

### Bid Document

Bid Details	
Bid End Date / Time	10-08-2018 09:00:00
Bid Validity	15 (Days)
Ministry Name	
Organization Name	N/A
Department Name	College Education Department Rajasthan
Total Quantity	1
Item Category	inverters solar inverter

### Inverters Solar Inverter ( 1 )

#### Technical Specifications

Specification	Specification Name	Values	Allowed Values
GENERIC	<b>Rating of inverter (KVA)</b>	5.0 KVA	5.0 KVA
	<b>ISI marked</b>	No	Yes , No
	If ISI marked yes, CM/L No. must declare. If ISI mark No write NA	NA	-
	<b>Nos. of phase</b>	single	single , Three
	<b>Inverter output wave form</b>	Pure sine wave	Pure sine wave , Quasi sine wave
	<b>Ingress protection rating of inverter</b>	IP 65 for outdoor use	IP 65 for outdoor use , IP 23 for indoor use
	<b>Built in protection for AC high/low voltage and frequency if connected to AC mains</b>	IP 65 for outdoor use	IP 65 for outdoor use , IP 23 for indoor use
	<b>Display Type</b>	LED	LED , LCD
	Area required for installation of Solar panels with mounting structure (sq. mt)	20	-
	<b>Material of mounting structure</b>	Galvanised steel	Stainless steel , Galvanised steel ,

			Aluminium alloy
CONSTRUCTIONAL	Mode of operation	Stand-alone	-
	<b>Switching device</b>	MOSFET	IGBT , MOSFET
	Maximum power point tracking (MPPT)	yes	-
	Galvanic isolation between input DC and output AC	yes	-
	By-pass facility if connected to AC mains	IP 65 for outdoor use	-
	Display parameters like DC voltage (V) DC current (A) AC voltage(V)	YES	-
	Sequence of power drawing	(1) SPV (2) AC MAINS (IF CONNECTED WITH AC POWER) (3) BATTERY BANK	-
	Nos. of modules in an array (NOS.)	10	-
	Rating of individual PV module (Wp)	270	-
	<b>Salt mist corrosion resistant material for body and frame of SPV module</b>	Galvanized steel	Aluminium , Galvanized steel
	Provision for Solar generation meter	yes	-
	Provision for bidirectional meter (Net Meter)	yes	-
	Provision of anti rusting/ non corrosive mounting structure	yes	-
	<b>Sustainability of wind speed. (KM/Hr)</b>	150	150 , 200
	<b>Type of battery (KM/Hr)</b>	Tubular Gel	VRLA , SMF , Tubular Gel
	Capacity of battery bank (VAH)	21600	-
	3 stage battery charging (float, boost and equalize stage) for long life of the battery	yes	-
Reverse polarity protection	yes	-	
Complete installation	yes	-	

	work to be done by supplier		
	Gross weight of the inverter (kg)	21	-
	Reverse polarity protection for PV modules	yes	-
FUNCTIONAL	Inverter efficiency	85	-
	Total Harmonic distortion (%)	5	-
	Operating AC voltage range (Volts)	230	-
	Operating frequency range (Hz)	50	-
	Operating Temperature (degree cel)	40	-
	Operating relative humidity (%)	90	-
	Load power factor	0.5	-
	Output regulation at rated voltage	Yes	-
	Over load Protection 110% for 60 Seconds ,125% for 30 Seconds and 150% for 5 seconds	yes	-
	Efficiency of Solar panel (%)	70	-
	<b>Battery backup time at rated load (Hour)</b>	4	1 , 2 , 3 , 4
	Battery bank Voltage (Volt)	96	-
	CERTIFICATIONS	Conformity of inverter to environmental testing conditions as per IEC 600688-2 (1,2,14,30) or equivalent BIS standard	YES
90% performance warranty for SPV (years)		10	-
80% performance warranty for SPV (years)		25	-
TTC for PV module from any MNRE lab as per MNRE 2015-2016		yes	-

OEM test report for indigenously produced PV module (s)	yes	-
Availability of Type test report for inverter including environmental tests from Central government/NABL/ILAC accredited laboratory to prove conformity to the specification	yes	-
Test report number	1000071811	-
Date of test report	1/6/2015	-
Name and address of laboratory	Luminous Power technology	-
Type test report to be furnished on buyers demand	yes	-

\* Bold specifications are the golden parameters.

### Consignees and Quantity

S.No.	Consignee	Address	Quantity	Delivery Days
1	Kuldeep Singh Gaur	312026,SHRI SANWALIYAJI GOVERNMENT COLLEGE MANDPHIYA	1	15

### EMD Detail

Required	No
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### ePBG Detail

Required	No
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### Splitting

Bid splitting not applied.

### Buyer Specific Additional Terms and Conditions

- Scope of supply (Bid price to include all cost components) :** Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)
- Procurement under this bid is reserved for purchase from :** Local Supplier as defined in Public Procurement (Preference to Make in India), Order 2017 and its subsequent Orders / Notifications issued by concerned Nodal Ministry for specific Goods/ Products.
- Purchase preference will be given to MSME and Startup (Local supplier) : (if L-1 is**

**not from selected category and 4 / 5 Seller (s) from selected category has/have quoted price within L-1 + Local Supplier as defined in Public Procurement (Preference to Make in India - 20%), Order 2017 and its subsequent Orders / Notifications issued by concerned Nodal Ministry for specific Goods/ Products % of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and award contract for percentage of total value as defined/ decided in relevant policy) Local Supplier as defined in Public Procurement (Preference to Make in India - 20%), Order 2017 and its subsequent Orders / Notifications issued by concerned Nodal Ministry for specific Goods/ Products**

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

**---Thank You---**