



डॉ. बाबासाहेब आंबेडकर तंत्रशास्त्र विद्यापीठ, लोणेरे

Dr. Babasaheb Ambedkar Technological University, Lonere

(Established by Government of Maharashtra & Governed by Dr. Babasaheb Ambedkar Technological University Act No. XXIX of 2014)

विद्याविहार, लोणेरे-रायगड ४०२ १०३(महाराष्ट्र)Vidyavihar, Lonere - Raigad 402 103 (Maharashtra)

Tel: (02140) 275142 ☎ Student Helpline: 02140 – 275212

Website: www.dbatu.ac.in



Environmental Consciousness and Sustainability

7.1.2

Q_n M

The Institution has facilities for alternate sources of energy and energy conservation

1. Solar energy
2. Biogas plant
3. Wheeling to the Grid
4. Sensor-based energy conservation
5. Use of LED bulbs/ power-efficient equipment

Options:

- A. Any 4 or All of the above
- B. Any 3 of the above
- C. Any 2 of the above
- D. Any 1 of the above
- E. None of the above

C. Any 2 of the above

The Electrical maintenance department of the University had purchased 10 solar street lights of 30 watts and installed in the campus of the University.

The Electrical maintenance department of the University had installed **5 KW Hybrid Solar Power System** for Classroom and Establishment Section at University Main Building.

REGISTRAR

Dr. Babasaheb Ambedkar Technological University,

LONERE 402 103.

Tal Mangaon, Dist. Raigad, (Maharashtra)



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Photo of Solar Panel Installed at Roof top of University Main Building.



Photo of Solar Street Light.



No: **2810** **MEASUREMENT SHEET**

Date :

Name of work:- Supplying, installing, testing and commissioning of 5 KW Hybrid solar power System for Classroom and Establishment section at University Man Building, Lonere

Name of Agency :-M/S. Delta Electrical & cnstruction, Reg off-469/470, Juni Bazar Peth, Goragaon, raigad-402103.

DBATU/Estate/5 Kwp Solar Power Plant /WO/2960, Date: 22/12/2023

Abstract Sheet

Sr. No	Description of item of work	Quantity	Unit	Rate in Rs.	Amount in Rs.
1	Supplying, installing, testing and commissioning of 5 kWp OFF-GRID solar power pack with interconnecting wires / cables up to 24V pure sine wave solar power inverter (THD<3%), SPV Modules (335 WP X 15 Nos.), C-10 rated lead acid battery bank 24V, 300Ah x 4 nos. (12V, 300 Ah x 8 nos) suitable for 4 Hours backup with suitable MS powder coated stand to hold battery bank and keeping sufficient space for filling distilled water, canopy box to house inverter and other electronics, wiring up to solar inverter in casing and capping, display board, sign board, two distinct earthing, spike type lightning arrester, necessary accessories complete with 5 years ON-SITE warranty and fully comprehensive maintenance.	2	Nos	373337.00	746674.00
2	Supplying, erecting & terminating FR XLPE insulated, galvanized steel formed wire armoured (strip) cable 1100 V, 3 core 10 sq. mm. copper conductor complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe.	200	mtr	476.00	95200.00
3	Supplying, erecting & marking DPMCB 6A to 32A, C-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board.	25	Nos	535.00	13375.00
4	Supplying, erecting & marking DPMCB 40A to 63A, C-series with rated short - circuit breaking capacity (Icn) 10 kA in provided distribution board	4	Nos	713.00	2852.00
5	Supplying & erecting triple pole and neutral distribution board (TPNDB), SP/TP MCBs total 8 ways /24 poles, with door, 1.2mm thickness surface/flush mounted, IP 43 Protection on iron/GI frame (vertical bus-bar type)	1	Nos	5696.00	5696.00
6	1.5 Sqmm multi-strand copper wire. (Make:- Polycab)	5	Bundle	1650.00	8250.00
7	1.0 Sqmm multi-strand copper wire. (Make:- Polycab)	5	Bundle	1100.00	5500.00
8	0.75 Inch Casing Capping Patti. (Make:- Pressfit)	95	Nos	49.69	4720.55
All the measurements checked and Recorded by me from page no 2809 to 2810 including Abstract sheet.					
				SubTotal (Rs)	882267.55
				GST 12% on Item no.01	89601.00
				GSt 18% on Iten no 02 to 08	24406.45
				Total estimated Cost (Rs)	996275.00
				Quoted offer 6.45 Below with estimated Cost	(-64260.00)
				Grand total Cost (Rs) (Incl GST)	932015.00

M.J.Moula
J.E.Electrical

H.P.
Instructor Electrical

[Signature]
University Engineer