

**Clarification No. 01 Dated 28.04.2022 to Bidders Queries**  
**NIB No. 419 Dated 22.04.2022.**

**Name of Work:** Tender for renewal of Industrial All Risk (IAR) Insurance Policy for the Assets of Monarchak Solar Power Station (5 MW), MSPS, Monarchak, Tripura, for a period of 1(one) year w.e.f. 00:00:00 Hours of 26.06.2022.

Sl. No.	Bidders Queries	NEEPCO's Response
1	Any CCTV Camera installed – If yes, please specify storage and monitoring facility.	One Outdoor PTZ camera to monitor the entire Solar Panel, 3 Nos. of bullet camera to monitor the Main Control Room and Switchyard. Storage facility is for 25 days of data backup.
2	Any specific protection from Animals	The entire Solar Plant is surrounded by boundary wall.
3	Illumination facility of the solar park especially along the boundary for patrolling & security.	Pathway LED lights are provided in the roads of solar panel fields and boundary.
4	Any water source inside the solar park.	Only underground water resource.
5	Cleaning practice of solar panels to maintain proper yield.	Water cleaning of Solar Panels is carried out regularly every month using underground water. The plant is located in clean environment and accumulation of dust is very minimum.
6	Bush cutting facility & frequency.	Bush cutting is carried out weekly using bush cutting machines.
7	Water drainage system & the slope of the solar park (required to confirm considering the two side elevation is high as per pictures below and the plant installed in between).	There is no water accumulation in the Solar Panel fields as two underground culverts crossing the elevated road is provided to cater the rain water to the drainage system so as to pass the rain water outside the plant area.
8	Water evacuation system & nearby water body of the park (as above).	Proper drain and slope is provided in the Solar Panel field to avoid accumulation of rain water in the Solar panel field. There is no waterbody in the park.
9	Installation practices of lightning arrestors.	Total 14 Nos. of LA is installed in the solar field and inverter rooms.
10	Performance ratio of the PV plant – last two years.	Performance ratio for last two years (2022 and 2021) 77.09 and 71.356 respectively.
11	Any AMC for the inverters, electrical & instrumentation systems.	AMC is awarded for maintenance of the Solar Plant.
12	Details of major spares & its storage practices.	Sufficient stock of Inverter spares is maintained to avoid any forced shutdown / outage of Inverters. List of some of the spares maintained in the plant is enclosed.
13	Are the inverters placed under canopies or in closed facility [if closed, any detection facility installed or not].	All Inverters are placed inside closed facility. Fire detection system installed in every Inverter room.
14	Width of the internal roads of the solar park using bituminous or concrete (to understand the accessibility of Firefighting/ disaster management team in case of any loss).	12 feet wide internal roads are provided inside the Solar Park. All roads are sub graded with brick bats. Approach road and Periphery Road of the Solar plant are Bituminous.
15	33KV transmission line, outside the premise – Maintenance & security practices, crossing any water body or not.	33 KV transmission line outside the Solar Plant premises is maintained by the beneficiary (Tripura State Electric Corporation Limited). There is no crossing over any water body.
16	Any information of expiring Insurer and premium.	The current insurer is United India Insurance Co. Ltd. and the current IAR Insurance policy of Monarchak Solar Power Station (5MW), Tripura, is valid upto 25.06.2022.

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28/04/2022

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List of Spares of 5MW Solar PV Power Station , Monarchak

SL NO	SPARE ITEM	EQUIPMENT
1	Diode with Heat Sink	SMB
2	Fuse Base	SMB
3	PCB Card	SMB
4	Power Supply Unit	SMB
5	HEAT SINK	SMB
6	IGBT Stack	PCU ( power Conditioning Unit )
7	Fuse with Holders	PCU
8	SPD	PCU
9	Fedback Card( HRD 468)	PCU
10	Relay card( HRD 471)	PCU
11	Control vard( HRD 467)	PCU
12	Gate Driver Card (HRD 470)	PCU
13	FRC CABLE(34 pin)	PCU
14	LT CT PS CLASS	PCU
15	1250 A Fuse for IGBT Stack	PCU
16	Gate Pulse Distribution Card(HRD 472)	PCU
17	15 A DC Fuse	PCU
18	Communication Card	PCU
19	HV Bushing with Metal Parts & Gaskets	T/F ( transformer)
20	LV Bushing with Metal Parts & Gaskets	T/F
21	LV Neutral Bushing with Metal parts & Gaskets	T/F
22	Set of Gasket	T/F
23	Combined oti & wti Electronic Controller Unit	T/F
24	Oil Flow Indicator(Level)-Prismatic Oil Level Gauge	T/F
25	Buchholz Relay with A/T	T/F
26	MOG	T/F
27	PRV	T/F
28	Silica Gel Breather	T/F
29	Set of Valves	T/F
30	Oil in Sealed Drums(Nos of Drums)	T/F
31	PT-FUSE-3.15A-SINGLE PHASE	HT PANEL
32	FUSE 4A	HT PANEL
33	FUSE 6A	HT PANEL
34	FUSE 10A	HT PANEL
35	FUSE 16A	HT PANEL
36	4A AC 4P MCB	HT PANEL
37	2A AC 4P MCB	HT PANEL
38	4A AC 1P MCB	HT PANEL
39	VG4A,VI	HT PANEL
40	CT CL0.2 5VA 1A,P2	HT PANEL
41	CT CL0.2 5VA 1A,P1	HT PANEL
42	1PHPT-E-40VA,0.2 40 VA	HT PANEL
43	MOTOR 220V AC/DC	HT PANEL
44	LED 42-240V GREEN	HT PANEL
45	LED 42-240V YELLOW	HT PANEL
46	LED 42-240V CLEAR	HT PANEL
47	LED 42-240V AMBER	HT PANEL

*Monarchak M. Karki*  
27/04/2021

*27.04.22*

48	LED 42-240V WHITE	HT PANEL
49	LED 42-240V BLUE	HT PANEL
50	22.5MM PB YELLOW 1NO+1NC	HT PANEL
51	22.5MM PB BLACK 1NO+1NC	HT PANEL
52	Control Relay for HT Panel	HT PANEL
53	MFM Meter(Trivector) EM6400	HT PANEL
54	110 V DC Indicating Lamp- Red	BATTERY CHARGER
55	Power Supply Transformer 5 Wire	BATTERY CHARGER
56	Pot Meters 5K or 1 K	BATTERY CHARGER
57	SCR & SCR Module	BATTERY CHARGER

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