

Achievement of TREDA

The Tripura Renewable Energy Development Agency (TREDA) established in the year 1998, as State nodal agency of Government of Tripura under Power Department has been engaged in promoting, developing and extending assistance for setting up projects relating to new and renewable energy, energy efficiency and conservation with the motto: “ENERGY FOR EVER” in Tripura.

Considering current global need for use of clean and renewable energy sources, Ministry of New and Renewable Energy, Government of India has been facilitating the implementation of several schemes/ programmers for harnessing renewable power, renewable energy to rural areas for lighting, cooking, and use of RE power in urban, industrial & commercial applications through TREDA in Tripura.

The major programmes/schemes implemented by TREDA are given below:-.

MAJOR ACTIVITIES

SCHEMES OF MINISTRY OF NEW & RENEWABLE ENERGY, GOVT. OF INDIA	STATE PLAN FUND / DEPOSIT WORK/BRGF/CSR
1. National Solar Mission Programme	1. Off-grid Solar Power Plant
2. Special Area Demonstration Programme Scheme	2. Solar Street Lighting System
3. Solar City Programme	3. Solar Lantern
4. Solar Thermal Programme	4. Solar Home Lighting System
5. New National Biogas & Organic Manure Programme (NNBOMP)	5. Solar Water Heating Systems
6. Information & Public Awareness Programme	6. Bio-Gas Programme
7. Suryamitra Training Programme	
8. Unnat Chullha Avhiyan Programme	
9. Wind Monitoring Programme	

ACHIEVEMENT OF TREDA

A. Solar Photovoltaic Power Plant: 2721.04 KWp

Sl. No.	Name of Scheme / Systems	Quantity / Capacity	Installed capacity (in KWp)
1	Remote village Electrification Programme of MNRE, GoI through Solar Home Lighting System (37 Wp capacity, 2 nos. of 9 watt Luminary & 1 two pin plug for use in DC fan)		
1.1	23 Remote villages	6941 nos. of families	256.82
1.2	251 hamlets	7278 nos. of families	269.28
2	National Solar Mission of MNRE, GoI - Off-grid Solar PV Power Plants with battery backup		
2.1	Health establishments	a) 5 KWp: 115 nos. of PHCs, Upgraded CHCs, State Ayurvedic Hospital. b) 10 KWp: 19 nos. of Sub-divisional Hospitals /CHCs, c) 25 KWp: 8 nos. District Hospitals, Homeopathic & Cancer Hospital d) 50 KWp: 6 nos. at AGMC,IGM,TMC	1420.00
2.2	Integrated Check Post, Agartala	a) 50 KWp: With battery backup b) 50 KWp :Without battery backup	100.00
2.3	Homes run by Social Welfare & Social Education Department	4 nos.	8.00
3	Solar City of MNRE, GoI: Off-grid PV power plant with battery backup		
3.1	SC & ST School Hostels, Guest Houses of Different Departments & Market area under AMC.	a) 45KWp b) 25 KWp c) 10 KWp d) 5 KWp : 6 nos. e) 3 KWp : 1 no. f) 2 KWp : 1 no.	115.00
4	Special Area Demonstration Programme of MNRE, GoI – Off-grid PV power plant with battery backup		
4.1	Tripura Legislative Assembly	25 KWp	25.00
4.2	Raj Bhawan, Circuit House	40 KWp	40.00
5	Deposit work - Off-grid Solar PV Power Plants with battery backup		
5.1	Health Sub-centres of Dhalai district, Tourist places, Fisheries, SPO & TSR Camps, Block Offices & Panchayat offices.	56 nos.	199.00
5.2	Establishment of Micro Grid with 10 KWp Solar PV Plant	12 families	12.00

	and 2 HP submersible water pumping system at Tangshipara, Durgachowmuhani Block, Dhalai District		
5.3	Installation of 0.5 HP Solar PV pump under TRP & PTG villages (600 Wp module capacity)	69 nos.	41.40
6	Deposit work – SPV Street Lighting System		
6.1	NRuM / Tourism / TSR camps / Fishery College Campus / Cremation Grounds etc.	3909 nos.	234.54
TOTAL			2721.04

B. Solar Thermal Programme of MNRE, Govt. of India: 55.50 KWp

Sl. No.	Name of Scheme / Systems	Quantity / Capacity	Installed capacity
1	Solar Water Heating System at Hospitals / Guest Houses/ Circuit Houses/ Raj Bhawan (Erstwhile) etc.	55500 LPD	55.50 KWp

C: New National Biogas & Organic Manure Programme (NNBOMP) of MNRE, Govt. of India: 611 nos.

Sl. No.	Name of Scheme / Systems	Quantity / Capacity
1	Construction of Bio Gas Plant in the house premises of beneficiaries having minimum 3 cows / buffaloes	a) 1 cum Portable type : 325 nos. b) 1 cum Fixed type : 172 nos. c) 2 cum fixed type : 114 nos.

D. UNNAT CHULLA ABHIYAN PROGRAMME:- 980 nos.

Sl No	Programme Details	Location	Quantity
01	Community type forced draft improved Biomass cook stove	TSR Camps, Hostels, Jails etc.	119 nos.
02	Family type natural draft improved Biomass cook stove	Forest Fringe Village	861 nos.
TOTAL			980 nos.

E. AWARENESS BASED TRAINING PROGRAMME OF RE TECHNOLOGIES AND I&PA PROGRAMME: 6 nos.

Sl No	Training Programme Details	Quantity	Location	Total trained candidates
01	Energy access using RE Technologies	1 no.	West District	29 nos.
02	Rooftop Off-Grid Solar Energy Technologies	3 nos.	All Districts	93 Nos.

03	Off- Grid Solar Energy Technologies	1 no.	West, Sepahijala and Khowai Districts.	28 Nos.
04	Mini & Micro Grid using RE Technologies	1 no.	Dhalai Districts	32 Nos.
TOTAL				182 Nos.

F. WIND MONITORING STATIONS

Sl No	Programme Details	Location	Quantity
01	Establishment of 50 meter wind mast for feasibility study / wind speed mapping (R&D Programme).	Ambassa Railway Station, Kachigang Amarpur, Jampuijala and south Canania Kamalasagar	4 nos.

SERVICE CENTRES

Sl No	Programme Details	Location	Quantity
01	Solar Photovoltaic Systems	Panchayat Level, Village level & Project wise	List of service centres communicated to all users / beneficiaries

**OFF-GRID SPV POWER PLANTS: 608 KWp(Rs. 1105.69 lakh)
COMPLETED PROJECTS DURING APRIL, 2018 TO JULY, 2019**

Sl. No	Type of system	Capacity	Locations
1	Off-grid SPV Power Plants (MNRE)	300 KWp (50 KWp X 6 nos.)	1 Agartala Govt. Medical College & GB Pant Hospital, Agartala – 100 KWp, 2 Tripura Medical College & Dr. B R Ambedker Memorial Teaching Hospital, Agartala– 100 KWp, 3 Indira Gandhi Memorial Hospital, Agartala– 100 KWp.
2	Off-grid SPV Power Plants (MNRE)	75 KWp (25 KWp X 3 nos.)	1 District Hospital, Dhalai District, Kulai 2 District Hospital, North Tripura District, Dharmanagar– 3 District Hospital, Sepahijala District, Bishalghar–
4	Off-grid SPV Power Plants (MNRE)	25 KWp	State Homoeopathic Hospital
5	Off-grid SPV Power Plants (MNRE)	25 KWp	Regional Cancer Hospital
6	Off-grid SPV Power Plants (MNRE)	25 KWp	Tripura Legislative Assembly Building
7	Off-grid SPV Power Plants (MNRE)	5 KWp	State Ayurvedic Hospital
8	Off-grid SPV Power Plants (MNRE)	115 KWp (5 KWp X 23 nos.)	1. Lefunga Primary Health Centre 2. Uрмаi Primary Health Centre 3. Krishnatilla Primary Health Centre 4. Muraibari Primary Health Centre 5. Bhoterbajar Primary Health Centre 6. Bhandarima Primary Health Centre 7. Saboul Primary Health Centre 8. Gachirampara Primary Health Centre 9. Anandabazar Community Health Centre 10. Uttar Maharani Primary Health Centre 11. Taidu Primary Health Centre 12. Gorakhapa Primary Health Centre 13. Baishnabpur Primary Health Centre 14. Radhanagar Primary Health Centre 15. Maicherra Primary Health Centre 16. Ramrai Bari Primary Health Centre 17. Hatimtai (Dalapati) Primary Health Centre 18. 23 Kile (Purnamohan Tripura) Primary Health Centre 19. Hrishmukh Primary Health Centre 20. Srinagar Primary Health Centre 21. Rajkandi Primary Health Centre 22. Kadamtala Community Health Centre 23. Durgapur Primary Health Centre
9	Off-grid SPV Power Plants (MNRE)	8 KWp (2 KWp X 4 nos.)	1 Amader Ghar (Founding Home), Narsinghar 2 Institute of Visually Handicapped for Boys, Narsinghar Institute of Visually Handicapped for Girls, Narsinghar 3 Observation (Juvenile) Home, Narsinghar.
			1. Thalcherra TSR Camp, Chamanu Block, Dhalai

10	Off-grid SPV Power Plants (Deposit Work)	30 KWp (2 KWp X 15 nos.)	District 2. Birkumarpara TSR camp, Chamanu Block, Dhalai District 3. Biswarampara TSR Camp, Chamanu Block, Dhalai District 4. Thaiya Chandra Para TSR camp, Chamanu Block, Dhalai District–Bhagirata Para TSR Camp, Gandacherra Block, Dhalai District 5. New Delapati Para TSR camp, Gandacherra Block, Dhalai District 6. Rajdhanpara TSR camp, Gandacherra Block, Dhalai District–Deshraipara TSR Camp, Raishyabari Block, Dhalai District 7. Majhimani Para TSR Camp, Raishyabari Block, Dhalai District 8. Joychandra Para TSR Camp, Raishyabari Block, Dhalai District–Bijoykumar Para TSR Camp, Dasda Block, North Tripura District 9. Chaigharpur TSR Camp, Dasda RD Block, North Tripura District–Irani Police Station, Unokoti District 10. Murabari SPOs Camp, Unokoti District 11. Hiracherra SPOs Camp, Unokoti District
TOTAL		608 KWp	52 sites

**GRID CONNECTED SPV POWER PLANTS: 2.693 MWp (Rs. 73.4115 lakhs)
COMPLETED PROJECTS DURING APRIL, 2018 TO JULY, 2019**

Sl. No.	Type of system	Capacity	Target area	Status of work
1	Grid connected SPV Power Plants (MNRE)	150 KWp	Institutions and social sector (Not for profit registered organizations) Registered under Societies Registration Act. 1860 / Indian Trust Act 1882	1 ICFAI University- 100 KWp 2 Ramkrishna Mission Vidyalaya - 50 KWp
2	Grid connected SPV Power Plant (MNRE – SECI / REIL Project – RESCO Model)	2543 KWp	Govt. Establishments	2543 KWp installed at: 1. NIT, Agartala – 1000 KWp, 2. Tripura University – 500 KWp 3. Agartala Airport – 250 KWp 4. College of Fishery, Lambucherra – 160 KWp 5. Kendriya Sonsodhanagar, Bishalghar – 300 KWp 6. All India Radio- 60 KWp 7. Door Darshan – 150 KWp 8. NIELIT – 93 KWp 9. EPFO – 30 KWp
TOTAL		3043 KWp		

SPV STREET LIGHTING SYSTEM: 3205 nos
COMPLETED PROJECTS DURING APRIL, 2018 TO JULY, 2019

Sl. No.	Type of system	Quantity	Locations
1	SPV Street Lighting System (Deposit Work)	3205 nos.	1 Hrishmukh Block – 2100 nos. 2 Kakraban Block – 52 nos. 3 Killa Block – 175 nos. 4 Udaipur Hospital, Tepania Block – 20 nos. 5 Bagma Market, Tepania Block – 4 nos. 6 Tepania Eco-park – 7 nos. 7 Amlighat, Poangbari Block – 7 nos. 8 Tulashikhar Block – 7 nos. 9 Women’s College – 4 nos. 10 Karamcherra Fishery Farm – 15 nos. 11 Kamalpur Degree College – 18 nos. 12 Durgachowmuhani Block – 8 nos. 13 Sarama Fishery Farm – 15 nos. 14 Matabari Block – 95 nos. 15 Jampui Hills Block – 375 nos. 16 Chawmanu Block – 215 nos. 17 Jagannath Bari Lake, Udaipur – 16 nos. 18 Baramura Eco-park – 27 nos. 19 Dhajanagar Panchayet, Udaipur – 6 nos. 20 Chabimura, Amarpur Block – 39 nos.
TOTAL			

BIOGAS PROGRAMME: 23 nos.(Rs. 6.36 lakhs)
COMPLETED PROJECTS DURING APRIL, 2018 TO JULY, 2019

Sl. No.	Type of system	Quantity	Locations
1	Construction of Biogas Plant (MNRE)	23 nos. [Breakup: 1 2 CUM – 5 nos. 2 1 CUM – 18 nos.]	In the house premises of beneficiaries residing in: 1 Bamutia RD Block: 2 nos. 2 Dukli RD Block – 10 nos. 3 Agartala Municipal Corporation: 1 no. 4 Khowai RD Block: 1 no. 5 Nalchar RD Block: 5 nos. 6 Kakraban RD Block – 4 nos.

UNNAT CHULLAH AVHIYAN:- 31 nos.: Rs. 3.10 lakhs
COMPLETED PROJECTS DURING APRIL, 2018 TO JULY, 2019

Sl. No.	Type of system	Quantity	Locations
1	Community Type Forced Type Improved Biomass Cook Stove (MNRE)	31 nos.	1 ICDS Centre, Padmabil RD Block, Khowai District – 16 nos. 2 Holy Cross Boys Town, Vidhjungnagar, Kamalghat – 2 nos. 3 1 st Battalion TSR – 3 nos. 4 3 rd Battalion TSR – 6 nos. 5 7 th Battalion TSR – 1 no. 6 Auxilium Girls Hostel – 1 no. 7 Avoy Mission, Sakerkote – 1 no. 8 Oisho Baniniketan, Circuit House – 1 no.

PUBLICATION & AWARENESS CAMPAIGN: Rs. 1.80 lakhs
COMPLETED PROJECTS DURING APRIL, 2018 TO JULY, 2019

Sl. No.	Item	Quantity	Target Group	Locations
1	Community Type Forced Type Improved Biomass Cook Stove (MNRE)	1 no.	General public – 45 nos.	CDPO Office, Padmabil RD Block, Khowai District
2	Participation in Fair	1 no.	--	6 th North East Youth Festival, Children's Park, Agartala
3	Merit Award for Madhyamik & Higher Secondary Students – 2019 & Publicity cum Awareness Programme on Biogas Plant	1 no.	General public – 860 nos.	Liladeb Smriti Community Hall, Charilam, Sepahijala District
4	User Training Courses on Biogas Plant	2 nos.	General public – 40 nos.	1 Tulashikhar RD Block, Khowai 2 Kulai RD Block, Dhalai District
TOTAL		5 nos.		