

GOVERNIMENT INDIA CENTRAL PUBLIC WORKS DEPARTMENT PERCENTAGE RATE N. I. T.

: 01/EE&SM(E)/TP-I/2023-24

N.I.T. No.

Name of Work

Construction of Permanent Campus for Indian Institute of

Technology Tirupati, at Merlapaka village, Yerpedu Mandal,

Chittoor Dist., A.P. Phase-1 (Stage-1C).

Sub Head:-DSITC (Design, Supply, Installation, Testing and Commissioning) of On Grid Rooftop Photovoltaic Solar Power Generation of capacity 780 KWp for on the Roof top of IIT Tirupati

Academic Buildings (DB-1,DB-2 & CIF)

Estimated cost : Rs.5,17,98,180.00 Earnest Money : Rs.10,35,964 /-

Performance Guarantee : 5% of bid value

Security Deposit : 2.5% of bid value

Time Allowed : 05 (Five) Months

Certified that this composite NIT contains 01 to 75 pages only.

Assistant Engineer (E)
TPESD-II, CPWD, Tirupati

Executive Engineer & SM(E) TP-I, CPWD, Tirupati

This NIT for Composite work amounting to Rs.5,17,98,180.00 (Rupees Five Crore Seventeen Lakhs Ninety-Eight Thousand One Hundred and Eighty only) is hereby approved.

APPROVED

Chief Engineer cum ED TPZ, CPWD, Tirupati.

MATERIAL AND EQUIPMENT - PREFERRED MAKES

All materials and equipment shall conform to the relevant standards and shall be one of the preferred makes indicated below.

S. No.	Details of Materials /Equipment	Manufacturer's Name
1.	SPV Modules	HHV
		Panasonic
		EMVEE
		RENEWSYS
		NOVASYS
		WAREE
		REC
		CANADIAN SOLAR
		TATA
		BHEL
		BEL
	Power Conditioning Unit (PCU)	SMA(America)
2.		KACO(Siemens)
		Ingeteam
		Delta
		Siemens ABB
		Canadian Solar
		Solis
		Hitachi
		Thea
		Goodwe
_	Junction Box	Hensel
3.		Spelsberg
		ABB
		Cooper busman
		Rachem
4.	LT Jointing kit	Mahindra
		M-Seal
		3M
	Cable glands	Dowells
5.		Comet
		Jainson
6.	Bi-Metallic Cable lugs	Dowells
		Comet
		Jainson
7.	ACDB panel	Havells
	·	Geesys L & T
		Siemens
		Legrand
		Schneider

8.	Energy meter – Electronic Digital	L&T
	Meter (Networking type)	Siemens
		Schneider
		Secure
		HPL
9.	PV module interconnecting	Тусо
	connector	Cooper busman
		MC
10	BC California de Com	
10.	DC Cables and wires	Havells
		KEI
		LAPP
- 44	51/0 0 1 1: 1 1: 1/01	Siechem
11.	PVC Conduits and accessories (ISI	Avon Plast
	marked)	Precision
		AKG
		BEC
		GM
		Clipsal
		Polycab
12.	GI Pipes (ISI marked)	TATA
		JINDAL (HISSAR)
		ZENITH
		Surya
13.	DWC- HDPE underground pipes	Gemini Tirupati
	for Cables	Sudhakar
		Supreme Prince
		Duraline
		Crown
		Astral
14.	Lightning arrestor	Indelec
		Star
		Erico
15.	Indicating Lamps, LED type, Push	Schneider Electric (MG)
	Button	Larsen & Toubro (ESBEE)
		Siemens
		Vaishno
16.	PVC insulated XLPE Aluminum/	Havells
	copper conductor armoured MV	KEI
	Cables up to 1100V grade	Finolex Anchor
	(IS:7098)	RR Kabel
		L&T
		Asmon
17.	Selector Switch, Toggle switch	Salzer (Larsen & Toubro)
		Siemens
		

		Kaycee
18.	Timer	Siemens
		L&T
		Schneider Electric – TE
		GE
19.	Fire Sealant	Promat
		Hilti
		Birla – 3 M
20.	Cat-6A LAN cable	Panduit
		Schneider
		Systimax(COMMSCOPE)
		Molex
		Legrand
		Extreme
21.	Surge Protection	OBO Betterman
		ABB
		Legrand
CIVIL ITI	EMS	
22.	Cement (PPC)	ACC
		Ultra tech
		Birla
		Ambuja
23.	Tmt steel bars (crs) fe 500d/ fe	SAIL,
	550d & structral steel	TATA,
	330d & struction steel	RINL,
		JSW
24.	Epoxy Enamel Paint And Acrylic	Dulex
	Smooth Exterior Paint	Nerolac
		Berger
		Nippon
25.	All other items not covered above	As per approval of the Engineer-in-charge.

^{1.} For items for which makes of materials are not specified, the same shall be decided by the Engineer – in – charge and the decision taken by the Engineer – in – charge shall be final and binding on the contractor.

^{2.} The Government has issued public procurement policy (preference to Make in India) vide Ministry of Commerce and Industry Development of industrial and promotion (PPS) vide order No. P-45021/2/2017-PP BE-II dated: 28-05-2018, to "Encourage Make in India" and to promote manufacturing and production of Goods and services in India with a view to enhancing income & employment. CPWD has decided to implement this policy.

^{3.} The agency shall submit list of makes of materials proposed to be used on the work from local suppliers (as defined in the above order dated:28-05-2018) along with minimum local content as specified below for approval of the department out of the approved makes kept in the tender.