



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

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Ref: 331308381

## ENQUIRY

Date 29-03-2014

### Enquiry for **Supply and Installation of BoS for 250kW Solar Power Plant**

Enquiry No:331308381    Enquiry Date : 29-03-2014    Due Date: 29-04-2014    Indicative Delivery Date : 31-05-2014

Sl.No	Item Description	Unit	Qty
1	Supply and Installation of BoS for 250kW Solar Power Plant	NO	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

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## ENQUIRY & QUALIFYING CRITERIA

Volume - 1  
Enquiry No  
331308381

Supply and Installation of BoS for 250kW Solar Power Plant

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 BoS for 250kW Solar Power Plant - 1 NO
3	Enquiry Reference no.	331308381
4	Indicative Delivery Date	31-05-2014
5	Due date, Time and place for submission of tender	29-04-2014 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. 29-04-2014, 2 PM
7	Mode of Submission of Tender	Please submit your offer in one common sealed cover containing two parts in separate sealed covers as detailed below. 1. First cover shall contain: a. Technical & Commercial bid b. Filled in Commercial Compliance Statement (mandatory) c. Copy of price-bid with price(s) cells blank (un-priced price bid) 2. Second cover shall contain price bid. Price bid containing price quotes ,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. If the price bid was found later to be different from the unpriced price bid format in any way, the offer will be rejected summarily. The rates shall be quoted both in figures and in words.  The offers can also be submitted through e-mail and have to be sent in PDF format to e-mail id: 'eoffers@bhelrnd.co.in' only. Copies should not be marked to anyone. If the copies are marked to anyone other than to eoffers, their offer will not be considered. The e-mail offers should have two attachments. One attachment shall contain a) Technical & Commercial bid b) Filled in Commercial Compliance Statement (mandatory) and c) Copy of price-bid with price(s) cells blank (un-priced price bid). The second attachment shall contain price bid. The subject of the e-mail should contain Enquiry No, Enquiry Date and Due date.



## GENERAL TERMS & CONDITIONS (GTC)

Volume - 1  
Enquiry No  
331308381

Supply and Installation of BoS for 250kW Solar Power Plant

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&amp;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 &amp; 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 &amp; Duties quoted will be taken for cost evaluation &amp; order placement and no change will be entertained later except in the case of changes made by the government. 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&amp;D do not issue 'C' form .</p> <p>f. L1 status shall be decided on Cost to BHEL Basis.</p>
2	Foreign Suppliers	<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 containing agency commission. Any supplier (Agents/distributors/representatives) desirous of quoting imported goods/services, they should submit the quote in foreign currency along with agency agreement copy, failing which their offer is liable for rejection.In case of non submission of agency agreement copy,the principal should submit the quotation to BHEL directly. Foreign supplier will also indicate in their offer Indian agent's name, if any, address and percentage of agency commission out of the quoted price. Fully owned Indian Subsidiaries/distributors of Foreign Companies shall quote in Foreign Currency on FOB basis only.</p>
3	Late Tenders	Tenders received after due date/time(12:00hrs) will not be considered
4	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>
5	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.
		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.

6	Price Impacts	The Original price bid along with Price-Impact bid shall be opened during price bid opening. Unsolicited price impacts will not be considered.
7	Price bid evaluation	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 will be evaluated as per the LOADING FACTORS form as enclosed along with the enquiry.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.
8	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.
9	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.
10	Risk Purchase	In case of default/late delivery,BHEL reserves the right to make alternate arrangement for procurement at suppliers risk and cost.
11	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.
12	Over All L1	Order will be placed on overall L1 basis. Vendors should quote for all items, otherwise the offer will be rejected.
13	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.
14	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.
15	Arbitration	Subject to the jurisdiction of Hyderabad/Secunderabad,Andhra Pradesh,India in respect of any suit or other legal proceedings relating this contract.
16	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.
		<p>In case the supplier belongs to MSEs (Micro Small Enterprises), Registration copy in this respect shall be submitted along with the offer.Further if MSEs are owned by the Scheduled Caste or the Scheduled Tribe entrepreneurs the same may be intimated.</p> <p>The following are the benefits for the MSEs.</p> <p>1.MSEs are given tender documents free of cost and are exempted from payment of earnest money (EMD).</p> <p>2.In tender, participating MSEs quoting price within price band of L1+15% shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a MSE and such MSE shall be allowed to supply up to 20% of total tendered value. In case of more than one such MSE, the supply shall be shared proportionately.</p> <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>Certificate by chartered Accountant on letter head</p>

17	Micro Small Enterprises (MSEs)	<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> <p>1. 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.</p> <p>2. 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> <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> <p>Date:</p> <p>(Signature) Name- Membership number – Seal of Chartered Accountant</p>
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**Signature of the bidder with Seal & Date**



## COMMERCIAL TERMS & CONDITIONS (CTC)

Volume - 1  
Enquiry No  
331308381

Supply and Installation of BoS for 250kW Solar Power Plant

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	Validity of Offer	90 days from date of techno-commercial bid opening.	
3	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' 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&amp;D Stores or F.O.R destination' basis only.</p>	
4	LD Clause	Failure to supply the goods and/or carryout the services within the stipulated delivery date will attract a penalty of 0.5% per week or part thereof for the value of the undelivered portion of the purchase order subject to a maximum of 10% of the total order value.In case of non acceptance to this LD Clause, 10% of basic material cost will be loaded on the quoted prices while cost comparison.(Please refer the enclosed 'Loading Factors' sheet).	
5	Payment Terms	<p>a) For Indian Offers : BHEL standard payment term is "100% payment along with taxes by EFT/RTGS within 30 days of receipt and acceptance of material at BHEL R&amp;D Stores,Hyderabad". For other payment terms there will be a loading on the offer as mentioned in our 'Loading Factors" sheet which is enclosed to this enquiry.</p> <p>b) For Foreign Offers : BHEL standard payment term is "100% Invoice value by wire transfer within 30 days of receipt and acceptance of material at BHEL R&amp;D Stores,Hyderabad". For other payment terms there will be a loading on the offer as mentioned in our "Loading Factors" sheet which is enclosed to this enquiry.All bank charges inside India shall be to BHEL account and outside India shall be to supplier's account.</p>	
6	Freight & Insurance	Insurance will be arranged by BHEL in case of FCA / FOB basis supplies.In such cases ,an amount of 3% towards freight and insurance will be added for cost comparision.	
7	Agency Agreement	<p>Guidelines regarding dealing with Indian agents of foreign suppliers</p> <ol style="list-style-type: none"><li>1. 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.</li><li>2. 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.</li><li>3. 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</li></ol>	

		<p>oem, whether as commission or as a general retainer fee shall be brought out in record in the agreement and be made explicit in order to incurse 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>	
8	Delivery Period	<p>FOR INDIAN SUPPLIES : =====</p> <p>Suppliers are requested to quote for the delivery mentioned in the enquiry. However, in case it is not possible to meet the delivery requirement of BHEL, they shall mention in the right column the best possible delivery period</p> <p>1) From date of Purchase order =====&gt;</p> <p>2) From receipt of material / input data / drawings etc. from BHEL=====&gt; (if applicable)</p> <p>3) From receipt of approval of design documents / drawings etc. by BHEL=====&gt; (if applicable)</p> <p>4) Time from PDI to despatch =====&gt; (if applicable)</p> <p>However BHEL shall inform the vendor about rejection of the offer before price bid opening in case of not meeting the delivery requirements of BHEL.</p> <p>=====</p> <p>FOR FOREIGN SUPPLIES : =====</p> <p>Suppliers are requested to quote for the delivery mentioned in the enquiry. However, in case it is not possible to meet the delivery requirement of BHEL, they shall mention in the right column the best possible delivery period</p> <p>1. From date of Purchase order :=====&gt;</p> <p>2. From receipt of input data / drawings etc. from BHEL=====&gt; (if applicable)</p> <p>3. From receipt of approval of design documents / drawings etc. by BHEL =====&gt; ( if applicable )</p> <p>4. From date of LC Opening=====&gt; ( if applicable)</p> <p>5. From date of PO acceptance =====&gt; (wherever issues like export clearance etc. are involved, mentioning the reasons)</p> <p>However BHEL shall inform the vendor about rejection of the offer before price bid opening in case of not meeting the delivery requirements of BHEL.</p>	
9	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. In case of Service Tax, proof of payment of service tax is required to be submitted for reimbursement of the same.</p>	
		<p>The prices shall be firm for entire period of contract. The suppliers shall indicate packing and forwarding charges,if any, separately.</p>	

10	Price basis	All foreign suppliers shall quote the lowest prices on 'FOB-Nearest International Airport' basis. An amount of 3% on basic value towards freight and insurance will be added for cost comparison. All Indian suppliers shall quote the lowest prices on 'free delivery at BHEL ASSCP,Gurgaon(Near New Delhi),Haryana-122001. or F.O.R destination' basis only.	
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.	

**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 else where in their offer shall not be considered and are liable for rejection.

**Signature of the bidder with Seal & Date**



## ITEM SPECIFICATIONS

Volume - 2  
Enquiry NO  
331308381

Supply and Installation of BoS for 250kW Solar Power Plant

SL.No.	Item			
1	<b>Supply and Installation of BoS for 250kW Solar Power Plant</b>			
	sl no	Descriptions	BHEL Specifications	Vendor Specifications/ Deviations
	A	Introduction	<p>BHEL Corporate R&amp;D is setting up 250 kWp Grid Connected SPV Power Plants at BHEL premises of Corporate R&amp;D Unit,Hyderabad. The site address is BHEL Corporate R&amp;D,Vikasnagar,Hyderabad,Andhra Pradesh-500093. The tentative layout of the site is given in Annexure 1 titled "layout for installation of proposed solar panels" Vendor shall comply with the detailed specifications given below. Vendor is required to furnish clause-wise response for this specification furnished below.</p>	
	B	Scope of supply of vendor		
	1 a	Scope of supply for Module Mounting structures	<p>i)The structure shall be fabricated, supplied as per the drawing enclosed Annexure -2. ii)It shall support SPV modules at a given orientation, absorb and transfer the mechanical loads to the ground properly. iii) These structures shall be with anti-corrosive surface protection. The array structure shall be so designed that it will occupy minimum space without sacrificing the output from SPV panels at the same time. iv)One coat of Al paint shall be applied after assembly but before fixing SPV modules. v)Nut &amp; bolts, supporting structures including Module Mounting Structures shall have to be adequately protected from atmosphere and weather prevailing in the area. The support structure &amp; foundation shall be so designed to withstand speed for wind zone of the location as given in relevant Indian wind load codes/ standards. vi) The frames and leg assemblies of the array structures shall be made of: • MS hot dip galvanized sections Vii) Minimum thickness of galvanization should be at least 120 microns. viii) PV module mounting rafters shall be of Aluminum alloy section. (ix) All Fasteners except foundation bolts shall be of Stainless steel – SS 304. Nut &amp; bolts, supporting structures including module mounting structures shall have to be adequately protected against all</p>	

		climatic condition. (x) For items such as Junction boxes and String Monitoring Units, mounting material shall be hot dip galvanized (120 microns) MS angles of minimum section 35x35x5 with SS 304 hardware. The mounting arrangement is as per the drawing attached Annexure -2	
1 b	Scope of Installation of Module Mounting structures		
	Casting and erection of pedestals at site	Casting and erection of PCC pedestals at site as per BHEL drawing Quantity : 540	
	Assembly and erection of mounting structures on pedestals	Quantity: 90 The SPV module mounting structures are to be mounted on the pedestals as per BHEL drawing Annexure -2)	
	Installation of SPV modules	The SPV modules (supplied by BHEL) are to be fitted on the module mounting structures as per BHEL drawing. Site layout diagram to install structures shall be provided at time of job execution.Refer Annexure -1	
2	Scope of supply for electrical items		
2a	String Control Junction Boxes (SCJB)	Quantity: 45 sets i)One set consists of one SCJB and one surge protection device (SPD).Refer attached Annexure -4 ii)SCJB's shall be made of rust proof material and IP 65 rated. iii)SCJB make: Rittel/ABB/Phoenix Contact/Siemens iv)SPD make: Phoenix -USA/Obo Bettermann-USA/DHEN-UK (Qty: 1 No for 1 set)	
2b	Array Junction Boxes (AJB)	i)One set consists of one AJB and tens numbers each of the following components(Annexure 3): • DC fuses: DC fuses shall be DIN rail mountable, snap on type with fuse failure indication • DC fuse make: L&T/Siemens/Cooper Bussman • String diode: They shall have a forward current of 32 A rated with PIV of 1000V. Heat sink of the diode shall be individual and mounted outside the box for better thermal dissipation by providing proper gasket. (Qty: 10 Nos for 1 set) String diode make: Semikron/Fuji/Usha make. • TBs employed in the junction boxes shall have silver plated contacts to reduce contact losses. The TBs shall be of Phoenix/Wago make. TB shall be mounted on plated din rail C Channel. ii)AJB shall be made of rust proof material and should be	

		<p>IP65 rated. The junction boxes will have suitable cable entry points fitted with nylon/thermoplastic cable glands of appropriate sizes for both incoming and outgoing cables and alternatively the modules may be provided with connector cables. iii) AJB make: Rittel/ABB/Phoenix Contact/Siemens iv)The AJBs shall be mounted at their respective locations onto structural members grouted on PCC foundations .</p>	
3	Eathing material		
3a	PV array structure earthing and transformer earthing	<p>Quantity: 10sets (for PV array)+2 sets(transformer) One set of PV earthing material consists of: • 10mms<sup>2</sup> copper cable which shall be made of annealed multi stranded copper,halogen free,flame retardant,PVC insulated and PVC sheated,temperature resistant (80 C or more),1100V rated,and confirming to IS 1554/IS 694 Make of cables: KEI,UCL,Cable corporation of India limited,NICCO,Polycab,Advance Lapp cables,Finolex Quantity: 50mts for 1 set • Alumininum strips of 25mm (W) x 3 mm(thickness) Quantity: 15 metres for 1 set • Super earth kit: 3 Nos per set</p>	
3b	Copper flat earthing for control cubicles	<p>Quantity: 1 set 1 set of copper flat earthing for control cubicles consists of: • Copper flat of 25 mm(W) x 3 mm (thickness) dimension Quantity: 35 metres per set • Copper plate of 600mm x 600mm x 3 mm Quantity : 3 Nos per set</p>	
3c	Lightening Arrestor (LA) with earthing material	<p>The SPV Power plant should be provided with Lightning and over voltage protection connected to proper earth mats. The main aim of over voltage protection is to reduce the over voltage to a tolerable level before it reaches the PV or other sub-system components. The source of over voltage can be lightning or other atmospheric disturbance. The lightning rod shall produce an upward stream of ionized particles pointing to clouds that will channel the eventual electrical discharge from its origin. Protection radius shall be minimum of 100 m. The Lightning Conductors shall be made as per applicable Indian Standards in order to protect the entire Array Yard from Lightning stroke (Electronic Streamer Emission type). Necessary concrete foundation for holding the lightning conductor in position to be made after giving consideration to maximum wind</p>	

		<p>speed and maintenance requirement at site in future. The lightning conductor shall be earthed through flats and connected to the Earth mats as per applicable Indian Standards with earth pits. Each Lightning Conductor shall be fitted with individual earth pit as per required Standards including accessories, and providing masonry enclosure with cast iron cover plate having locking arrangement, watering pipe using charcoal or coke and salt as per required provisions of IS. Quantity: 1 set LA make: Ingessco/ABB/Phoenix</p>	
4	Weather monitoring unit	<p>i)Weather monitoring unit is to be supplied by the vendor consisting of weather sensors for wind speed, wind direction, ambient temperature, and rainfall and sun irradiation ii)An integrated wind speed and direction measurement unit is to be provided iii)Integrated temperature sensors are to be provided for measuring module temperature and ambient temperature iv)A pyranometer for measuring solar irradiance v)The vendor should provide a portable unit suitable for data logging and data acquisition which will be used for monitoring and recording various parameters of the power plant on DC side and AC side. The unit shall be rugged,robust suitable to operate in control room,shall have i7 processor,4 GB RAM capacity with 19 inch color monitor,DVD drive with writer and UPS with 4 hours back up (vi)A working table is to be provided for placing the unit and the specifications are: 3900 (L) X 750 (W) X 750 (H) in mm, curve or semi-circular table to fit in a rectangular space of 3900 L X 1800 W in mm as shown in the enclosed drawing (Annexure -7) All the panels in the table should be made out of 25 mm thick partial laminated board (PLB) of exterior quality,dully edgebanded with 2mm thick PVC tape. Table can be lengthwise in single or two or three pieces. But, should be available as single width, i.e., Top should be given as single piece. Hardware include screw, minifixes etc., 4 Nos. cable managers should be provided at the center. 4 nos. POPUP type arrangement, each popup box should have one no.15/5 amp socket with Northwest/Legrand switch and LAN point. All these 4 points should be connected to one distribution box/extension box kept at the bottom/side of the table. Internal</p>	

		<p>wiring should be in vendor's scope</p> <p>High back chair with head rest.</p> <p>Synchro mechanism , one position locking,360 degree rotation facility, gas/numatic lift for adjusting the height of the seat. Tension control for adjusting the pressure of the back rest as per individual choice.</p> <p>Adjustable arms with chrome under structure. Nylon base with 5 prong base fitted with twin wheel casters. Indentor should be contacted to decide the table top and chair color at the time of making</p>	
5	Laying of Cables required for entire PV plant , Cable glands and cable termination including consummables like conduits, lugs,terminals etc is in the scope of the vendor		
5a	Intermodule interconnection, connecting SCJB and bringing to AJB	<p>2000 metre cable(2km)of 2 core 1 runs (red and black) of 6 sq.mm armoured cable from series string to AJB and from AJB to SMU, including male female connectors of MC4 type. 20 nos of PV modules shall be connected in series to form string through snap on connectors mounted in each PV module. Each string output will be bought out to one SCJB. From set of 10 SCJB's cables are bought out to one AJB. Same procedure to be replicated for other AJB's. Red cable to be used for positive voltage and black for negative voltage</p>	
5b	1500 metre cable (1.5km) of 1 run 2 Core 95 sq.mm Armored cable from AJB to PCU	<p>Cables drawn from array yard shall be drawn through trench. The maximum side of trench is 0.5 m depth and 0.5 m width. Sand layer of 100mm shall be placed on trench up on which cables are laid. On the laid cables bricks will be placed along the length of trench and covered with excavated earth. At periodic locations along the trench marking plates with inscriptions describing the type of cables shall be installed. PCU is supplied by BHEL.</p>	
5c	installation of weather sensors	<p>The weather sensors are to be mounted in the yard as per instructions of BHEL</p>	
5d	550 metre cable of 400 sq.mm,single core 6 runs from PCU to LV side of 6.6kV transformer & 6.6kV cable from HV side of transformer to 6.6kV VCB	<p>Cables from PCU to transformer shall be drawn through trench. Cables from transformer to VCB shall be drawn through trench. Supply of Transformer is in the scope of BHEL Supply of 6.6kV cable and 6.6kV VCB is in the scope of BHEL</p>	
5e	500 metre cable of 2 core 0.5 sq.mm,shielded cable,for		

	control signals		
6	Water washing arrangement for module cleaning	Vendor shall provide permanent arrangement for module cleaning in the SPV Plant. This shall include installing pump and laying network of GI pipe in each row of SPV Panels. Opening from the GI pipe with manual isolating valves should be provided at regular interval in each row of SPV Panels. Further, Vendor shall provide water piping lines with tap points (ball valve points with nozzles) and flexible hose pipes at each row of the PV array and a pump at suitable location in the PV array field so as to bring water from the storage tank for spraying and cleaning of PV modules on routine basis. Connection shall be provided near switchyard earthing and lightning earthing also.	
7	Foundation for 6.6kV transformer	The supplier shall give the design of foundation and foundation drawings for the installation of 6.6kV outdoor transformer. the supply of transformer is in the scope of BHEL. Details of transformer as per Annexure -8	
8	Miscellaneous	Two working tables along with chairs are to be provided for facilitating the testing of 250kW SPV plant with the PCU (PCU is in scope of BHEL). The specifications of the table are: 1) Table 1 Dimensions (Quantity:1)(Annexure - 7) One arm:1500 L X 750 W X 1050 H mm Another Arm: 2400 L X 750 W X 1050 H in mm Material construction:All the panels in the table should be are made out of 25 mm thick particle laminated board (PLB) board of Exterior quality duly edge banded, on machine. Hardware includes screws, minifixes etc. Electrical arrangements:6 Nos 15/5 Amps 3 pin Electrical socket with Northwest/Legrand switches should be provided. All these points should be brought to common distribution box/extension box. The distribution box should be provided with one neon lamp and fuse.Internal wiring for 6 nos. of socket should be in vendor's scope. Color:Indentor should be contacted to decide table top color at the time of making of table. Mid back chair (Quantity :2) with synchro mechanism, one position locking, gas or numatic lift for adjusting the height of the seat, tension control for adjusting the presuure of the back rest as per choice, adjustable arms with chrome	

		<p>under structure. Seat, back seat and arms should be supported with soft foam. Nylon base with 5 prong base fitted with twin wheel casters. 360 degrees rotation facility. Indentor should be contacted for the selection of color of the chair at the time of delivery. 2) Soldering table and 2 Chairs as per specifications enclosed in the attachment Annexure 9</p>	
9	Notes	<p>All the civil material required for completion of job is in the scope of the vendor All the consummables indicated in Sno 5 are indicative nature only. Supplier need to supply all the items necessary to complete the job. In case any item required for completion of the job is not mentioned in the list, the supplier has to supply the necessary material by giving prior information to BHEL regarding the model no/make of the item. Vendor shall furnish necessary manuals for items such as Lightning arrestor, AJB, SCJB, string diode and fuse, Weather monitoring system etc (wherever applicable) Vendor's responsibility, right and liabilities under this contract will commence from the date of acceptance of the work order The work will have to be carried out in such a manner that will not cause any inconvenience to the other agencies working in the site. After completion of the work, the entire site/area will be cleaned of debris etc. prior to handing over of the site to BHEL. All the materials brought to site has to have proper paper work like DC, Invoice etc. duly verified &amp; signed by BHEL to be submitted to BHEL for payment. Any damage to the buildings/structures/area made by vendor's work men or by vendor's agent will be made good by vendor at vendor's cost. The safety of vendor's work men or vendor's agent is vendor responsibility and risk and necessary Insurance and safety cover shall be taken care by vendor. The work should strictly conform to this specification In case work is not completed as per BHEL scope due to reasons arising out of materials from BHEL end/vendor's end, contractor has to complete the job at later stage without any extra charges. No over run charges shall be paid in case of extension of work schedules. Any miscellaneous materials that have not been</p>	

		mentioned specifically in the specification/tender which are required for I&C of the plant, shall be deemed to be included in the specification and shall be supplied by the vendor without any extra charges. All tools and tackles required for installation, Wiring, Assembly, digging of cable trenches, Earth pits etc., have to be organized by the contractor. Any items like power drilling machine, cutting machine, digging tools & complete set of crimping tools etc have to be organized by vendor All the works shall be executed strictly as per the direction of BHEL engineer at site.	
10	List of drawings enclosed	Layout of plant (Annexure 1) Drawings for module mounting structures (Annexure 2) Drawing for AJB (Annexure 3) Drawing for SCJB (Annexure 4) Drawings for earthing (Annexure 5) Drawing for working table at control room (Annexure 6) Drawing for table for Weather monitoring system (Annexure 7) Drawing of transformer foundation (Annexure 8) Drawing for table for soldering station (Annexure 9)	
	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.	
	Minimum Acceptable Warranty	Supplier shall comply to the minimum acceptable warranty period. The offers of the suppliers not complying to the minimum warranty period will be rejected. The minimum acceptable warranty period is 24 months.	

\* 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**

## LOADING FACTORS



**NOTE : IN CASE OF DEVIATION TO BHEL TENDER SPECIFIED TERMS, LOADING FACTOR INDICATED IN FOLLOWING TABLE WILL BE APPLIED TO QUOTED PRICE WHILE EVALUATING THE LOWEST QUOTE**

A. FOR INDIGENOUS PURCHASES					
SLNO	SCOPE	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
A.1	SUPPLY OF EQUIPMENT	PAYMENT TERMS	100% PAYMENT, WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF MATERIAL AT BHEL R& D	SAME	NIL
				PAYMENT AGAINST PROFORMA INVOICE / DESPATCH DOCUMENTS	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON THE TOTAL PO VALUE FOR ONE MONTH
				FULL ADVANCE PAYMENT WITH BANK GUARANTEE	LOADING @ ( SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON THE TOTAL PO VALUE FOR THE DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH
				PART ADVANCE (X%) PAYMENT WITH BANK GUARANTEE AND BALANCE PAYMENT WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF THE MATERIAL	LOADING @ ( SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH
				PART ADVANCE (X%) PAYMENT WITH BANK GUARANTEE AND BALANCE PAYMENT ON RECEIPT AND ACCEPTANCE OF MATERIAL	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON BALANCE AMOUNT FOR ONE MONTH
				SAME	NIL
A.2	SUPPLY OF EQUIPMENT INCLUDING ERECTION AND COMMISSIONING (E&C)	PAYMENT TERMS	90% PAYMENT, WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF MATERIAL AND BALANCE 10% WITH IN 30 DAYS OF COMPLETION OF E&C.	SAME	NIL
				100% PAYMENT WITH IN 30 DAYS AFTER COMPLETION OF SUPPLIES AND E&C	NIL
				90% PAYMENT AGAINST PROFORMA INVOICE/ DESPATCH DOCUMENT AND BALANCE 10% WITH IN 30 DAYS AFTER COMPLETION OF E&C.	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON 90% OF THE VALUE OF PO FOR ONE MONTH
				90% PAYMENT AGAINST PROFORMA / DESPATCH DOCUMENT AND BALANCE 10% AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON TOTAL VALUE OF THE PO FOR ONE MONTH
				90% ADVANCE PAYMENT WITH BANK GUARANTEE AND BALANCE 10% PAYMENT WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON 90% OF THE PO VALUE FOR DELIVERY PERIOD (ROUNDED OFF TO THE NEAREST MONTH) + 1 MONTH
				PART ADVANCE (X%) PAYMENT WITH BANK GUARANTEE AND (90 - X) % PAYMENT ON RECEIPT AND ACCEPTANCE OF THE MATERIAL AND 10% PAYMENT WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (ROUNDED OF TO THE NEAREST MONTH)+ 1 MONTH AND LOADING @ ( SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON BALANCE (90-X)% AMOUNT FOR ONE MONTH
PART ADVANCE (X%) PAYMENT WITH BANK GUARANTEE AND BALANCE (90 - X) % PAYMENT AFTER RECEIPT AND ACCEPTANCE OF THE MATERIAL AND 10% PAYMENT AFTER COMPLETION OF E&C	LOADING @ ( SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (ROUNDED OFF TO THE NEAREST MONTH)+ 1 MONTH AND LOADING @ (SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON BALANCE AMOUNT (100-X)% FOR ONE MONTH				

B. FOR FOREIGN PURCHASES (IMPORTED)						
SLNO	SCOPE	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS	
B.1	SUPPLY OF EQUIPMENT	PAYMENT TERMS	100% PAYMENT BY WIRE TRANSFER WITHIN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF MATERIAL AT BHEL R&D. (DESPATCH DOCUMENTS WILL BE SENT TO BHEL R&D DIRECTLY ALONG WITH BANK DETAILS)	SAME	NIL	
				SIGHT DRAFT ON PRESENTATION OF DESPATCH DOCUMENTS VIZ INVOICE, AWB ETC TO OUR BANKERS	LOADING @ ( SBI BASE RATE ON TENDER OPENING DATE+6% ) ON THE BASIC VALUE FOR ONE MONTH PLUS PAYMENT RELATED BANK CHARGES INCURRED BY BHEL	
				LC PAYMENT AGAINST DESPATCH DOCUMENTS	LOADING @ ( SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON THE BASIC VALUE FOR ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL	
				FULL ADVANCE PAYMENT BY WIRE TRANSFER /LC WITH BANK GUARANTEE	LOADING @ ( SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON THE BASIC VALUE FOR DELIVERY PERIOD(Rounded off to nearest month) + 1 MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL	
				PART ADVANCE (X%) PAYMENT BY WIRE TRNSFER/LC WITH BANK GUARANTEE AND BALANCE PAYMENT WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF THE MATERIAL.	LOADING @ ( SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL	
				PART ADVANCE (X%) PAYMENT BY WIRE TRNSFER/LC WITH BANK GUARANTEE AND BALANCE PAYMENT ON RECEIPT AND ACCEPTANCE OF MATERIAL	LOADING @ ( SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD (Rounded off to nearest month) + 1 MONTH AND LOADING @ ( SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON BALANCE AMOUNT FOR ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL	
B. FOR FOREIGN PURCHASES (IMPORTED)						
SLNO	SCOPE	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS	
B.2	SUPPLY OF EQUIPMENT INCLUDING ERECTION AND COMMISSIONING (E&C )	PAYMENT TERMS	90% PAYMENT BY WIRE TRANSFER WITH IN 30 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF THE MATERIAL AND BALANCE 10% WITH IN 30 DAYS AFTER COMPLETION OF E&C	SAME	NIL	
				SIGHT DRAFT ON RESENTATION OF DESPATCH DOCUMENTS VIZ INVOICE, AWB ETC TO OUR BANKERS	LOADING @ ( SBI BASE RATE ON TENDER OPENING DATE+6% ) FOR ONE MONTH PLUS PAYMENT RELATED BANK CHARGES INCURRED BY BHEL	
				90 PAYMENT BY WIRE TRANSFER /LC AGAINST DESPATCH DOCUMENTS BALANCE 10% WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ ( SBI BASE RATE ON TENDER OPENING DATE+6% ) ON 90% OF BASIC VALUE FOR ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL	
				90% PAYMENT BY WIRE TRANSFER / LC AGAINST DESPATCH DOCUMENTS. BALANCE 10% AFTER COMPLETION OF E&C	LOADING @ ( SBI BASE RATE ON TENDER OPENING DATE+6% ) ON THE BASIC VALUE FOR ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL	
				90% OF BASIC VALUE AS ADVANCE PAYMENT BY WIRE TRANSFER /LC WITH BANK GUARNTTEE AND BALANCE 10% WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ ( SBI BASE RATE ON TENDER OPENING DATE+6% ) ON 90% OF THE BASIC VALUE FOR DELIVERY PERIOD (Rounded off to nearest month) + ONE MONTH PLUS LC RELATED BANK CHARGES INCURRED BY BHEL	
				PART ADVANCE (X%) PAYMENT BY WIRE TRANSFER /LC WITH BANK GUARANTEE AND BALANCE (90-X)% PAYMENT BY WIRE TRANSFER /LC AFTER RECEIPT AND ACCEPTANCE OF THE MATERIAL AND 10% PAYMENT WITH IN 30 DAYS AFTER COMPLETION OF E&C	LOADING @ ( SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD(Rounded off to the nearest month) + ONE MONTH AND LOADING @ ( SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON BALANCE (90-X)% FOR ONE MONTH	
				PART ADVANCE (X%) PAYMENT BY WIRE TRANSFER /LC WITH BANK GUARANTEE AND BALANCE (90-X)% PAYMENT BY WIRE TRANSFER /LC AFTER RECEIPT AND ACCEPTANCE OF THE MATERIAL AND 10% PAYMENT AFTER COMPLETION OF E&C	LOADING @ ( SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON THE PART ADVANCE AMOUNT (X%) FOR THE DELIVERY PERIOD(Rounded off to the nearest month) + ONE MONTH AND LOADING @ ( SBI BASE RATE ON TENDER OPENING DATE+ 6% ) ON BALANCE AMOUNT (100-X)% FOR ONE MONTH	

C. PENALTY FOR DELAYED DELIVERY (COMMON FOR INDIGENOUS AND IMPORTS)				
SLNO	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
C	LD CLAUSE	IN THE EVENT OF DELAY IN AGREED CONTRACTUAL DELIVERY, PENALTY OF 0.5% ( HALF PERCENT) PER WEEK BUT LIMITED TO A MAX OF 10% OF TOTAL ORDER VALUE WILL BE APPLICABLE	AGREED	NIL
			IF NOT AGREED	LOADING @ 10% OF THE BASIC MATERIAL COST
			IF AGREED FOR X%	LOADING @ ( 10-X)% OF THE BASIC MATERIAL COST
D. GUARANTEE/WARRANTY PERIOD (COMMON FOR INDIGENOUS AND IMPORTS)				
SLNO	COMMERCIAL TERMS	BHEL STANDARD TERM	AS OFFERED	LOADING FACTOR FOR NON COMPLIANCE TO BHEL STANDARD TERMS
D	GUARANTEE/WARRANTY PERIOD	STIPULATED OR REQUIRED GUARANTEE/ WARRANTY PERIOD(X)  MINIMUM ACCEPTABLE GUARANTEE / WARRANTY PERIOD(Y)	AGREED	NIL
			NOT AGREED FOR STIPULATED BUT AGREED FOR MINIMUM GUARANTEE/WARRANTY	LOADING @ 10 % OF THE ORDER VALUE PER ANNUM FOR THE REDUCED GUARANTEE PERIOD (X-Y)

## 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:

- Enclosed here with a cancelled cheque in support of our company's bank details.
- Authorize BHEL R&D Hyderabad, to electronically make payments to the designated bank account with bank charges, if any, to our account.
- 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.
- I hereby certify that the particulars given above are true, complete and correct.
- This authority remains in full force until BHEL receives and acknowledge written notification requesting change or cancellation.

Date :  
Company  
Seal

Authorised Signatory  
Designation :



# Bharat Heavy Electricals Limited

Corp. R&D  
DIVISION  
VIKAS  
NAGAR,

RD:MPX:F-13

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  
FOR REGISTRTION  
(Attach brouchers and catalogues)

1.10 NAME(S) OF BANKERS

1.11 BANKER'S CERTIFICATE

1.12 PORT OF LOADING

1.13 NEAREST AIRPORT

1.14 NAME OF THE INDIAN AGENT, IF ANY  
WITH AUTHORIZATION LETTER

**2.0 FINANCIAL INFORMATION:**

2.1 TOTAL CAPACITY

2.2 ANNUAL TURN OVER FOR LAST 3 YEARS

2.3 WHEHER CREDIT LICENSE ACCEPTABLE      YES/NO

**3.0 QUALITY MANAGEMENT SYSTEMS**

ENCLOSED FORMAT PART-B

3.1 EXPERIENCE LIST FOR SAME/ SIMILAR ITEMS  
TO BE ENCLOSED

**4.0 FUTURE EXPANSION PLANS:**

(Give details)

**5.0 LIST OF ENCLOSURES:**

(Including brouchers, catalogues, technical literature etc)

**6.0 ANY OTHER INFORMATION:**

SIGNATURE OF SUPPIER (Authorized signatory)

NAME :

DESIGNATION :

DATE :

OFFICIAL SEAL

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Note:

1. BHEL Reserves the right to take penal action as deemed fit if any of the information provided by the vendor is found to be incorrect.
2. Please attach separate sheets, if space found is inadequate



# **Bharat Heavy Electricals Limited**

**Corp. R&D DIVISION**

**VIKAS NAGAR,**

**HYDERABAD- 500 093 (INDIA)**

RD:MPX:F-13

**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.