



TAMRALIPTA MAHAVIDYALAYA

[Estd.-1948]

NAAC Accredited 'A' Grade College

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Ref. No.

NOTICE INVITING QUOTATIONS

Date.....

Tamralipta Mahavidyalaya is inviting quotations from the registered suppliers for complete installation of Solar on-Grid-tie Power Plant System for 5 kwp (Single Phase) by 4 p.m. on 23.11.2020.

SL	Item Description	unit	price
1	395 WP SOLAR MODULE MNRE APPROVE CERYIFICATE OF IEC 61215, IEC 61730 . TUV ,PV CYCLE , & STQC; *TECH. SPE. NOMINAL MAXIMUM POWER (Pm) in WATT - 395 ; * POWER TOLERANCE - O/+_ - 5 W ; * OPEN CIRCUIT VOLTAGE (Voc)- VOLT - 49.05 ; * SHORT CIRCUIT CURRENT (Isc) - Amps - 10.12 ; * VOLTAGE ATMAXIMUM POWER (Vmp) - 40.28 ; * CURRENT AT MAXIMUM POWER (Imp) -9.81 ; * EFFICIENT OF SOLAR MODULE -19.83 % ; * FILL FACTOR -70 % ; * MAXIMUM SERIES FUSE RATING (A) -16 ; MONO PERC:72 Cell	14 No	
2	SOLAR GRID -TIE INVERTERS - CAPACITY - 5KW * INPUT(DC) -- * NOMINAL IN PUT DC POWER (KW)- 5 ; * MAX. DC INPUT VOLTAGE (V) -600 ; * STRAT -UP DC INPUTR VOLTAGE (V) - 120 ; * MPPT OPERATING RANGE (V)-90 -580 ; * MAX. DC INPUT CURRENTPER MPPT - 11A /11A ; * NUMBER OF MPPT - 2 ; FULL LOAD DC VOLTAGE RANGE -250V-520V ; *NUMBER OF STRING - 1 * OUTPUT(AC) -- RATED OUT POWER (KW) -5 ; * RATED AC GRID VOLTAGE(V)-230 ; * AC GRID VOLTAGE RANGE (V) -180 -270 ; * GRID FREQUENCY (Hz) - 50 -60 ; * OPERATING PHASE - Single Phase ; * RATED AC GRID OUTPUT CURRENT (A)-22.8 ; * THDi - < 3 % ; * GRID FREQUENCY RANGE - 47 /53 Hz ; * MAX. EFFICIENCY - 97.5 % .POWER LIMIT EXPORT -ZERO EXPORT OR ADJUSTABLE POWER LIMIT EXPORT; POWER FACTOR - 1 (adhestable +/- -0.8) * GENERAL DATA - TOPOLOGY - TRANSFORMERLESS ; * INTERNAL CONSUMPTION - < 1 W (night) ; *RUNNING TEMPERATURE - -25 deg C -+ 60 deg C ; * INGRESS PROTECTION - IP 65 ; * NOISE EMISSION (TYPICAL) - < 30 dB ; * COLLING - NATURAL ; * OPERATING SURROUNDINGS HUMIDITY - 0 -100 % . * WEIGHT- 11.5 KG; DIMENSION -405mm * 315mm *135 mm ; * DISPLAY - LCD ; PROTECTION - * DC RERERSE -POLARITY ; * OUT PUT OVERVOLTAGE ; * SURGE ; * AC SHORT CIRCUIT ; * INSULATION RESISTANCE ; * ISLANDING ; * AC OUTPUT OVERCURRENT ; * TEMPERATURE ; SDP - MOV : TYPEIII STANDARD ; * GENERAL DATA - * TOPOLOGY - TRANSFORMERLESS ; * INTERNAL CONSUMPTION - <2W (NIGHT) ; * TEMPERATURE - -25 to - + 60 deg C ; * INGRESS PROTECTION - IP 65 ; * NOISE EMISSION (TYPICAL) - < 30 dB ; COMMUNICATION - POWER MANAGEMENT UNIT - ACCORDING TO CERTIFICATION & REQUEST ; * STANDARD COMMUNICATION MODE - RS 485 WiFi / GPRS (OPTIONAL).SD CARD ; * OPERATION DATA STORAGE - 25 YEARS ; STANDARDS - * ENERGY EFFICIENCY - IEC 616831999 ; * ENVIRONMENTAL - IEC - 60068-2-1-2007, 2-2-2007; 2-14-2009, 2-30:2005 ; * IP 65 - IEC 60529 ; * SAFETY - IEC62109-2-2011 ; * EMC- IEC 61000 ; * ANTI- ISLANDING - IEC62116 -2014 ; * FEATURES - * DISPLAY - LCD ; * A C CONNECTION - IP 65 RATED PLUG ; * DC CONNECTION - MC 4 CONNECTOR . *DC OVER LOAD LOADINF UPTO -30 % ; * AC OVERLOADING UP TO 10% ; * DULE / MULTI MPPT DESIGN WITH ACCURATE MPPT ALGORITHM ; * R S485/ R 5232 REMOTE MONITORING (Wi - Fi / GPRS) ; *MOBILE APP MONITORING ; * OPTIONALS - * EXPORT POWER BLOCK FUNCTION ; * WEATHER MONITORING ; * STRING LEVEL MONITORING ; * FUSE , SPD FOR AC & DC PROTECTION .	1 SET	
3	ACDB(1set), DCDB IP 65 WITH MCB,SPD(1set).& O EXPART DEVICE (1set)	1SET	
4	DC CABLE - 4 sq mm), CABLE TIE .(AS PER REQ.)		
5	SOLAR MODULE MOUNTING STARJCTURER G. I .		
6	LIGHTING ARRESSTOR (1set), EARTHING KIT (2set)		
7	INSTLLATION & COMMISSIONG, TRANSPORTION CHARGE	1 SET	
TOTAL			

WARRENTY - INVETER - 10 YEARS ; SOLAR MODULE - 10 YEARS ;



[Signature]
02.11.2020
Principal
Tamralipta Mahavidyalaya
Tamluk, Purba Medinipur