

Please note that issuance of the CEBG without meeting the above requirement will render the document invalid.

Performance Bank Guarantee (PBG) format

(To Be submitted by Successful vendor only, after completion of E&C, but before seeking balance payment)

1. THIS DEED OF BANK GUARANTEE MADE THIS DAY OF MONTH OF YEAR ----- by -----
----- (name& address of the BANK) (herein
after called the **BANK**) in favour of M/s Bharat Heavy Electricals Limited, Corporate R&D, Vikasnagar,
Hyderabad - 500 093, Andhra Pradesh, having its registered head office at BHEL House, Siri Fort, New Delhi -
110 049, India (herein after called the **COMPANY**).
2. WHERE AS the **COMPANY** placed a purchase Order on M/s ----- (supplier name)
having registered office at ----- (address)
(hereinafter Called the **CONTRACTOR**) for Manufacture, Supply, Erection & Commissioning of -----
----- vide Purchase Order No.----- dated -----for Rs.----- (Rupees ---
-----only)(hereinafter called the **CONTRACT** (which expression shall
include all amendments thereto).
3. AND WHEREAS one of the conditions for placing such **CONTRACT** is that the **CONTRACTOR** shall provide
the **COMPANY** with **BANK GUARANTEE** to an extent of Rs. ----- (**Rupees** -----
----- **only**) in pursuance and completion of the terms and conditions of the
said **CONTRACT** for the performance of the said **CONTRACT**.
4. AND WHEREAS the **CONTRACTOR** have approached the **BANK** and at their request and in consideration of
the arrangement bond arrived at between the said **CONTRACTOR** and the said **COMPANY**, We, the **BANK**
have agreed to give such **GUARANTEE** (hereinafter called as **GUARANTEE**) mentioned to the aforesaid
COMPANY.
5. NOW therefore, these present witness that, We, the **BANK**, by the hand of Shri, -----, its
lawfully and duly constituted attorney, do hereby undertake to pay without demur to the aforesaid **COMPANY** a
sum of Rs. ----- (**Rupees** ----- **only**) on demand being made by the said
COMPANY and to keep the said **COMPANY** indemnified to the extent of Rs.----- (**Rupees** -----
----- **only**) by virtue of this **GUARANTEE** against any loss/damage caused to
/suffered by the said **COMPANY**, by reason of any breach by the aforesaid **CONTRACTOR** of any of the terms
and conditions, stipulations or undertakings or anyone of them contained in the said **CONTRACT** (s) and the
tender documents and for the payment of any money payable by the said **CONTRACTOR** to the said
COMPANY under the terms and conditions of the said **CONTRACT** (the decision regarding the breach, loss,
damage or payment due being solely in the **discretion** of the said **COMPANY**). We, the **BANK**, further undertake
to pay the aforesaid amount in a lump sum on demand without demur or such part thereof the **COMPANY** may
demand from time to time, irrespective of the fact whether the said **CONTRACTOR** admit, or denies such claims
or questions its correctness in any Court, Tribunal or Arbitration proceedings before any authority.
6. The aforesaid **GUARANTEE** will remain in force and we shall be liable under the same irrespective of any
concession or time, being granted by the said **COMPANY** to the **CONTRACTOR** and the **COMPANY** and
GUARANTEE will **remain in full force** irrespective of any change of terms, conditions or stipulations or any
variations in the terms of said **CONTRACT(S)** irrespective of whether notice of such **change and or variation is**
given to us or not and claim to receive such notice of any change and or variation of terms and conditions of the
said **CONTRACT** (s) is hereby specially waived off by us. Further, we shall not be released from this
GUARANTEE by any forbearance or exercise or non exercise of any of the powers or rights under the said
CONTRACT(S) by the **COMPANY** against the **CONTRACTOR** irrespective of whether notice of such
forbearance, enforcement or non-enforcement of any powers or rights, modifications or change made in said
CONTRACT (s) or concession shown to **CONTRACTOR**

7. The **GUARANTEE** herein contained shall not be determined or affected by the liquidation or winding up or insolvency or change in the constitution of the **CONTRACTOR** but shall in all respects and for all purposes be binding and operative until all payment of all monies due or that may hereafter become due to the said **COMPANY** are settled irrespective of any liability or obligation of the **CONTRACTOR** under the said **CONTRACT**.
8. A reference to this **GUARANTEE** in the **CONTRACT** placed already but pending as on date shall be sufficient to bind the **BANK** in respect of their liability under this **GUARANTEE** and this **GUARANTEE** shall be read as an integral part of the **CONTRACT**.
9. We, the **BANK**, further agree that the **GUARANTEE** herein contained shall remain in full force and effect during the period that would be taken for the performance of the said **CONTRACT** and that it shall continue to be enforceable till all the dues of the **COMPANY** under by virtue of the said **CONTRACT** have been fully paid and its claims satisfied or discharged or till the **COMPANY** certifies that the terms and conditions of the said **CONTRACT** have been fully and properly carried out by the said **CONTRACTOR**.
10. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the courts at Hyderabad/ Secunderabad, Andhra Pradesh-India, only.
11. The **Bank** declares that the BG is enforceable in Hyderabad/ Secunderabad, AP where the **Company** is located, from their branch ----- (Branch address of the Bank). *(this clause is to be incorporated in case the BG is from non-consortium banks)*.
12. AND lastly the **BANK** undertakes not to revoke this **GUARANTEE** during its currency except with the prior consent of the **COMPANY** in writing.
13. The **BANK** declares that it has powers to issue this **GUARANTEE** under the **BANK**'s memorandum and articles of association and the undersigned has full powers to do so on its behalf under the powers of Attorney granted to him by the proper authorities of the **BANK**.
14. Notwithstanding anything to the contrary contained herein before, our liability is restricted to **Rs. ----- (Rupees ----- only)**. This **GUARANTEE** is valid up to **(30 days beyond the warranty period)**----- from the date of execution of this deed and a claim period of **two months** beyond the validity date. Unless a written demand is served under this **GUARANTEE** within **two months** from the end of the above said validity period all the rights of the **COMPANY** under the **GUARANTEE** shall be forfeited and we, the **BANK**, shall be released and discharged from all liability there under.

Dated this ----- Day of ----- Month of Year -----.

 Signature of the person duly
 Authorized to sign on behalf of
 The bank with full address and
 Office seal.

WITNESS:

1

2

CHECK POINTS FOR FURNISHING THE BANK GUARANTEE (BG) AND CEBG

1. The bank guarantee (BG) should be submitted on Rs. 100/- Non judicial stamp paper or part values totaling to Rs.100/-
2. The Non-judicial stamp paper should be purchased by the issuing bank.
3. The BG should be forwarded along with Banker's covering letter, with signature and seal. The contact details of the Issuing Bank such as Contact person(s), designation, Email ID, Phone No. and Fax No. should be indicated in the document
4. All the details in the blanks to be filled by typing, failing which every hand written entry / corrections should be attested with stamp.
5. The executor (bank authorities) is required to mention the power of attorney no. and date of execution in his favour authorizing him to sign the document.
6. Witnesses column should invariably be signed by the bank officials with name and designation.
7. Clear cut claim period of 2 months beyond the validity date, should be provided as per clause 14.
8. BG No. and date should be mentioned in all pages of BG. All pages should be endorsed/ signed by the executor(s)
9. Please note BG. from co-operative banks are not acceptable.
10. BG. from our consortium banks are preferable. (Our consortium banks list is enclosed).
11. **In case of BG. from non consortium bank (private or public sector bank) the clause no. 11 has to be mentioned with full address of the bank's branch at Hyderabad.**
12. In case of BG issued by foreign Bank, it may be confirmed by our consortium bank in India.
13. BG. of other banks (banks other than consortium banks, public sector banks and cooperative banks), can be accepted if their net worth is more than Rs. 500 crores as on last balance sheet date.(a certificate and copy of latest balance sheet to be given by the bank at the time of giving bank guarantee)

List of Consortium Banks

A	Nationalised Banks	B	Public Sector Banks
1	Allahabad bank	20	IDBI
2	Andhra bank	C	Foreign banks
3	Bank of Baroda	21	CITI Bank N.A
4	Canara Bank	22	Deutsche Bank AG
5	Corporation bank	23	The Hongkong and Shanghai Banking Corporation Limited
6	Central bank	24	Standard Chartered Bank
7	Indian Bank	25	The Royal Bank of Scotland N.V.
8	Indian Oversea Bank	26	J P Morgan
9	Oriental bank of Commerce	D	Private bank
10	Punjab National Bank	27	Axis Bank
11	Punjab & Sindh Bank	28	The Federal Bank Limited
12	State Bank of India	29	HDFC
13	State Bank of Hyderabad	30	Kotak Mahindra Bank
14	Syndicate Bank	31	ICICI
15	State Bank of Travancore	32	Indusind Bank
16	UCO Bank	33	Yes Bank
17	Union Bank of India		
18	United Bank of India		
19	Vijaya Bank		