

Bid Document

Bid Details	
Bid End Date/Time	11-08-2022 13:00:00
Bid Opening Date/Time	11-08-2022 13:30:00
Bid Offer Validity (From End Date)	80 (Days)
Ministry/State Name	Ministry Of Petroleum And Natural Gas
Department Name	Na
Organisation Name	Hindustan Petroleum Corporation Ltd
Office Name	Petroleum House
Total Quantity	1
Item Category	Solar Power Plant (Roof Top) for ONGRID System, Three Phase (Q3)
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC),Additional Doc 3 (Requested in ATC),Additional Doc 4 (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled	No
Time allowed for Technical Clarifications during technical evaluation	2 Days
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
Evaluation Method	Total value wise evaluation

EMD Detail

Required	No
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ePBG Detail

Required	No
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Splitting

Bid splitting not applied.

MII Purchase Preference

MII Purchase Preference	No
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MSE Purchase Preference

MSE Purchase Preference	Yes
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1. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 100%(selected by Buyer) percentage of total QUANTITY.

Solar Power Plant (Roof Top) For ONGRID System, Three Phase (1 set)

Brand Type	Registered Brand
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Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Bid Requirement (Allowed Values)
INVERTER	Rated out put power of inverter (Kw)	5
	Switching device	IGBT
	No. of Phase (in Nos.)	3
	Inverter output wave form	Pure sine wave
	No.of MPPT per inverter (in Nos.)	2
	No. of string at input side of inverter (input port +ve and -ve) (hint: 1 sets contains 1 +ve and 1 -ve port)	2 sets
	Maximum power point tracker	Integrated in the PCU/inverter to maximize energy drawn from the array
	Operating Voltage Range of Inverter	80 to 500 V

Specification	Specification Name	Bid Requirement (Allowed Values)
	Over load support at Input side, DC	15% of Maximum Input Voltage
	Maximum input current for each MPPT (in A)	11
	Service condition	Indoor,
	Ingress protection rating of inverter	IP 65 (for outdoor use)
	Cooling medium for inverter	Constant speed Fan Cooled
	Manual switch for disconnecting DC supply	Yes
	Inverter mounting type	Wall Mounted
GENERIC	A Grid Tied Photo Voltaic (SPV) power plant consists of	SPV array, Module Mounting Structure, Power Conditioning Unit (PCU) consisting of Maximum Power Point Tracker (MPPT), Inverter, and Controls and Protections, interconnect cables and switches
	PV Array Mounting	Mounted on a suitable structure
	Grid tied SPV system is	Without battery and designed with necessary features to supplement the grid power during day time.
	Installation and testing for complete system	Yes including Civil Work, Designing, Fabrication, Cabling Work with suitable Bolts, Nuts, Clamps, Connectors and testing etc
INVERTER OUT PUT	Maximum current for 3 phase inverter (in A)	19.1
	Output voltage (in V)	240 V Single Phase
	Invert auto trip at output side	Lower : at 160 V, Higher : at 285 V with adjustable
	Frequency range	50 - 60 Hz
	Overall Efficiency (in %)	>98
	Efficiency Measurements for Power conditioners / Inverters	as per IEC 61683 / IS:61683
	PCU/inverter shall be capable of complete automatic operation for	wake-up, synchronization and shutdown.
PROTECTION FOR INVERTER	Overload protection	110% for 1 Minute
	Over temperature protection	Yes at 65 Deg. C Cooling Fan will auto switch ON
	Surge protection	Metal Oxide Varistor (MOV)
	Insulation Resistance Monitoring	Yes
	Grid Monitoring protection	Yes
	THD (in %)	< 3%

Specification	Specification Name	Bid Requirement (Allowed Values)
	Power factor at rated output power	> 0.9, 0.9
	Inverter body material	Aluminium Casting
SERVICE CONDITION	Operating temperature	-25 to +60 deg. C
DISPLAY FEATURES ON INVERTER	Type of display	LCD
	Display parameters	DC Voltage, DC Current, AC Voltage, AC Current, Output frequency, Power Factor
	Generating power Data storage facility	Yes for 2 Years from the date of commissioning
	Interface facility for transmitting the generating power data for cloud storage	With Wifi Dongle
	Net meter	Approved by Government of India/State Government authority concerned for connecting to Grid
Add on items - DC DISTRIBUTION BOARD	DC Distribution panel to receive the DC output from the array field	Yes with surge arrestors
	Ingress protection (Enclosure protection) of DC Distribution Box	IP65
	Material of bus bar and size	Copper, size as per inverter rating
	Circuit Breaker for input side (DC side) for each inverter	MCB 10 A
Add on items - CABLE FOR INPUT	ISI Marked Connecting cables according to Inverter rating for each system	PV Module to Inverter DC
	Electric Cable for Input	1C x 4 Sq. mm, Copper Cable (as per IS:694:2010 latest)
	Cable Length for PV Module to Inverter, DC (in m)	10
Add on items - AC DISTRIBUTION BOARD	AC Distribution Panel Board (DPB) for controlling the AC power from PCU/inverter	1 phase 230 volt +/- 10%, 50 Hz +/- 3%
	Panel construction	Metal clad, totally enclosed, floor mounted, air insulated, cubical type with change over switch
	Ingress protection (Enclosure protection) of AC Distribution Box	IP65 for outdoor
	All switches and the circuit breakers, connectors should conform to	IS:60947 part I, II and III.
	Panels designed for minimum expected ambient temperature	45 deg. C

Specification	Specification Name	Bid Requirement (Allowed Values)
	Circuit Breaker for output side (AC side) for each inverter	MCB 10 A
Add on items - CABLE FOR OUTPUT	ISI marked Connecting cables according to Inverter rating for each system	From Inverter to Net Meter and to mains at LT Bus bar while in grid tied mode
	Conformity of the specification for cable	3.5C x 6 Sq. mm, Copper Cable (as per IS:694:2010 latest)
	Cable length for output side (from inverter to Net Meter for each system) (in m)	10
Other Add on Items	Cabling work at input side for each system	With PVC Conduit pipe with necessary clamps and screws
	Cabling work at Output side for each system	With G.I. Cable Tray with fitment accessories
	Earthing for each inverter	Minimum 3 nos
	Danger boards and signages	1 No
ARRAY STRUCTURE	Material of mounting structure for mounting the modules/ panels/arrays	Structural Steel, Grade: E350 (as per IS:2062:2011 latest)
JUNCTION BOX	Material of Junction Box	GRP(Glass reinforced plastic)
	Ingress protection (Degree of Protection) for Junction Box	IP65
Wind Load	The Mounting structure shall be so designed to withstand the speed for the wind zone of the location where a PV system is proposed to be installed	Yes
	Compliance to wind velocity test for the Mounting structure of PV System	as per IS 875:1987 part 3 latest
	Regional wind withstand capacity which the Mounting structure of PV system support is suitable to withstand (in Km/Hour)	150
WARRANTY & GUARANTEE	Minimum guarantee for maintaining of output peak watt capacity	Performance warranty shall not be less than 90% at the end of 12 years and 80% at the end of the 25 years
CERTIFICATIONS	Availability of type test reports for PCU/Inverter, PV Module to prove the conformity of the specification from	BIS approved Lab

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Koyna Venkata Rama Naresh	517520,Tirupathi Airport Renigunta Tirupati - 517520	1	60

Buyer added Bid Specific Additional Scope of Work

S.No.	Document Title	Description	Applicable i.r.o. Items
1	HPCL General Terms and Conditions for Supply View	HPCL General Terms and Conditions for Supply	Solar Power Plant (Roof Top) For ONGRID System, Three Phase(1)
2	HPCL General Terms and Conditions for work View	HPCL General Terms and Conditions for work	Solar Power Plant (Roof Top) For ONGRID System, Three Phase(1)
3	porta-cabin (Roof Size: 9.15m X 3.05m) (refer Annexure-I for sample design). * (Attached) View	porta-cabin (Roof Size: 9.15m X 3.05m) (refer Annexure-I for sample design). * (Attached)	Solar Power Plant (Roof Top) For ONGRID System, Three Phase(1)
4	HPCL Notice Inviting tender View	HPCL Notice Inviting tender	Solar Power Plant (Roof Top) For ONGRID System, Three Phase(1)
5	HPCL De LISTING DECLARATION View	HPCL De LISTING DECLARATION	Solar Power Plant (Roof Top) For ONGRID System, Three Phase(1)

The uploaded document only contains Buyer specific Additional Scope of Work and / or Drawings for the bid items added with due approval of Buyer's competent authority. Buyer has certified that these additional scope and drawings are generalized and would not lead to any restrictive bidding.

Buyer Added Bid Specific Terms and Conditions

1. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

1. Please go through the tender document and attachments thoroughly to understand the job scope before quoting of price.

2. HPCL Terms and Conditions shall supersede.

3. Below mentioned additional terms and conditions:

(a) The angles and putting the panels over the porta-cabin should be included in this project and rates should be including all the things considered. Installation of panels to be done on the top of porta-cabin (Roof Size: 9.15m X 3.05m) (refer Annexure-I for sample design). *(**Attached**)

(b) Net meter Supply, Installation & commissioning to be done by vendor. Net metering Liasoning, Consultancy & Permission from state DISCOM on the name of HPCL, Tirupati ASF & necessary documentation to be done by vendor.

(C) Solar plant items to be supplied, installed and commissioned at HPCL, Tirupati ASF by seller as per the requirement of Project in

charge.

(D) HPCL reserves the right to increase or decrease the wattage of solar panel to be installed depending upon the requirement at the time of supply. However HPCL reserves right to reject whole or part of the offer without assigning any reason whatsoever.

(E) The Vendor has to coordinate for Airport Entry Passes for Workers and Vehicles involved for carrying out the jobs. HPCL will authorize the application forms.

(F) Warranty of each item should be as per manufacturer.

(G) AMC should be provided free of cost for 1 year from the date of commissioning.

(H) During emergency breakdown maintenance, response to given within 48hrs.

(I) On-site warranty with 7 Years from the date of commissioning of equipment or 7 Years from the date of supply of material at site whichever is earlier.

4. Payment Terms: Payment would be made to the vendor within 15 days from the date on which invoice along with BTS and supporting documents received at CPC-SCRZ & location. However, vendor shall submit the invoice only after the supply and commissioning of the set up to the satisfaction of the location in charge.

5. Delivery Period/Contract Completion Date: Material to be supplied within 15 days to the site from the date of gem contract order and to be commissioned within 45 days from the date of supply of material to the site

2. Generic

Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.

3. Generic

Bidder shall submit the following documents along with their bid for Vendor Code Creation:

- a. Copy of PAN Card.
- b. Copy of GSTIN.
- c. Copy of Cancelled Cheque.
- d. Copy of EFT Mandate duly certified by Bank.

4. Generic

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

5. Generic

Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.

6. Generic

1. The Seller shall not assign the Contract in whole or part without obtaining the prior written consent of buyer.
2. The Seller shall not sub-contract the Contract in whole or part to any entity without obtaining the prior written consent of buyer.
3. The Seller shall, notwithstanding the consent and assignment/sub-contract, remain jointly and severally liable and responsible to buyer together with the assignee/ sub-contractor, for and in respect of the due performance of the Contract and the Sellers obligations there under.

7. Generic

Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy available to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Seller, if:

- i) The Seller fails to comply with any material term of the Contract.
- ii) The Seller informs Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise becomes apparent.
- iii) The Seller fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly.
- iv) The Seller becomes bankrupt or goes into liquidation.
- v) The Seller makes a general assignment for the benefit of creditors.
- vi) A receiver is appointed for any substantial property owned by the Seller.
- vii) The Seller has misrepresented to Buyer, acting on which misrepresentation Buyer has placed the Purchase Order on the Seller.

Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization. Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity/restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and/or terms and conditions governing the bid. Any clause incorporated by the Buyer such as demanding Tender Sample, incorporating any clause against the MSME policy and Preference to make in India Policy, mandating any Brand names or Foreign Certification, changing the default time period for Acceptance of material or payment timeline governed by OM of Department of Expenditure shall be null and void and would not be considered part of bid. Further any reference of conditions published on any external site or reference to external documents/clauses shall also be null and void. If any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations. Also, GeM does not permit collection of Tender fee / Auction fee in case of Bids / Forward Auction as the case may be. Any stipulation by the Buyer seeking payment of Tender Fee / Auction fee through ATC clauses would be treated as null and void.

[This Bid is also governed by the General Terms and Conditions](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action

in accordance with the laws.

---Thank You---