Detailed Work Plan of Programmes of JREDA during the financial year 2015-16

1. National Biogas Programme:

Under National Biogas Programme, installation of a total of 764 M³ capacity biogas plants of (plant size 2-6 M³) are to be carried out both at domestic and institution level which will cover the tribal beneficiaries as well as general beneficiaries during the financial 2015-16.

The objectives of the scheme are as follows:

- To provide clean gaseous fuel mainly for cooking purposes and organic manure to rural and semi urban households through family type biogas plants,
- ii. To mitigate drudgery of rural women, reduce pressure on forests and accentuate social benefits;
- iii. To improve sanitation in villages by linking sanitary toilets with biogas plants;
- iv. To provide bio digested slurry (liquid / semi-solid and dried) as an upgraded source of enrichment for manure to reduce and / or supplement use of chemical fertilizers; by linking biogas digested slurry with enrichment units such as wormy-composting plants and other organic enrichment facilities of slurry.
- v. To meet 'lifeline energy' needs for cooking as envisaged in "Integrated Energy Policy" report of the Planning Commission.
- vi. To help in combating and reduction in causes of climate change by preventing emissions of carbon dioxide and methane into the atmosphere.

Beneficiary:

Beneficiary will be any individual of general/Scheduled Castes/Scheduled Tribes of Jharkhand state having adequate cowdung (25 Kg per day per 1M³) and ready to pay the fixed beneficiary amount. JREDA will promote this programme through wide publicity and also invite online application.

Approved Model:

Approved model of MNRE for family type biogas will be only applicable.

Agency: Programme will be implemented through registered NGO's /Agency has sufficient experience in biogas plant construction.

Cost of the programme:

Cost of the programme for each type /capacity is as mentioned above. The estimated cost is based on the current schedule rate of Building Construction Department.

As per MNRE sanction order no. 5-5/2014-BE (NBMMP) dated 30.06.2014, the Central Financial Assistance (CFA) has been fixed as following:

- i. For scheduled castes/scheduled tribes @ Rs. 11000/- each for 2-6 cubic meter.
- ii. For general category other than the above @ Rs. 9000/- each for 2-6 cubic meter.

The detail of programme is as following:

Sl.	Type/	Estimated	Central	State	Beneficiary	Proposed	Proposed	Type of
No.	Capacity	Cost	Share	Share	Share	qty.	Amount	beneficiaries
		(in Rs.)	(in Rs.)	(in Rs.)	(in Rs.)		(in Rs.)	
1	$2M^3$	18000/-	9000/-		9000/-	25	/-	Individual
2	$4M^3$	28000/-	9000/-	7000/-	12000/-	120	840000/-	beneficiary
3	6M ³	36000/-	9000/-	15000/-	12000/-	39	585000/-	having adequate
								cowdung.
Total							1425000/-	

For this programme, a financial outlay of Rs. 14.25 lacs is earmarked.

2. Solar Photovoltaic Programme:

Under Solar Photovoltaic Programme, distribution of Solar Lantern, Solar Home Lighting System & Solar Street Lighting System at a subsidized rate is proposed for lighting and installation & commissioning of Solar Submersible Pumps is proposed for irrigation & drinking water purpose to people of the state. Priority will be given to the Villagers/Farmers.

Objectives of this programme are as follows:

- i. To promote the use of SPV system for lighting and various other applications.
- ii. To save fossil fuel such as diesel, kerosene, coal etc. for power generation.

The details are as given below:

(i) Solar Lantern (LED Based): Technical specification: (2.2 W LED, 5 Wp Module, 12V & 4.5 AH Battery and other electronics).

Unit Cost & subsidy: As per MNRE benchmark cost @ Rs. 400/-per Wp. Estimated cost will be Rs. 2000/- per unit of LED Based Solar Lantern. A subsidy of Rs. 1500/- per lantern will given by state and the balance cost Rs. 500/- per unit is to be paid by the beneficiary. However, the actual cost will be determined on the basis of lowest rate through open tender system. Any change in subsidy of the state share will be finally approved by JREDA Managing Committee.

Beneficiary & distribution mechanism: A total of 2000 nos. of LED based Solar Lantern is proposed to be distributed among the people of the state belonging to all categories through District Administration/Akshay Urja Shops. Priority will be

given to the Villagers. Beneficiary for obtaining the solar lantern will have to apply in prescribed format issued by JREDA with Identity Proof such as Voter ID, Adhar Card, Driving license etc. with beneficiary contribution in shape of Demand Draft. The application should be forwarded by Mukhiya, Panchayat Sewak, Ward Commissioner, other people representatives and govt. officers. The Mukhiya's will forward the application with document and demand draft to BDO's and BDO's will forward through District Administration to JREDA. JREDA will also facilitate online application for obtaining the LED Solar Lantern.

Implementing Agency: Selection of agency will be done through open tender two bid system (Technical & Price Bid). Eligible bidders will be MNRE approved Channel Partner/ MNRE approved Manufacturer/ MNRE approved PV System Integrator/A registered manufacturing company/Firm/ Corporation in India (Including MSME of Jharkhand) of at least one of the major sub systems namely SPV Cells/ Modules or Battery or PV System Electronics (Conforming to relevant National/ International Standards. The bidder shall furnish either relevant MNRE certificate or concerned Industry Department certificate clearly indicating that they are manufacturers of SPV Systems including SPV Cells/ Modules or Battery or PV System Electronics as applicable. Industrial policy and new procurement policy will be applicable.

During the financial year 2015-16, a total of 2000 nos. of LED Based Solar Lantern are to be distributed to the people for which a financial outlay of Rs. 30.00 lacs is earmarked.

The detail of programme is as following:

Ī	Estimated	Central	State	Beneficiary	Proposed	Proposed
	Cost	Share	Share	Share	qty.	Amount
	(in Rs.)	(in Rs.)	(in Rs.)	(in Rs.)		(in Rs.)
	2000/-		1500/-	500/-	2000	3000000/-
	Total					3000000/-

(ii) Solar Home Lighting System (SHLS-CFL Based): Technical specification: (2 x 9 W CFL, 37 Wp Module, 12V & 40 AH Lead Acid Battery and other electronics).

Unit Cost & subsidy: As per MNRE benchmark cost @ Rs. 250/- per Wp. Estimated cost will be Rs. 9250/- per unit of CFL Based Solar Home Lighting System. A subsidy of Rs. 7000/- per Home Light will given by state and the balance cost Rs. 2250/- per unit is to be paid by the beneficiary. However, the actual cost will be determined on the basis of lowest rate through open tender system. Any change in subsidy of the state share will be finally approved by JREDA Managing Committee.

Beneficiary & distribution mechanism: A total of 1000 nos. of CFL based Solar Home Lighting System is proposed to be installed in the Govt. Institutions such as Schools, Hospitals, Hostels, Offices, Community Halls and Public Institutions functioning for the common people such as hospitals, schools & individuals living in villages etc. through District Administration/Akshay Urja Shops/Govt. Offices.

Implementing Agency: Selection of agency will be done through open tender two bid system (Technical & Price Bid). Eligible bidders will be MNRE approved Channel Partner/ MNRE approved Manufacturer/ MNRE approved PV System Integrator/A registered manufacturing company/Firm/Corporation in India (Including

MSME of Jharkhand) of at least one of the major sub systems namely SPV Cells/ Modules or Battery or PV System Electronics (Conforming to relevant National/ International Standards. The bidder shall furnish either relevant MNRE certificate or concerned Industry Department certificate clearly indicating that they are manufacturers of SPV Systems including SPV Cells/ Modules or Battery or PV System Electronics as applicable. Industrial policy and new procurement policy will be applicable.

A total of 1000 Nos. of Solar Home Lighting Systems is to be supplied & installed in the state during the financial year 2015-16. A subsidy of Rs. 7000/- per SHLS is given by the state and the balance cost would constitute institutional share. For this, a financial outlay of Rs. 70.00 lacs is earmarked.

The detail of programme is as following:

Estimated Cost	Central	State	Institutional	Proposed	Proposed
(in Rs.)	Share	Share	/Beneficiary	qty.	Amount
	(in Rs.)	(in Rs.)	Share		(in Rs.)
		@ 75%	(in Rs.)		
9250/-		7000/-	2250/-	1000	7000000/-
Total					7000000/-

(iii) Solar Street Lighting System (SSLS-CFL Based): Technical specification: (1 x 11 W CFL, 74 Wp Module, 12V & 75 AH Lead Acid Battery and other electronics).

Unit Cost & subsidy: As per MNRE benchmark cost @ Rs. 250/-per Wp. Estimated cost will be Rs. 18500/- per unit of CFL Based Solar Street Lighting System. A subsidy of Rs. 14000/- per Street Light will given by state and the balance cost Rs. 4500/- per unit is to be paid by the beneficiary. However, the actual cost will be determined on the basis of lowest rate through open tender system. Any change in subsidy of the state share will be finally approved by JREDA Managing Committee.

Beneficiary & distribution mechanism: A total of 2500 nos. of CFL based Solar Street Lighting System is proposed to be installed in the Govt. Institutions such as Schools, Hospitals, Hostels, Offices, Community Halls and Public Institutions functioning for the common people such as hospitals, schools etc. through District Administration/Forest Department/Welfare Department / Jail / Other Govt. Offices.

Implementing Agency: Selection of agency will be done through open tender two bid system (Technical & Price Bid). Eligible bidders will be MNRE approved Channel Partner/ MNRE approved Manufacturer/ **MNRE** approved PV System Integrator/A registered manufacturing company/Firm/ Corporation in India (Including MSME of Jharkhand) of at least one of the major sub systems namely SPV Cells/ Modules or Battery or PV System Electronics (Conforming to relevant National/ International Standards. The bidder shall furnish either relevant MNRE certificate or concerned Industry Department certificate clearly indicating that they are manufacturers of SPV Systems including SPV Cells/ Modules or Battery or PV System Electronics as applicable. Industrial policy and new procurement policy will be applicable.

A subsidy of Rs. 14000/- per SSLS is given by the state and the balance cost would constitute institutional share. A total of 2500 Nos. of Solar Street Lighting Systems are to be supplied/installed in government/ semi government institutions/organizations of public utilities of the state during the financial year 2015-16. For this, an outlay of Rs. 350.00 lacs is earmarked

The detail of programme is as following:

	Estimated Cost	Central	State	Institutional/	Proposed	Proposed
	(in Rs.)	Share	Share	Beneficiary	qty.	Amount
		(in Rs.)	(in Rs.)	Share		(in Rs.)
				(in Rs.)		
ſ	18500/-		14000/-	4500/-	2500	35000000/-
	Total					35000000/-

(iv) Solar Pump Set: The Ministry of New and Renewable Energy (MNRE), Govt. of India has launched a scheme to promote solar pumping programme in large scale from financial year 2015-16. A Solar Photovoltaic (SPV) Water Pumping System consist of a PV array, A DC/AC surface mounted/ submersible/floating motor pump sets, electronics, cables, ON/OFF switch etc. PV array is mounted on a suitable structure, electronics would include MPPT, Inverter and controls/protection. MNRE will provide 30% of the project cost as central subsidy, State Govt. would provide 30% of the cost and remaining cost will be met by the beneficiary.

Estimated Cost: Estimated cost as per the MNRE benchmark cost.

Implementing Agency: Selection of agency will be done through open tender two bid system (Technical & Price Bid). Eligible bidders will be MNRE approved Channel Partner/ MNRE approved Manufacturer/ **MNRE** approved PV System Integrator/A registered manufacturing company/Firm/ Corporation in India (Including MSME of Jharkhand) of at least one of the major sub systems namely SPV Cells/ Modules or Battery or PV System Electronics (Conforming to relevant National/ International Standards. The bidder shall furnish either relevant MNRE certificate or concerned Industry Department certificate clearly indicating that they

manufacturers of SPV Systems including SPV Cells/ Modules or Battery or PV System Electronics as applicable. Industrial policy and new procurement policy will be applicable.

Monitoring: JREDA will be the Designated Agency for the implementation of Solar Pump Programme for irrigation purpose in the state. The agency will co-ordinate with all involved departments such as Agriculture/Horticulture Department, Irrigation Department, Forest Department etc. The State will constitute a Steering Committee under the Chairmanship of Additional Chief Secretary Rank for effective co-ordination among the various stakeholders and speedy implementation.

Beneficiary: Beneficiary for this scheme will be the Farmers in the defined Water Shed Areas of the State duly covered under the available scheme of irrigation. Outside the Water Shed also the Farmers interested for solar pumps for soil management, water resources, credit management agriculture would also be the beneficiary. Any govt. institutions requiring for the irrigation purpose would also be considered for the scheme. JREDA will promote this programme through wide publicity and also invite online application.

Duration of the scheme is two years from the date of sanction of MNRE. MNRE has sanctioned 1400 nos. of SPV power pumps under the Solar Pumping Programme for irrigation vide no. 32/13/2014-15/PVSE (Part-2), dt. 09.12.2014.

A total of 2210 H.P. of 1 hp, 2 hp & 5 hp capacities of Solar Pump Sets are to be supplied/installed in the state during the financial year 2015-16.

The detail of programme is as following:

Sl.	Capacity	Qty.		Estimated	Central	share	Beneficiar	y share	State	share
No	of			Cost	CFA					
	Pumps	No.	hp	(Rs. in Lacs)	Per unit	Total	Per unit	Total	(30%)	Total
	(hp)					CFA (in		amount	Per unit	proposed
						Lacs)		(in		amount
								Lacs)		(in Lacs)
1	1	300	300	1.90 x 300	43200/-	129.6	89800/-	269.40	57000/-	171.00
				=570.00						
2	2	800	1600	2.30 x 800	86400/-	691.2	74600/-	596.80	69000/-	552.00
				=1840.00						
3	5	300	1500	5.30 x 300=	162000/-	627.00	209000/-	468.0	159000/-	477.00
				1590.00						
	Total	1400	3400	4000.00		1447.8		1334.2		1200.00

Since the programme will be spread in two years from the date of sanction i.e. 9th December, 2014. Rs. 450.00 lacs out of the total state share of Rs. 1200.00 lacs is earmarked for FY 2014-15. For this programme, an outlay of Rs. 600.00 lacs is earmarked.

3. **Solar Thermal**:

Solar Hot Water System: By using solar hot water system, water can be heated from 60-80°C, which are useful for domestic uses, hospitals, hostels, schools, etc. The approx. installation cost of a Flat Plate Collector type solar hot water system of 100 liters capacity is Rs. 18000/-. A subsidy (state share) of Rs. 100/- per liters for FPC type solar hot water system is given by the state and the balance cost is to be borne by the beneficiary. The total cost of the system can be recovered in three years by saving from electricity.

Implementing Agency: Selection of agency will be done through open tender two bid system (Technical & Price Bid). Eligible bidders will be MNRE approved Channel Partner/ MNRE approved Manufacturer/ MNRE approved PV System Integrator/A registered manufacturing company/Firm/Corporation in India (Including MSME of Jharkhand) of at least one of the major sub systems namely SPV Cells/ Modules or Battery or PV System Electronics

(Conforming to relevant National/ International Standards. The bidder shall furnish either relevant MNRE certificate or concerned Industry Department certificate clearly indicating that they are manufacturers of SPV Systems including SPV Cells/ Modules or Battery or PV System Electronics as applicable. Industrial policy and new procurement policy will be applicable.

Beneficiary: Beneficiary for this scheme will be the individual of a household, govt. institutions, public institutions, commercial buildings of the state.

Unit Cost & subsidy: Cost per LPD is 180 as per MNRE benchmark cost. Estimated cost for 100 LPD will be Rs. 18000/-. A subsidy of Rs. 100/- per LPD will be given by state and the balance cost will be paid by the beneficiary. However, the actual cost will be determined on the basis of lowest rate through open tender system. Any change in subsidy of the state share will be finally approved by JREDA Managing Committee. JREDA will promote this programme through wide publicity and also invite online application. If any central financial assistance is made available to JREDA, then beneficiary share would be reduced accordingly.

In the financial year 2015-16, it is proposed to install 50000 litres capacity in the state, for which outlay of Rs. 100.00 lacs is earmarked.

The detail of programme is as following:

Estimate	Central	State	Beneficiary	Proposed	Proposed
d Cost	Share	Share	Share	qty.	Amount
(in Rs.)	(in Rs.)	(in Rs.)	(in Rs.)		(in Rs.)
180/-		100/-	80/-	50000	5000000/-
Total					5000000/-

4. **Survey & Publicity**:

Under this head, various programmes are held for promotion of renewable energy sources in the state, organizing research & development programmes, expenses over third party verification of various programmes undertaken by JREDA, survey, preparation of tender documents, evaluation of tender documents, preparation of DPRs, pre-dispatch inspection of solar equipments, annual report, booklet, leaflet, printing of letter head, survey form pumplet, folder, organizing of awareness camp & training programmes, advertisement of tender & general notice in newspapers, School level competition related to renewable energy, Exhibition Van, Wall writing, Hording, Bus Stop Shelter, Akashwani & Doordarshan & arranging of stalls in Trade Fair etc.

For this, an outlay of Rs. 100.00 lacs is earmarked for the financial year 2015-16.

5. **Establishment**

(i) Salaries of Employees & others expenses:

Under this head, salary payment, honorarium payment, arrear, D.A., T.A., other expenses etc. An outlay of Rs. 200.00 lacs is earmarked for the financial year 2015-16.

(ii) **Office expenses**:

Under this head, office expenses, maintenance of office internet, telephones, purchasing chairs & others etc. An outlay of Rs. 100.00 lacs is earmarked for the financial year 2015-16.

6. Supply & installation of Solar Power Packs in Block/Panchayat Offices for E-governance:

Supplied & installed Solar Power Packs in Panchayat & Block office is enabled with GPRS Systems and data card SIM was installed in all Solar power plants for integrated monitoring. Provision of annual

expenses for installed SIM in solar power plants to Service Provider and cost for Development & Operation of monitoring mechanism for satisfactory functioning of solar plants will be developed with help of JAPIT has bee proposed. For this, an outlay of Rs. 38.75 lacs is earmarked for the financial year 2015-16.

7. Grid Connected Rooftop Plants for Govt. Buildings, Individual Residence etc.:

MNRE is promoting the Grid Connected Rooftop Plants under JNNSM. A new programme on "Grid Connected Rooftop and Small Solar Power Plants" was launched in June, 2014. The individual project from 1kWp to 500 kWp capacity is considered under this programme. Also, under IPDS, provision for installing solar panels on Govt. buildings has been made.

There is a large potential available for generating solar power using unutilized space on rooftops and wastelands around buildings. Small quantities of power generated by each Govt. building can be used to partly fulfill the requirement of the building and surplus, if any, can be fed into the grid.

In grid interactive rooftop or small SPV system, the DC power generated from SPV panel is converted to AC power. They generate power during the day time which is utilized fully by powering captive loads and feeding excess power to the grid as long as grid is available.

Implementing Agency: Selection of agency will be done through open tender two bid system (Technical & Price Bid). Eligible bidders will be MNRE approved Channel Partner/ MNRE approved Manufacturer/ MNRE approved PV System Integrator/A registered manufacturing company/Firm/Corporation in India (Including

MSME of Jharkhand) of at least one of the major sub systems namely SPV Cells/ Modules or Battery or PV System Electronics (Conforming to relevant National/ International Standards. The bidder shall furnish either relevant MNRE certificate or concerned Industry Department certificate clearly indicating that they are manufacturers of SPV Systems including SPV Cells/ Modules or Battery or PV System Electronics as applicable. Industrial policy and new procurement policy will be applicable.

Unit Cost & subsidy: As per MNRE benchmark cost, the estimated cost is Rs. 170/-. per watt with battery bank for 6 hours. A subsidy of 30 % will be given by MNRE and the balance cost will be paid by the State Govt. However, the actual cost will be determined on the basis of lowest rate through open tender system. Any change in subsidy of the state share will be finally approved by JREDA Managing Committee.

The following buildings are proposed to be taken up during 2015-16 for the project:

Sl. No.	Building details	Capacity	Estimated	Central	State
		(kWp)	Cost	share	share
			(Rs. in	(Rs. in lakh	(Rs. in
			lakh)	@ 30%)	lakh)
1	Project Buildings	250	420.00	126.00	294.00
2	Nepal House Secretariat	100	190.00	57.00	133.00
3	Vidhan Sabha	100	190.00	57.00	133.00
4	C.M. House	100	190.00	57.00	133.00
5	Rajbhawan	100	190.00	57.00	133.00
6	A.T.I. Building	80	140.00	42.00	98.00
7	R.I.M.S.	250	420.00	126.00	294.00
8	Rinpass	50	100.00	30.00	70.00
9	Sadar Hospitals (03 districts)	330	570.00	171.00	399.00
10	Civil Court (03 Nos.)	330	570.00	171.00	399.00
11	Collectorate Buildings (03 Nos.)	330	570.00	171.00	399.00
12	Indira Gandhi Balika Vidyalaya	70	123.00	36.00	87.00
		2090	3673.00	1101.00	2572.00

Proposed estimated amount is based on the benchmark cost of MNRE, which includes the cost for 6 hours battery backup. However, actual capacity and estimated amount would depend on the DPR prepared by Consultant based on the actual requirement and technical specification proposed for the particular project. The above list of buildings and capacity of grid connected solar rooftop plants is tentative and shall change as per the DPR. In case there is saving in the amount for the above proposed building, other govt. buildings would be included in the scheme.

Implementation:-

- As per MNRE, grid connected solar rooftop power plant will be from 1kWp to 500 kWp capacity.
- For conducting the survey and preparation of DPR, empanelment of consultant would be done through open tender.
- Selection/empanelment of agency for the work of supply & installation of grid connected solar rooftop power plant on govt. buildings will be done through e-tendering process.

Under this programme, the proposed outlay would be Rs. 2572.00 lacs.

8. Installation of Off-Grid Solar Power Plants in Government/Individual Beneficiaries in the State :

Under this programme, supply & installation of Off-Grid Solar Power Plants of different capacities in Government/Institutions beneficiaries across the state of Jharkhand is to be proposed. For this, an outlay of Rs. 100.00 lacs is earmarked for the financial year 2015-16.

9. Distribution of LED Based Solar Study Lamp for School Students:

The energy requirement of people living in Jharkhand is mostly catered by conventional power. The electrical load demand is

everyday growing and there is always deficit of power especially during the peak hour demand. The frequency of the peak hour demand generally matches with the study hour of the Students. In many areas students are not able to do their home work and carry on their studies because of erratic supply of power during peak hours. LED based Solar Study Lamp would be the best option for such type of students.

Estimated cost: Unit cost of the LED based solar study lamp having following technical specifications is approximately Rs. 1000/- per unit based on the market rate.

Technical Specification: LED based Solar Study Lamps will have 1 Watt LED, Lithium Ion battery not less than 2.2 Ah and 2 Wp solar module. Average duty cycle will be 4 hours of a day and will have minimum of two days autonomy.

Implementing Agency: Selection of agency will be done through open tender two bid system (Technical & Price Bid). Eligible bidders will be MNRE approved Channel Partner/ MNRE approved Manufacturer/ MNRE Integrator/A approved PV System registered manufacturing company/Firm/ Corporation in India (Including MSME of Jharkhand) of at least one of the major sub systems namely SPV Cells/ Modules or Battery or PV System Electronics (Conforming to relevant National/ International Standards. The bidder shall furnish either relevant MNRE certificate or concerned Industry Department certificate clearly indicating that they are manufacturers of SPV Systems including SPV Cells/ Modules or Battery or Industrial policy and new PV System Electronics as applicable. procurement policy will be applicable.

Beneficiary & distribution mechanism: This scheme will target boys & girls students of Govt. Schools of Class 10th, all the students of

Kasturba Gandhi Balika Vidyalaya (203 numbers) and all the students studying in SC/ST Hostels under the Welfare Department, Govt. of Jharkhand.

Sl.	Particulars	Numbers of	Amount
No.		students	(Rs. in lac)
1	Numbers of students enrolled in Class 10 th	2,37,500	2375.00
2	Numbers of students enrolled Kasturba Gandhi Balika Vidyalaya	60,900	609.00
3	Numbers of students enrolled in SC/ST/OBC Hostels	21,600	216.00
	Total	3,20,000	3200.00

Distribution of LED based Solar Study Lamps would be done Districtwise through concerned District Administration and Officials of Education department & Welfare department, which are supplied by selected suppliers.

Implementation: This scheme would be implemented through etendering process and considering large number of quantity, a empanelment of agencies will be done.

The cost of distribution of LED based Solar Study Lamps would be 100% borne by Govt. of Jharkhand and for this programme, proposed financial outlay would be **Rs. 3200.00 lacs** in Financial Year 2015 – 16.

10. Establishment of MW Solar Parks:

The State shall promote development of solar park on non-productive Government land or any other land falling within the area of solar park. State Government will identify suitable non-productive land or any other land for the development of Solar Parks. While formulating the framework for the development of Solar Park, the Nodal Agency shall undertake public consultation and accordingly specify provisions. The Electricity Regulatory Commission shall develop suitable framework to

ensure successful development of Solar Parks in the State. The State Government, under this Policy, will help facilitate in building up the necessary infrastructure like power evacuation, water requirements and internal road etc. Solar Park will consists of various Zone viz. Solar Power Projects, Manufacturing Zones, R&D and training centres. The state will extend all facilities and fiscal incentives provided by central Govt. / National Solar Mission to the Manufacturers and Power Project Developers in Solar Park.

Ministry of New and Renewable Energy (MNRE), Government of India has been fixed the target for development of 20000 MW through Solar Power by the end of 2022, for this 500 MW or above solar parks is to be proposed to established in the state. State would be required to prepare DPR, Infrastructure and evacuation facility, land etc. for setting up of Megawatt Solar Parks. For this, an outlay of Rs. 100.00 lacs is earmarked for the financial year 2015-16.

11. Maintenance (CMC works) of supplied & installed of Solar Power Packs in Block/Panchayat HQs, Solar Street Lights & Solar Home Lights:

For maintenance (CMC works) of supplied & installed Solar Power Packs for promote the use of IT in Panchayat and block headquarters, supply & installed of Solar Street Lights & Solar Home Lights & others programmes. For this, an outlay of Rs. 25.00 lacs is earmarked for the financial year 2015-16.

12. **Hydel Project**:

A total of 68 potential sites have been identified for development of small hydroelectric projects in the state through PPP Mode. Detailed Project Report (DPR) for 09 sites are ready for development and

feasibility study & survey for the remaining sites are to be done in phase manner and accordingly consultancy charge for development of Small Hydro Plants through PPP Mode has been made. For this, a financial outlay of Rs. 500.00 lacs is earmarked for the financial year 2015-16.

13. Energy Conservation Programme etc.:

JREDA is nominated for State Designated Agency (SDA) under Energy Conservation Act. Implementation of Energy Conservation and Urja Bachat etc. programme by JREDA with the help and direction of Bureau of Energy Efficiency, Ministry of Power, Government of India. Under this programme, AgDSM, MuDSM, Energy Audit of Government Buildings, Publicity, installation of Star rating equipments based on Urja Bachat of Government/Non-Government Buildings are to proposed.

For the programme, a financial outlay of Rs. 200.00 lacs is earmarked for the financial year 2015-16.