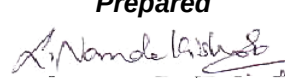


			PURCHASE SPECIFICATION FOR 1250kW GRID-CONNECTED POWER CONDITIONING UNITS FOR 75MW(AC) SPV POWER PLANT AT GIPCL-CHARANKA		PS 439-1187
					REV. No. 01
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COPY RIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest of the company.		Technical specification for Supply, installation and commissioning of 1250kW 3-phase Grid-connected Power conditioning units for 75MW (AC) Solar Photovoltaic Power Plant at GIPCL–Charanka, Gujarat			
		R01 dated 27.04.2018 Changes highlighted In Blue	Approved: Prachi Rao V 		
			Prepared  L. Nanda Kishore	Issued SC&PV-Engg	Date 10.04.18

PURCHASE SPECIFICATION FOR
1250kW GRID-CONNECTED POWER CONDITIONING UNITS
FOR 75MW(AC) SPV POWER PLANT AT GIPCL-CHARANKA

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INTRODUCTION:

Bharat Heavy Electricals Limited (BHEL), Electronics Division, Bangalore is setting up a 75MW(AC) Grid-connected SPV Power Plant at GIPCL-Charanka Solar Park, Gujarat.

This technical specification provides details of supply of 1250kW 3-phase Grid-connected Power Conditioning Units (PCU). The scope also includes commissioning of the supplied units at the project site for synchronizing the generated ac power with LV side of a transformer that connects to 33kV grid on HV side.

1.0 Scope of supply

SL No	Item Description	Qty
1.1	Supply of 1250kW (minimum), 3-phase, Grid-connected Power Conditioning Unit (PCU). Note: 1 no "PCU" includes Inverter Panel, DC Combiner Panel and AC Combiner Panel	60 nos
1.2	Supply of External ducts or heat exchangers (to meet the thermal / exhaust / air-flow requirement of the panel)	60 sets
1.3	Supply of Spares for 1250kW power conditioning units. List of items with quantity is as follows: 1) Control Cards for PCU Quantity = 2 sets of each type 2) Fuses Quantity = 5 sets of each type and rating 3) Fuse holder Quantity = 4 sets of each type and rating 4) Surge Protection Device Quantity = 5 sets of each type and rating 5) Tripping and closing coil of ACB of AC side Quantity = 3 sets 6) IGBT Stack assembly with drivers Quantity = 1 set 7) SMPS Power Supply Quantity = 1 set 8) Cooling Fan Quantity = 2 sets of each type and rating 9) DC Switch Disconnecter, AC Contactor, MCB, MCCB Quantity = 1 set of each type and rating Notes: (a) 1 SET = Total Quantity of items used in 1 PCU (b) The above spare quantities are for contingency purposes over and above the warranty requirements. (c) Item-wise quantity and break-up prices shall be provided in the offer.	1 set

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COPY RIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest of the company.	1.4	Commissioning of PCUs along with Training at site. BHEL scope of activities at site for installation and commissioning: (1) Movement and positioning of PCU panels at the earmarked position in the control room. (2) Crimping the incoming (DC side) and outgoing (AC side) cables (BHEL supply) using the cable lugs provided by the vendor. (3) Connecting at the respective termination ends of the panels using the cable glands and fastening hardware (nuts, bolts, washers etc) provided by the vendor. Vendor scope of activities at site for commissioning: (1) All the electrical checks that are required to confirm that solar DC parameters (current, voltage) are available at the DC input side of PCUs. (2) Service engineers shall be present at site during commissioning of power plant, providing all necessary guidance and support to achieve successful synchronization of PCU output with grid and also to trouble-shoot / resolve the technical problems associated with PCU. Commissioning / Service Engineer shall be from OEM. (3) Guidance and support to BHEL team, at the time of installation and commissioning of SCADA, in respect of connection of communication cables to PCUs and technical problems related to receiving data signals at SCADA station from PCUs. (4) Training: Vendor shall provide training at site to BHEL and customer's engineers during commissioning. Training shall cover various technical aspects such as functional/ operational features, trouble-shooting procedures, maintenance schedules, requirements, safety, emergency precautions etc. Both the theory and practical (hands on) training shall be covered. Note: Supply and installation of integrated SCADA system for the overall power plant is within BHEL scope. A single lump-sum price on per-PCU basis shall be offered. The lump-sum price shall include all the costs that will be incurred by the vendor towards commissioning including travel, boarding, lodging and any other contingency expenses.			60 sets
	1.5	Installation and commissioning of external ducts or heat exchangers - Scope shall include installation of external ducts in case of air cooling or heat exchangers in case of liquid cooling. All fixing brackets, other support structures, hardware, piping etc. required for fixing of the exhaust duct to the roof of the Inverter Room or for connecting heat exchanger shall be in the PCU vendor's scope. Any drgs for the Inverter Room required for this purpose shall be provided by BHEL to vendor. BHEL will provide the cut-outs on the room walls for fixing the duct / exhaust fans as per dimensions provided by the vendor.			60 sets
	2.0 Warranty Vendor shall provide comprehensive warranty for 60 months from date of commissioning or 66 months from date of supply, whichever is earlier. Vendor shall enclose, along with technical bid, the complete scope, terms and conditions of the warranty. During the warranty period, whenever a technical problem is encountered with the PCU, BHEL will report the same to the vendor. Vendor shall ensure that the problem is attended to by their service engineer within two days from the date of reporting.				

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3.0 Technical Documents to be submitted along with offer										
1. Vendor has to enclose the deviation sheet clause wise separately in case any deviations are sought by the vendor. Absence of any deviation sheet shall be taken as compliance of BHEL specification in total without any deviation. 2. Product datasheet of the offered PCU model. 3. Overall General Arrangement of PCU including DC and AC Combiner Panels. 4. List of spares offered (with quantity) and without prices. 5. List of type tests /IEC certifications available along with test certificates. Supporting test reports shall be provided by vendor during detailed engineering. 6. Filled in format-A enclosed with this specification regarding manufacturing capacity and orders under execution.										
4.0 Technical specification of Power Conditioning Units										
4.1 Basic requirements (PCU type, Standards, Technology, Interconnections, Interfaces etc)										
<table><tr><th>#</th><th>Parameter</th><th>BHEL specification</th></tr><tr><td>4.1.1</td><td>PCU type</td><td> Grid-interactive. PCU shall remain connected to the grid as per Central Electricity Authority Technical (standards for connectivity to the grid) regulation 2007 with all latest amendments and its components shall be designed accordingly. Low power mode: The control system that continuously monitors the output of the solar PV plant until pre-set value is exceeded and begins to export power provided there is sufficient solar energy and the grid voltage and frequency are in the specified range. Further, the inverter shall be capable of operation under reduced power mode and shall not trip when the PV array output voltage is below MPPT range under high temperature conditions. Active MPPT mode (high power mode): When solar radiation increases further, PCU shall enter maximum power point tracking (MPPT) mode and adjust the voltage of the SPV array to maximize solar energy fed into the grid. When the solar radiation falls below threshold level, the PCU shall enter lower power mode. Sleep mode: Automatic 'sleep' mode shall be provided so that unnecessary losses are minimized at night. Vendor shall provide threshold DC voltage level / power level of the PCU as to when it shall enter into the sleep mode and back to low power mode and MPPT mode during detailed engineering for BHEL/customer approval. Low Voltage mode: The Inverter shall be capable of operating under reduced power mode and shall not trip when the PV array output is below MPPT range under high temperature conditions. </td></tr></table>					#	Parameter	BHEL specification	4.1.1	PCU type	Grid-interactive. PCU shall remain connected to the grid as per Central Electricity Authority Technical (standards for connectivity to the grid) regulation 2007 with all latest amendments and its components shall be designed accordingly. Low power mode: The control system that continuously monitors the output of the solar PV plant until pre-set value is exceeded and begins to export power provided there is sufficient solar energy and the grid voltage and frequency are in the specified range. Further, the inverter shall be capable of operation under reduced power mode and shall not trip when the PV array output voltage is below MPPT range under high temperature conditions. Active MPPT mode (high power mode): When solar radiation increases further, PCU shall enter maximum power point tracking (MPPT) mode and adjust the voltage of the SPV array to maximize solar energy fed into the grid. When the solar radiation falls below threshold level, the PCU shall enter lower power mode. Sleep mode: Automatic 'sleep' mode shall be provided so that unnecessary losses are minimized at night. Vendor shall provide threshold DC voltage level / power level of the PCU as to when it shall enter into the sleep mode and back to low power mode and MPPT mode during detailed engineering for BHEL/customer approval. Low Voltage mode: The Inverter shall be capable of operating under reduced power mode and shall not trip when the PV array output is below MPPT range under high temperature conditions.
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			PURCHASE SPECIFICATION FOR 1250kW GRID-CONNECTED POWER CONDITIONING UNITS FOR 75MW(AC) SPV POWER PLANT AT GIPCL-CHARANKA		PS 439-1187
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COPY RIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest of the company.	4.1.2	Compliance with standards	IEC 61727 - Photovoltaic (PV) systems - Characteristics of the utility interface IEC 61683 - Photovoltaic systems - Power conditioners - Procedure for measuring efficiency IEC 61000 - Emission/ Immunity requirements IEEE 519 - Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems IEC 60068 – Environmental Testing IEEE 1547/ UL1741/ IEC 62116 / equivalent international standard – Anti-islanding protection IEC 62109 (1&2) / EN50178 or equivalent international standard - Safety of power converters for use in photovoltaic power systems Compliance to requirement for the design and manufacture of PCU for protection against electric shock, energy, fire, mechanical and other hazards. IEC 62093 – MPPT efficiency EN 50530 - Overall efficiency of grid connected photovoltaic Inverters IEEE 929-200 or equivalent IEC 60529 – Ingress Protection CERC / GERC/ CEA Regulations Note: All standards, specifications and codes of practice referred to shall be the latest editions including all applicable official amendments and revisions as on date of RFQ. In case of conflict between the specification and those codes/standards (IEC, IS etc), the former shall prevail. Equipments complying with other internationally accepted standards such as BS, UL, DIN, VDE etc will also be considered if they ensure performance and constructional features equivalent or superior to standards listed in this specification. In such case, the bidder shall clearly indicate the standards adopted, furnish a copy in the English of the latest revisions in force as on date of RFQ and shall bring out salient features for comparison.		
	4.1.3	Output transformer	PCU shall be of 'transformer-less' design.		
	4.1.4	Maximum Power Point Tracking (MPPT)	MPPT shall be integrated in the power conditioning unit to maximize energy drawn from the solar PV array. The MPPT should be microprocessor based to minimize power losses. The details of working mechanism of MPPT shall be submitted during the detailed engineering. The operating voltage range of PCU and the MPPT shall be large enough such that it satisfactorily operates for PV modules exposed to the maximum ambient temperature of 50 deg C.		
	4.1.5	AC-DC conversion	3-phase Inverter stack		
	4.1.6	Built-in support systems	PCU shall be provided with protection circuits, monitoring circuits, data logging & storage system, provisions to download data to PC/Laptop,		



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4.3.6		Anti-islanding protection
4.3.7		EMI and RFI
4.3.8		Grid monitoring Protection against any sustained fault (lightning effect etc) in grid / feeder line.
4.3.9		Ground fault protection
4.3.10		Power regulation in the event of thermal overloading
4.3.11		SPD-based overvoltage protection on both DC and AC sides. SPD shall consist of MOV type arrestors. It shall have thermal disconnectors to interrupt surge current arising from internal / external faults. The SPDs shall be Type I+II.
4.3.13		Fan failure – Alarm contact shall be provided for air flow loss / rise of temperature of cooling fan

4.4 DC, AC side load break disconnecting switch / breaker provisions

4.4.1	DC side	Load break disconnecting mechanism required on DC side – motorized type.
4.4.2	AC side	(a) Aux contacts (ON/OFF) from both ACB and DC Switch Disconnecter shall be made available at TB terminals to enable external wiring for SCADA purpose. (b) Surge protection device (3P) with suitable rating shall be provided at the input of the ACB. (c) Indication for grid side supply ON / OFF status shall be available on the Door Interface. (d) ACBs shall be provided on the AC output side (e) Interconnection between the ACB Panel and PCU supply/provision of cables / busbars as applicable shall be in the scope of the vendor.

4.5 Front panel display and control

4.5.1	Front panel screen (LCD display, etc) with browsing / navigation provisions to	Instantaneous DC power input DC input voltage DC Current
4.5.2	1) select display parameters 2) provide settings for various parameters	Instantaneous active AC power output Instantaneous reactive AC power output AC voltage (all the 3 phases and line) AC current (all the 3 phases and line) Frequency Power Factor Energy (kWh) produced during entire day

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COPY RIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest of the company.	4.8.3	Max DC input current rating of PCU	Vendor shall indicate the rating. In addition, max rating of each individual DC input shall be indicated		
	4.8.4	DC cable entry into panel	Bottom entry. Cable supply is within BHEL scope. 2Cx300 / 2Cx400 sq-mm Aluminium, multi-strand, armoured, XLPE insulation, PVC sheath cable will be used for each DC input. Exact size shall be provided during detailed engg. DC termination shall be suitable for the above cable.		
	4.8.5	Gland plates	Drilled Gland plates shall be provided with holes to accommodate the cable glands.		
	4.8.6	Cable glands	Nickel plated brass, double compression type cable glands of reputed make (Make: Comet or any other reputed make) shall be provided by the vendor. To enable right selection of glands, final cable O.D will be provided by BHEL at the time of manufacturing. Approval of make and type/size shall be taken from BHEL before procurement of glands. Part no. and qty shall be indicated in the BOM. PCUs shall be supplied with all the glands fixed on the gland plates.		
	4.8.7	Cable lugs, plain washers, spring washers, bolts and nuts	Similarly, cable lugs, bolts, nuts & plain washers, Zinc coated spring washers shall be provided by the vendor. Make for lugs: Dowells or any other reputed make with CE/VDE/UL/CSA/BIS. Approval of make and type/size shall be taken from BHEL before procurement of lugs. Part no. and qty shall be indicated in the BOM. PCUs shall be supplied with all these items fixed on the bus bars at their respective positions. Cable Lugs shall be Aluminium type. Bi-metallic strip or washer shall also be supplied for connection to Cu busbar if applicable .		
	4.8.8	Bus bar design	Tinned Copper or Aluminium Busbars shall be provided.		
	4.8.9	In case of separate DC termination panel	(a) In case the DC terminations are not within the main PCU panel with the vendor design featuring a separate panel, the add-on panel shall also be included in the offer. (b) General arrangement showing views and details of termination panel, with cable entry particulars, shall be submitted as part of technical bid. (c) Interconnecting the add-on DC termination panel with the main panel, including supply of cables for this purpose, shall be within the scope of vendor.		
	4.8.10	DC Side Negative Grounding	DC side negative grounding system shall be provided for the PCU. The same shall be indicated in the GA/SLD/Schematics and BOM.		



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4.10 Panel related parameters

4.10.1	Structure sheets	Doors and frames - Type of enclosure and size/thickness details of the doors and frames shall be indicated by vendor Gland plate: Minimum 3mm thk min sheet steel or 4 mm thk non-magnetic material
4.10.2	Bus bars	Tinned copper with appropriate size to match current rating, based on vertical / horizontal layouts and bus bar orientations. Insulation sleeves (PVC etc.) shall be used wherever necessary. Bus bars (both AC and DC) shall be suitably colour coded.
4.10.3	Internal power cables	Insulated (PVC etc.) copper cable with appropriate cross section to match current rating.
4.10.4	Control wiring	Insulated (PVC etc.) copper cable of appropriate cross-section.
4.10.5	Base channel	ISMC channel of appropriate size to withstand the weight of the panel; suitable anti-corrosive finish (powder coated finish etc). Single rectangular ISMC base frame shall be provided for the complete panel.
4.10.6	Provisions for grouting	Base channel shall have suitable provisions (holes, etc) for grouting the panel on floor.
4.10.7	Earthing terminals as per relevant standards	Earthing terminals shall be provided using tinned copper / aluminium bars of suitable cross section. Terminals shall be brought out to facilitate external connections.
4.10.8	Insulation clearances	AC side: Phase to Phase / neutral: 25 mm min. DC side: As per relevant standards.
4.10.9	Painting	Epoxy based powder coating. Powder coating shall meet the requirement of IS 13871 Paint shade shall be informed during detailed engineering.
4.10.10	Overall dimensions	Width x Depth x Height in mm shall be indicated in the offer.
4.10.11	Weight	Panel weight shall be indicated in the offer.
4.10.12	Air Flow Requirement (m3/hr)	To be indicated by vendor for each PCU. - HVAC calculations shall be provided by vendor during detailed engg. - For this purpose, BHEL shall provide the final room layout drg during detailed engg. - Alternatively, if liquid cooling is recommended, vendor shall provide all the details along with thermal design calculations.

4.11 External ducts for air cooling system if applicable

4.11.1	External ducts	External ducts shall be designed suitably in accordance with the layout of the Inverter Rooms.
4.11.2		The Solar PV Plant will have distributed Inverter Rooms to house the PCU Panels. Approximate distance from the rear side of PCU to the Inverter Room wall will be approximately 1.0 metre . Air duct design shall be

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COPY RIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Limited. It must not be used directly or indirectly in anyway detrimental to the interest of the company.				suitable for the same. Exact layout of PCUs in the control rooms will be provided by BHEL during detailed engineering to facilitate design of external duct profiles.
		5.0 Testing and inspection		
		5.1	Routine tests, as per relevant standards (IEC etc), shall be carried out on the PCUs and shall be witnessed by BHEL & Customer/ Customer authorized third party inspection agency). Vendor shall submit Manufacturing Quality Plan (MQP) and detailed Test Procedure along with drawings for formal approval by customer prior to inspection. Routine tests shall be carried out by vendor on all the PCUs as per customer approved MQP. Following are the minimum tests to be conducted but not limited to: (a) HV and IR tests on 100% PCUs. (b) Functional tests (c) Load testing of inverter on 1No. PCU: - Verification of inverter performance in its stand alone operational mode with a defined power (up to 100% rated full load power) and DC input voltage (up to max value). All parameters: DC voltage, current, power, grid voltage / current of R,Y,B lines, line frequency, ac output power, ac output energy, power factor, line current, efficiency, THD, etc. to be measured at 25%, 50%, 75% and 100% of the rated nominal power and checked against specified acceptance norms. (d) Heat Run Test at rated full load on 1 no. panel (e) Protection tests (by direct method or simulation method) - Verification of automatic disconnecting and reconnecting of Inverter to the grid, based on rise and fall of heat sink and cabinet temperature with reference to set points. - DC Reverse Polarity protection test - DC Ground Fault - AC and DC Overvoltage - Abnormal voltage and frequency Test reports shall be submitted prior to dispatch of the system to the site.	

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		6.0 Documents to be submitted after receipt of purchase order			
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		7.0 Documents to be submitted along with consignment			
		7.1 Following documents shall be submitted at the time of dispatch: a. Test reports on individual PCUs b. Technical manual with system specifications, installation guidelines, commissioning guidelines, schematic drawings, circuit board overlays, system set points, calibration settings, hardware settings, cable schedule, general arrangement drawings, panel details. c. Operation and Maintenance manual including final As Built and tested drgs and datasheet, test reports, catalogs of individual components, schematic drgs shall be provided (segregated section wise) in both hard copy and soft copy.			

"FORMAT -A"

(to be filled in by Bidder and submitted with Techno-Commercial Bid)

Project- GIPCL- CHARANKA 75 MW SPV POWER PLANT					
RFQ No: _____			Bidder Proposal No: _____		
Bidder Name: _____			Date: _____		
Sl. No.	Annual Manufacturing Capacity of the Bidder	Orders in Hand	Orders Planned for Liquidation in 2018-19	Balance Manufacturing Capacity	Remarks

Date:

Bidder Signature & Seal