



**GOVERNMENT OF KERALA**

**Abstract**

Power Department- Administrative Approval for an amount of Rs 5300 Lakhs for plan activities of Agency for Non-conventional Energy & Rural Technology (ANERT) for the year 2018-19 – Accorded - Orders issued.

**POWER (PS) DEPARTMENT**

**G.O.(Rt)No.120/2018/POWER** Dated, Thiruvananthapuram,  
25/06/2018

Read 1 Letter No.5072/Plan/ANERT/2018 dated 09.05.2018 from the Director, ANERT.

2

Minutes of the Working Group Meeting held on 18.05.2018

**ORDER**

As per the letter read as 1st paper above, the Director, ANERT has requested Administrative Approval for implementation of the following plan activities by utilizing the Grant-in- Aid provision available in the current year's Budget.

No	Activities	Project cost (Rs. in Lakhs)	Overhead expense (Rs.in Lakhs)	Budget Allocation (Rs. in Lakhs)
<b>I</b>	<b>Programmes on Renewable Energy [2810-00-800-90 (06)]</b>			<b>3830.00</b>
1	Solar Power Plants in public buildings (on-grid & off-grid)	818.50	122.00	<b>940.50</b>
2	Supporting R&D and innovation	189.00	24.50	<b>213.50</b>
3	Procurement of battery operated mobile exhibition unit	14.60	2.19	<b>16.79</b>
4	Ramakkalmedu Solar-Wind-Storage Hybrid – Phase 2	860.00	129.00	<b>989.00</b>
5	Installation of Solar Cold Storage – Pilot Demo project	41.00	6.15	<b>47.15</b>
6	Accreditation of Solar Power Plant Installers (Technicians)	53.63	8.04	<b>61.67</b>

7	Micro grids utilising Small Wind Energy and Solar Hybrid Systems for Ponmudi Hill Station	136.00	20.40	<b>156.40</b>
8	IPR Cell in ANERT for adoption and propagation of RE technologies	10.43	1.57	<b>12.00</b>
9	Innovative RE Projects – Pilot Project on Solar Power Coir Ratt	14.35	2.15	<b>16.50</b>
10	Extension of RE Projects in public building - local body wise campaigns	187.76	28.16	<b>215.92</b>
11	Extension of Renewable Energy Projects in public buildings - Formation of Stake holders forum - “Solar Club” and related activities	48.80	7.32	<b>56.12</b>
12	Supporting front runners of Solar Rooftop Programme	208.00	31.20	<b>239.20</b>
13	Design Challenge and Setting up of Solar PV Operated House Boats	60.00	9.00	<b>69.00</b>
14	Pilot solarisation of 100 nos. of farm pumps in Chittoor constituency	310.00	46.50	<b>356.50</b>
15	Integrated Agro-Solar Farming	47.00	7.00	<b>54.00</b>
16	“Jyothi” - Solar lighting for vendors	55.00	8.25	<b>63.25</b>
17	Promotional Incentives for RE Devices other than SPV devices	80.50	12.00	<b>92.50</b>
18	eMarketPlace – incentivising users for utilising the electronic market place (www.buymysun.com) under an early bird scheme	200.00	30.00	<b>230.00</b>
<b>II</b>	<b>Renewable Energy Public Engagement, Outreach, Studies &amp; Development [2810-00-800-90 (07)]</b>			<b>1470.00</b>
1	Establishment of Integrated Renewable Energy Complexes in all the 14 districts	220.00	33.00	253.00
2	Public Awareness Programmes	74.00	11.00	85.00
3	Akshaya Urja Service Centres	148.00	22.00	170.00
4	Capacity Building and Outreach	75.00	11.00	86.00
5	PR, Advertising & Branding (Mass Campaigns)	122.00	18.00	140.00
6	Kerala State Renewable Energy Award 2018	45.00	6.75	51.75
7	Extending insurance coverage for RE systems registered through “Souraveedhi” mobile application	70.00	10.50	80.50

8	Extending accident insurance coverage for ANERT empanelled RE Technicians and staff of ANERT involved in field assignments	5.00	1.00	6.00
9	Supporting Kerala based entrepreneurs and business establishments in Solar Industry for business improvement by setting up common pavilion in reputed exhibitions	44.00	6.60	50.60
10	PR, Advertising and Branding through various media	125.00	18.75	143.75
11	Centre of Excellence and Innovation Hub			66.70
12	IT infrastructure including KSWAN connectivity	10.00	1.00	11.00
13	e-Governance	15.00	2.25	17.25
14	Accreditation of Solar Power Plant Inspectors	233.03	34.97	268.00
15	Installation of Solar based water purifier system	35.20	5.25	40.45
<b>Total</b>				<b>5300.00</b>

2) Working Group meeting held on 18.05.2018 examined the project proposals in detail with reference to the plan write up. After detailed discussion, the Working Group recommended approval of the plan schemes, details of which are appended hereto.

3) Government have examined the matter in detail and are pleased to accord Administrative Approval for the ongoing schemes of ANERT at an estimated cost of Rs. 5300 Lakhs (Rupees five thousand lakhs only) as recommended by the Working Group detailed in the Appendix. Expenditure for projects under Item No. I- Programmes on Renewable Energy will be met from the Head of Account 2810-00-800-90 (06) and for projects under Item No. II- Renewable Energy Public Engagement, Outreach, Studies & Development will be met from the Head of Account 2810-00-800-90 (07) in the current year's Budget provision, subject to the following general conditions:

**General Conditions:**

- 1) The expenditure would be met from the provision available under the appropriate Head of Account and for the purpose mentioned above.
- 2) The fund release will be based on actual requirement and the fund released should not be parked in Banks.
- 3) Store Purchase Rules shall be strictly adhered to.
- 4) Tender/e-tender and other stipulated formalities shall be followed wherever necessary.
- 5) For civil works, CPWD rates shall be followed.

- 6) Post creation and purchase of vehicles are not admissible under the scheme.
- 7) ANERT, the implementing agency will monitor and implement the programmes through the District Offices of ANERT

(By order of the Governor)  
**BISHWANATH SINHA IAS**  
**PRINCIPAL SECRETARY**

To:

The Director, ANERT, Vikas Bhavan, Thiruvananthapuram -695 033.

The Member Secretary, State Planning Board, Pattom, Thiruvananthapuram.

The Accountant General (A&E), Kerala, Thiruvananthapuram.

The Principal Accountant General (Audit), Kerala, Thiruvananthapuram.

The Finance Department

The Information & Public Relations(Web & New Media) Department

(for publishing in official website)

Stock file/Office copy.

Forwarded /By order

Section Officer

## APPENDIX

### DETAILS OF PLAN SCHEMES APPROVED AS RECOMMENDED BY THE WORKING GROUP

#### I. **Programmes on Renewable Energy**

**Administrative Sanction Amount: Rs 3830 lakhs**

**Head of Account : “2810-00-800-90 (06)”**

#### **I.1 Solar Power Plants in public buildings (on-grid & off-grid); Rs.940.50 lakh**

- The programme shall be implemented in six selected local bodies as pilot project. Selected LSGs are (1) Thrissur Corporation – representation of Urban area (2) Trivandrum Corporation - representation of smart city (3) Peelicode Grama Panchayat - representation of a coastal area (4) Pinarayi Grama Panchayat - representation of Northern Kerala (5) Aryad Grama Panchayat in Southern Kerala and (6) Nedumkandom Grama Panchayath – representation of a hilly area.
- A 50kW solar grid connected power plant in an open waste land identified by the Peelicode grama panchayat near the Kannadippara Chakkiliya SC colony to make this a ‘zero net electricity consumer’ shall also be implemented.
- The total expenditure of Rs. 940.50 lakh shall be debited to the h/a 2810-00-800-90 (06) as project cost of Rs. 818.50 lakhs and Rs.122.0 lakh as project over head expenses including man power of ANERT for implementing the project.

#### **I.2 Supporting R&D and innovation; Rs.213.50 lakh**

- The objective of the scheme is to promote innovative ideas and technology adaptations in renewable energy.
- Financial and technical support shall be given for technical studies, technology evaluation, making of prototypes etc. on the basis of technically feasible proposals. The technical feasibility of the proposals shall be evaluated by an expert committee. The committee constituted last year for the same purpose shall continue. On the basis of the recommendations of the Technical Committee an average financial support of Rs 5 lakhs shall be given for single project.
- It is proposed to support 14 such projects during the current financial year.
- In areas where frequent power interruptions are common, on-grid power plants have the disadvantage of not supplying power during such periods. To address this issue, ANERT will introduce solar hybrid system, which provide limited storage of

electricity for use when grid fails. This year, 70 kW is proposed in selected schools and institutions.

- The total expenditure of Rs. 213.50 lakh shall be debited to the h/a 2810-00-800-90 (06) as project cost of Rs. 189 lakhs and Rs.24.5 lakh as project over head expenses including man power of ANERT for implementing the project.

### **I.3 Procurement of battery operated mobile exhibition unit; Rs.16.79 lakh**

- To establish mobile display unit (battery operated) including procurement of electric vehicle with display units to showcase the latest technology in the field of renewable energy.
- The total expenditure of Rs. 16.79 lakh shall be debited to the h/a 2810-00-800-90 (06) as project cost of Rs. 14.60 lakhs and Rs.2.19 lakh as project over head expenses including man power of ANERT for implementing the project.

### **I.4 Ramakkalmedu Solar-Wind-Storage Hybrid – Phase 2; Rs.989.00 lakh**

- In the first phase, during 2017-18 the development of an indigenous solar PV inverter to suit Kerala's grid conditions and piloting the power conditioning at the solar power plant, with the support of CDAC was initiated.
- The objectives of the project in phase 2 are to establish wind energy generation (500 kW to 600 kW); to initiate the hybrid-storage controller development with the help of CDAC; initiate the establishment of energy storage facility and to establish connectivity to the grid for power evacuation, as suggested by KSEBL, including exploring the option of micro grid.
- The total expenditure of Rs. 989 lakh shall be debited to the h/a 2810-00-800-90 (06) as the project cost of Rs.860 lakhs and Rs.129 lakh as project over head expenses including man power of ANERT for implementing the project.

### **I.5 Installation of Solar Cold Storage–Pilot Demo project; Rs.47.15 lakh**

- Installation solar powered cold storage solutions as pilot to support farmers co-operatives/self help groups/govt./quasi government institutions including studies, stakeholders' workshop , site survey, tendering, inspection, etc.
- The total expenditure of Rs. 47.15 lakh shall be debited to the h/a 2810-00-800-90 (06) as the project cost of Rs.41 lakhs and Rs.6.15 lakh as project over head expenses including man power of ANERT for implementing the project.

**I.6 Accreditation of Solar Power Plant Installers (Technicians); Rs.61.67 lakh**

- This scheme intends to train and accredit professionals as solar power plant installers. Preference shall be given to candidates with Wireman Certificate, Electrical Supervisor/Contractor Certificate.
- The training shall be imparted through accredited training centers of Skill Council for Green Jobs.
- The timely implementation and monitoring of the programmes will be ensured through the Centre for Management Development, Thiruvananthapuram.
- First 150 number of candidates will be fully supported financially by ANERT and the second batch of 150 candidates will be provided financial support of 50% of the course expenditure.
- The total expenditure of Rs. 61.67 lakh shall be debited to the h/a 2810-00-800-90 (06) as project cost of Rs.53.63 lakhs and Rs.8.04 lakh as project over head expenses including man power of ANERT for implementing the project.

**I.7 Micro grids utilising Small Wind Energy and Solar Hybrid Systems for Ponmudi Hill Station; Rs.156.40 lakh**

- Micro grids utilising Small Wind Energy and Solar Hybrid Systems for selected sites at Ponmudi Hill Station in Thiruvananthapuram District and Preparation of DPR for setting up a Utility interactive Smart Microgrid in the Ponmudi region utilising Wind – Solar Hybrid Systems forms part of this project.
- The total expenditure of Rs. 156.40 lakh shall be debited to the h/a 2810-00-800-90 (06) as project cost of Rs.136 lakhs and Rs.20.40 lakh as project over head expenses including man power of ANERT for implementing the project.

**I.8 IPR Cell in ANERT for adoption and propagation of RE technologies; Rs.12.00 lakh**

- To conduct patent search and analysis in renewable energy field, the proposed IPR Cell in ANERT is approved.
- The total expenditure of Rs. 12 lakh shall be debited to the h/a 2810-00-800-90 (06) as project cost of Rs.10.43lakhs and Rs.1.57 lakh as project over head expenses including man power of ANERT for implementing the project.

**I.9 Innovative RE Projects – Pilot Project on Solar Power Coir Ratt; Rs.16.50 lakh**

- A pilot project of the solar powered coir ratt in the below mentioned coir societies at

Vaikom of Kottayam district is approved.

- CVCS No.57 Akkarappadam – 2 kW off grid solar plant
- CVCS No. 33 T V Puram – 1 kW off grid solar plant
- It is also proposed to conduct study on the socio-economic impact of this project (pre & post installation), Dissemination workshop and proposal preparation for solarizing the entire coir ratt in the State.
- The total expenditure of Rs. 16.50 lakh shall be debited to the h/a 2810-00-800-90 (06) as project cost of Rs.14.35 lakhs and Rs.2.15 lakh as project over head expenses including man power of ANERT for implementing the project.

**I.10 Extension of RE Projects in public building - local body wise campaigns; Rs. 215.92 lakhs**

- In this program, local body wise target of roof top solar will be arrived and support will be given to local bodies for project formulation, campaign, honorarium for technical support, implementation and monitoring. As first phase 6 corporations, 30 municipalities and 50 Grama Panchayaths will be selected for campaign. Seminars and workshops shall be organized and technical man power support shall also be provided to such local bodies. 6 Corporations shall be provided with 2 Solar Technicians; 30 Municipalities with 1 Solar Technician each and 50 Grama Panchayath will be provided with shared service of Solar technician (1 solar technician has to handle average 4 Grama Panchayaths).
- Project management support and Help line facility for the campaign will be established through Centre for Management Development.
- The total expenditure of Rs. 215.92 lakh shall be debited to the h/a 2810-00-800-90 (06) as project cost of Rs.187.76lakhs and Rs.28.16 lakh as project over head expenses including man power of ANERT for implementing the project.

**I.11 Extension of Renewable Energy Projects in public buildings - Formation of Stake holders forum - “Solar Club” and related activities; Rs.56.12 lakh**

- This program is to establish a common platform for stake holders of Solar Rooftop Power Plant Programme and formulate various public activities to support implementation of Solar Rooftop Power plant programme including innovative and pilot programmes.
- Licensed installers, empanelled manufactures, accredited inspectors, technical



resource persons, beneficiaries of various schemes, etc can be the part of this Forum.

- Discussion forums, technical groups will also established and managed by Solar Club. ANERT will provide a corpus contribution and contribution from other members will also be collected and with the interest earned from this the day to day activities of the solar club can be managed from 2nd year onwards.
- A desk space shall be provided at ANERT headquarters for the functioning of the solar club.
- A student internship programme is also approved as an activity of Solar club. This program will be implemented with the support of Centre for Management Development. This includes a one-time corpus contribution of Rs 25 lakhs, hand holding for 1st year with man-power support, meetings of stakeholders, publicity, web application, etc.
- The total expenditure of Rs. 56.12 lakh shall be debited to the h/a 2810-00-800-90 (06) as project cost of Rs.48.80lakhs and Rs.7.32 lakh as project over head expenses including man power of ANERT for implementing the project.

#### **I.12 Supporting front runners of Solar Rooftop Programme; Rs.239.20 lakh**

- The 10,000 numbers 1 kW each off-grid rooftop power plant programme initiated by ANERT during 2012-13 was a national model, which received recognition. 9837 systems were installed under this programme and the green commitment by the front runners, taking risk for installation of such systems in its early stage, without much of technological maturity made this programme successful. Some of the initial installations crossed the warranty period and are showing certain defects.
- This program is aimed at incentivizing front runners who encouraged the implementation of Solar rooftop programme. An incentive of Rs 20000/- (maximum) shall be provided to such identified 1000 front runners for reviving the systems based on the certification by inspector accredited by ANERT or certification by “UrjaMithra” Akshaya Urja service centres.
- The total expenditure of Rs. 239.20 lakh shall be debited to the h/a 2810-00-800-90 (06) as project cost of Rs.208lakhs and Rs.31.20 lakh as project over head expenses including man power of ANERT for implementing the project.

#### **I.13 Design Challenge and Setting up of Solar PV Operated House Boats; Rs.69.00 lakh**

- In this innovative scheme, the proposals furnished will be evaluated by a technical

committee and the competent tenderer will be permitted to construct the house boats as per the approved design. A total of five solar powered house boats will be considered as a pilot project. The financial incentive applicable for each boat will be @ Rs. 12 lakh or 30 % of the total cost of the boat, whichever is lower. The financial incentive will be released on satisfactory performance or on commissioning of the boats.

- The total expenditure of Rs. 69 lakh shall be debited to the h/a 2810-00-800-90 (06) as project cost of Rs.60 lakhs and Rs.9 lakh as project over head expenses including man power of ANERT for implementing the project.

**I.14 Pilot solarisation of 100 nos of farm pumps in Chittoor constituency; Rs.356.50 lakh**

- The objective of the scheme is to solarize selected 100 numbers of 2- 10 HP capacity agricultural pump sets in Chittoor constituency in Palakkad district, with 60% financial support to the farmers.
- The total expenditure of Rs. 356.50 lakh shall be debited to the h/a 2810-00-800-90 (06) as project cost of Rs.310lakhs and Rs.46.50 lakh as project over head expenses including man power of ANERT for implementing the project.

**I.15 Integrated Agro-Solar Farming; Rs.54.00 lakh**

- Pilot installation of solar modules at elevated positions over vegetable cultivation in 1 acre of land to assess the feasibility and productivity loss, if any, is approved for the site Kampalathara, at Perumatty Grama panchayath, Palakkad. This site is under Palakkad District Agricultural Produce, Manufacturing & Marketing Co-operative Society. Documentation, stakeholder consultation, design and implementation forms part of this project.
- The total expenditure of Rs. 54lakh shall be debited to the h/a 2810-00-800-90 (06) as project cost of Rs.47lakhs and Rs.7lakh as project over head expenses including man power of ANERT for implementing the project.

**I.16 “Jyothi” - Solar lighting for vendors; Rs. 63.25 lakh**

- Objective of the scheme is to eliminate the use of kerosene lamp of street vendors like fish stalls, thattukada, vegetable stalls, fruit stalls, etc.
- A new design for an excellent compact water resistant solar lantern and also a new model for mini solar power pack exclusively for street vender will be invited and selected designs will be rewarded. ANERT does the vendor development & provides

technical assistance.

- The total expenditure of Rs. 63.25 lakh shall be debited to the h/a 2810-00-800-90 (06) as project cost of Rs.55lakhs and Rs.8.25 lakh as project over head expenses including man power of ANERT for implementing the project.

**I.17 Promotional Incentives for RE Devices other than SPV devices: Rs.92.50 lakh**

- This project is to provide incentives to motivate various organization like registered NGOs, Residential Associations, Akshaya Urja Service Centres, etc to promote installation of Renewable Energy other than SPV Systems like Biogas Plants, Solar Water Heater and Improved Chulhas.
- The devices must installed as per ANERT specification and by the empanelled agencies at the rates approved by ANERT. During the current financial year 2018-19 the proposal to give incentive for 3000 numbers of improved chulhas @ Rs.350/- at a cost of Rs 10.50 Lakhs, for 4000 numbers of Biogas Plants @ Rs.1,000/- at a cost of Rs 40 Lakhs and for 4000 numbers of Solar Water Heater (100 LPD and above) @ Rs.750/- at a cost of Rs 30 Lakhs is approved.
- The total expenditure of Rs. 92.50 lakh shall be debited to the h/a 2810-00-800-90 (06) as project cost of Rs.80.50 lakhs and Rs.12 lakh as project over head expenses including man power of ANERT for implementing the project.

**I.18 eMarketPlace – incentivising users for utilising the electronic market place (www.buymysun.com) under an early bird scheme; Rs 230 lakhs**

- ANERT had developed an emarketplace as part of its eGovernance initiatives. The paperless implementation steps will be facilitated by programme management portal and mobile apps along with this marketplace.
- To promote the electronic marketplace the proposal for incentivising the buyers by providing 10% discount till the total order value reaches Rs. 20 crore to all buyers who order through electronic marketplace is approved.
- The total expenditure of Rs. 230 lakh shall be debited to the h/a 2810-00-800-90 (06) as project cost of Rs.200lakhs and Rs.30 lakh as project over head expenses including man power of ANERT for implementing the project.

## **II. Renewable Energy Public Engagement, Outreach, Studies & Development**

**Administrative Sanction Amount: Rs 1470 lakhs**

**Head of Account : “2810-00-800-90 (07)”**

### **II.1 Establishment of Integrated Renewable Energy Complexes in all the 14 districts; Rs.253 lakh**

- The objective of the scheme is to host a people friendly permanent exhibition facility of Renewable Energy. It will be an Educational Hub for different category of people to create awareness as well as user education in the field of installation, maintenance and repair of Renewable Energy Devices. Project includes Fixed Exhibition Arrangements - Audio visual equipment including LED TV, Solar Plants, Furnishing, Models & Display boards, Digital & Visual Package etc.; Rent of Office (average Rs. 15,000/- per month); Hire charge of Vehicles (Average Rs. 25,000/- per month); Contingent Expenses (Average Rs. 12,500/- per months) and technical man power support to LSGIs for preparation of Feasibility Reports, installation, Supervisions and Inspection of RE Projects for a cost of Rs. 16.80 Lakhs; Infrastructure Facility at ANERT HQ (Guest House, Hall arrangements, Painting, etc) at a cost of Rs 17 Lakhs.
- The total expenditure of Rs. 253 lakh shall be debited to the h/a 2810-00-800-90 (07) as project cost of Rs.220 lakhs and Rs.33 lakh as project over head expenses including man power of ANERT for implementing the project.

### **II.2 Public Awareness Programmes; Rs.85 lakh**

- The approved programs include conducting or participating in 50 numbers of exhibitions of duration up to 7 days at a cost of Rs 15.00 lakhs; conducting or participating in 25 numbers of exhibitions of duration more than a week at a cost of Rs 25.00 lakhs; conducting 150 numbers of Orientation and Awareness Programmes at a cost of Rs 15.00 lakhs; publishing ‘SouraVeedhi’ Newsletter and printing Brochures & Booklets on Renewable Energy at a cost of Rs 10.00 lakhs; conducting or sponsoring 30 numbers of Seminars or conferences on Renewable Energy at a cost of Rs 9.00 lakhs.
- The total expenditure of Rs. 85 lakh shall be debited to the h/a 2810-00-800-90 (07) as project cost of 74lakhs and Rs.11 lakh as project over head expenses including man power of ANERT for implementing the project.

### **II.3 Akshaya Urja Service Centres; Rs.170 lakh**

- This programme is to provide support to 140 Akshaya Urja Service Centres. Approval given to conduct 4 Entrepreneurial development programmes for selected 140 Urja Mithra Entrepreneurs in association with Kerala Institute of Entrepreneurship Development (KIED) at cost of Rs. 8 lakhs and 14 skill development programmes for 420 technicians in association with SCGI affiliated institutions at a cost of Rs. 56 Lakhs. It is approved to provide a free visit for the customers registered in the RE census programme. The expense for the visit will be reimbursed to the Akshaya Urja Service Centres by ANERT @Rs.250/- for a system at a cost of Rs 84 lakhs.
- The total expenditure of Rs. 170 lakh shall be debited to the h/a 2810-00-800-90 (07) as project cost of Rs.148lakhs and Rs.22 lakh as project over head expenses including man power of ANERT for implementing the project.

### **II.4 Capacity Building and Outreach; Rs.86 lakh**

- The objective of the scheme is to extend technical and financial support capacity building programmes/trainings/workshops/symposia etc. on renewable energy for different target groups like students, voluntary organisations, local body institutions, educational institutions, residence associations, clubs, builders, architects etc. Thirty numbers of such programmes at an average cost of Rs. 2 lakhs per programme is approved. In addition, Rs 15 lakhs is approved for undertaking capacity building for officers, staff and associates of ANERT.
- The total expenditure of Rs.86 lakh shall be debited to the h/a 2810-00-800-90 (07) as project cost of Rs.75lakhs and Rs.11 lakh as project over head expenses including man power of ANERT for implementing the project.

### **II.5 PR, Advertising & Branding (Mass Campaigns): Rs.140 lakh**

- The objective of the scheme is to motivate the targeted potential groups to invest money in Renewable energy sector and the following proposals are approved. (a) A state wide 'Road Show' by Malayala Manorama which includes an Expert presentation, Short Film, Magic Show etc for 30 days. Minimum three programmes will be conducted each day. A specially designed vehicle with the crew will travel for 30 days throughout the state as a part of this campaign. A customized web page will be opened with link to Manorama online which gives all the details of the campaign programme for 30 days. The total cost of the campaign is Rs. 52 Lakhs. Approval given for providing 50% as advance (b) Mathrubhumi Printing and publishing Co. Ltd. shall publish a 4 page pull-out in the 7 editions of the daily and 70,000 copies of

20 page 1/8 size booklet through 'Grihalakshmi' magazine in five districts (Pathanamthitta, Malappuram, Alappuzha, Kottayam and Palakkad) and 4 native advertisements in Mathrubhumi online for 52 weeks in the financial year. The total cost of the project is Rs. 45 Lakhs (c) Deshabhimani online shall organise a three day event which will bring all the stakeholders like high end electricity consumers, LSG leaders, manufacturers and dealers, builders and designers to a common platform. The total expense for the project is estimated as Rs. 25 Lakhs. Approval given for providing 50% as advance. The total expenses for all these campaigns together is Rs. 122 Lakhs.

- The total expenditure of Rs. 140 lakh shall be debited to the h/a 2810-00-800-90 (07) as project cost of Rs.122lakhs and Rs.18 lakh as project over head expenses including man power of ANERT for implementing the project.

#### **II.6 Kerala State Renewable Energy Award 2018; Rs.51.75 lakh**

- Government of Kerala has constituted the “Kerala State Renewable Energy Awards” from 2017, in order to promote excellence in various areas of new and renewable energy technologies in the State. The awards are given in the form of a Plaque with appropriate citation on such award, as may be decided by the State Level Monitoring Committee for Renewable Energy Awards in Kerala. The following are the categories included for considering the award: (a) Outstanding contribution in Renewable Energy (individual) - on nomination basis (b) Industrial Units (c) Commercial Consumers (d) Educational Institutions (e) Public Institutions (f) Non-profit organisations (g) Local Self Governments (h) Individuals (i) Research & Innovation (individuals & institutions) and (j) RE Power industry (IPPs, RE system integrators, RE system manufacturers etc.). For Category (a), Prize shall be Rs 1,00,000/- cash prize, Plaque & Citation and for categories (b) to (j) first prize shall be Rs 1,00,000/- cash prize, Plaque & Citation and second prize shall be Plaque & citation. Also includes award prize money, award conferring ceremony, akshaya urjolsavam, etc.
- The total expenditure of Rs. 51.75 lakh shall be debited to the h/a 2810-00-800-90 (07) as project cost of Rs.45lakhs and Rs.6.75 lakh as project over head expenses including man power of ANERT for implementing the project.

#### **II.7 Extending insurance coverage for RE systems registered through “Souraveedhi” mobile application; Rs.80.50 lakh**

- During the year 2017-18 ANERT have launched a mobile application - “Souraveedhi” – with the facility for registering the RE projects/installations (with details of promoter, location, system specs etc). To motivate the customers to subscribe to the app to get the data, one year insurance will be given to the RE system installed

during the last five years at a premium of around Rs 100/lakh at a total cost of Rs 70 lakhs through a Government of India owned insurance provider.

- The total expenditure of Rs. 80.50 lakh shall be debited to the h/a 2810-00-800-90 (07) as project cost of Rs.70 lakhs and Rs.10.5 lakh as project over head expenses including man power of ANERT for implementing the project.

#### **II.8 Extending accident insurance coverage for ANERT empanelled RE Technicians and staff of ANERT involved in field assignments; Rs.6.00 lakh**

- Approval provided for accident insurance coverage including medical expenses of Rs 30,000/- and death compensation of Rs 3 lakhs for a premium of Rs 500/- for ANERT empanelled Renewable Energy/Urja Mithra Technicians and all staffs of ANERT involved in field assignments at a cost Rs 5 lakhs through a Government of India owned insurance provider.
- The total expenditure of Rs. 6 lakh shall be debited to the h/a 2810-00-800-90 (07) as project cost of Rs.5lakhs and Rs.1 lakh as project over head expenses including man power of ANERT for implementing the project.

#### **II.9 Supporting Kerala based entrepreneurs and business establishments in Solar Industry for business improvement by setting up common pavilion in reputed exhibitions; Rs.50.60 lakh**

- Exposure to agencies in Kerala through participation in reputed exhibitions and seminars will be an opportunity to start-up groups and small business establishments. This will in turn improve the quality of installations and thus improve the acceptance in general public. Cost of participation (registration fee included) and setting up common pavilion in reputed exhibitions (like Inter solar) at a cost of Rs 44 lakhs is approved.
- The total expenditure of Rs. 50.60 lakh shall be debited to the h/a 2810-00-800-90 (07) as project cost of Rs.44lakhs and Rs.6.60 lakh as project over head expenses including man power of ANERT for implementing the project.

#### **II.10 PR, Advertising and Branding through various media; Rs.143.75 lakh**

- A massive campaign focused on the specific issues connected with dissemination of Renewable Energy devices capable of making habitual changes in the minds of the people is required. State Institute of Education and Training (SIET) shall prepare 16

nos. educational films of about 15-20 minutes duration based on the working principles of renewable energy systems and activities of ANERT. These films will be broadcasted through Doordarsan on a weekly basis. An amount of Rs.15 lakhs is approved for the production of films and another 15 lakhs for the telecast of the films. An amount of Rs. 20 lakhs is approved for the programmes through AIR (FM& AM) and Rs. 15 lakhs for the programmes through private FMs. An amount of Rs. 60 lakhs is approved for advertisements and sponsorship.

•

The total expenditure of Rs. 143.75 lakh shall be debited to the h/a 2810-00-800-90 (07) as project cost of Rs.125lakhs and Rs.18.75 lakh as project over head expenses including man power of ANERT for implementing the project.

### **II.11 Centre of Excellence and Innovation Hub; Rs.66.70 lakh**

- A training centre sanctioned to be developed at the ANERT land available at Kuzhalmannam shall be developed as a centre of excellence with energy park, innovation hub, training centre, visitors' centre, etc. in phases. The innovation hub will be operationalised in collaboration with agencies such as Kerala Development & Innovation Strategic Council (K-DISC). In the initial phase a detailed blue print shall be developed for the centre of excellence, innovation hub and training centre. In addition, ANERT will support setting up of test labs and R&D Cells in reputed institutions like STIC of CUSAT. Preparation of a DPR for establishing training facility on renewable energy at KILA for local government personnel is also approved.
- The total expenditure of Rs. 66.70 lakh shall be debited to the h/a 2810-00-800-90 (07) as project cost of Rs.58lakhs and Rs.8.7 lakh as project over head expenses including man power of ANERT for implementing the project.

### **II.12 IT infrastructure including KSWAN connectivity; Rs.11.00 lakh**

- KSWAN and Internet connectivity and up-gradation of ANERT's IT infrastructure.
- The total expenditure of Rs. 11 lakh shall be debited to the h/a 2810-00-800-90 (07) as project cost of Rs.10 lakhs and Rs.1 lakh as project over head expenses including man power of ANERT for implementing the project.

### **II.13 eGovernance; Rs.17.25 lakh**

- eGovernance activities have been initiated in ANERT in a big way during 2017-18 with eOffice, development of portal for managing programmes, emarketplace, mobile apps, etc. Testing and security certification by ERTL or a CERT approved agency and updation of software including mobile apps with AMC will be



undertaken during the current year. Operation of eMarketplace, after the initial trial run, will be entrusted to an agency such as Keltron or an SPV to operate it on a commercial basis with approval of vendors and devices/systems on emarketplace continuing to be handled by ANERT.

- The total expenditure of Rs. 17.25 lakh shall be debited to the h/a 2810-00-800-90 (07) as project cost of Rs.15lakhs and Rs.2.25 lakh as project over head expenses including man power of ANERT for implementing the project.

#### **II.14 Accreditation of Solar Power Plant Inspectors; Rs.268.00 lakh**

- This programme is to accredit Technical Persons for the Inspection of Solar Power Plant in Institutions/Households. This scheme intends to train and accredit 180 professionals as Solar Power Plant Inspectors. The training shall be imparted through accredited training centers of Skill Council for Green Jobs. ANERT district office and headquarters will be equipped with necessary instrumentation and equipments to support inspections and testing. The timely implementation and monitoring of the programmes will be ensured through the Centre for Management Development, Thiruvananthapuram. First 60 number of candidates will be fully supported financially by ANERT, the second batch of 60 candidates will be provided financial support of 50% and the third batch of 60 candidates will be provided financial support of 25% of the course expenditure. Inspection of 3000 installations @ Rs.2500/- per site is also approved.
- The total expenditure of Rs. 268 lakh shall be debited to the h/a 2810-00-800-90 (07) as project cost of Rs.233.03lakhs and Rs.34.97 lakh as project over head expenses including man power of ANERT for implementing the project.

#### **II.15 Installation of Solar based water purifier system; Rs.40.45 lakh**

- This programme is to provide 1000 litres of drinking water per day through solar power based water purifier system. The system will reduce the use of bottled drinking water, reducing the plastic wastes and litter free public places. Installation of two such systems, studies, stakeholders' workshop, site survey, tendering, inspection, etc.
- The total expenditure of Rs. 40.45 lakh shall be debited to the h/a 2810-00-800-90 (07) as project cost of Rs.35.20lakhs and Rs.5.25 lakh as project over head expenses including man power of ANERT for implementing the project.

