



Government of Mizoram

**R F D**

(Results-Framework Document)  
for

Department of Power & Electricity

(2015-2016)

## Section 1: Vision, Mission, Objectives and Functions

### Vision

Availability of reliable 24x7 quality power at competitive rates for all.

### Mission

To deliver dependable, reliable and quality power supply and services at affordable and competitive price for every section of the society: To set standards of performance and to continuously improve the quality and reliability of services towards the consumers: To offer goods and services and find solutions for the major stakeholders across the entire state.

### Objectives

- 1 Transmission Capacity expansion for improvement in transmission and transformation
- 2 Increasing Generation and harnessing of power from non-conventional sources.
- 3 Distribution Capacity expansion to improve distribution system.
- 4 Reduction of AT&C losses
- 5 Energy Conservation through campaign/workshop and installation of energy efficient system.
- 6 Development of Human Resources by imparting skills within and outside the state

### Functions

- 1 Power & Electricity
- 2 Generation, Transmission and Distribution of Electric power
- 3 Non-conventional Energy.
- 4 All other matter relating to energy
- 5 Administration of Electricity Act 2003 and Energy Conservation Act 2001

## Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
[1] Transmission Capacity expansion for improvement in transmission and transformation	20.00	[1.1] Improvement of Transmission and Transformation	[1.1.1] Construction of 132kV Transmission line between Melriat and Lunglei	% of work done	4.00	50	40	30	20	10
			[1.1.2] Finalisation of DPR for Renovation & Upgradation of protection system to be funded from Power System Development Fund (PSDF)	Date	3.00	30/09/2015	31/10/2015	30/11/2015	31/12/2015	31/03/2016
			[1.1.3] Shifting of 132kv s/s Zuangtui	% of work completed	3.00	100	90	80	70	60
			[1.1.4] Construction of 132kV S/C line on DC tower from Kolasib to Aizawl (Melriat) with LILO of one circuit at 132kV SS, Zuangtui	% of work	1.50	100	95	90	85	83
			[1.1.5] Construction of 132kV D/C line from 132kV S/S Luangmual to 132kV S/S Sihmui	% of work	1.50	100	80	60	40	20
			[1.1.6] Construction of 132kV S/C line from Melriat S/S to Luangmual S/S	% of work	1.50	100	98	95	93	90

## Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value					
						Excellent	Very Good	Good	Fair	Poor	
						100%	90%	80%	70%	60%	
			including 132kV bay at 132kV S/S Luangmual								
			[1.1.7] Construction of additional 132kV bus bar at Sihhmui S/S for evacuation of power from 60 MW Tuirial HEP	% of work done	1.50	100	80	60	40	20	
			[1.1.8] Modernisation & Protection system in EHV Sub Stations	% of work completed	4.00	100	80	60	40	20	
[2] Increasing Generation and harnessing of power from non-conventional sources.	20.00	[2.1] Construction of Hydro Power Projects	[2.1.1] Construction of Kawlbem SHP	% of work done	5.00	50	40	30	20	10	
			[2.1.2] Construction of Tlawva (5MW) SHP	% of work completed	4.50	40	35	30	25	20	
			[2.1.3] Installation of 3rd unit (4MW) at Serlui B SHP	% of work	4.00	100	90	80	70	60	
			[2.1.4] Construction of Tuiching (100kW) and Tuiriza (100 kW) Micro Hydel Project - 2x100kW at Phullen and Hrianghmun	% of work	3.00	100	80	60	40	35	
		[2.2] Harnessing Energy from non conventional sources	[2.2.1] Installation & commissioning of Wind-Solar Hybrid System	Nos.	3.50	4	3	2	1	0	

## Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
[3] Distribution Capacity expansion to improve distribution system.	15.00	[3.1] Improvement of Distribution system	[3.1.1] Execution of Rural Electricity Distribution Backbone (REDB) work	% of work done	4.50	50	40	30	20	10
			[3.1.2] Construction of 33kV DC line from Mualpui S/S to Tlangnuam S/S	% of work done	1.50	100	98	97	96	95
			[3.1.3] Construction of 2.5MVA 33/11kV S/S with future prospects of 132kV S/S at Kawmzawl, Lunglei along with associated lines	% of work completed	2.00	100	80	60	40	20
			[3.1.4] Construction of 2.5MVA 33/11kV S/S at Buarpui & Saiphai with associated lines	% of work	4.00	65	50	40	30	20
			[3.1.5] Installation of new DT in Aizawl for reduction of Distribution losses	% of work done	1.50	100	80	60	40	20
			[3.1.6] Re-alignment of 11kV lines in rural areas	% of work done	1.50	100	80	60	40	20
[4] Reduction of AT&C losses	20.00	[4.1] Implementation of RAPDRP	[4.1.1] Part A of R-APDRP Project Go Live (8 towns)	No. of towns go live	4.00	8	7	6	5	4
			[4.1.2] Execution of Part B project	% of work	5.00	--	--	--	--	--

## Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
				done						
		[4.2] Detection of theft of power by consumers	[4.2.1] Nos. of case detected	Nos	3.00	60	55	50	45	40
		[4.3] Revision of tariff through JERC	[4.3.1] Submission of Tariff Petition to JERC	Date	2.00	30/11/2015	31/12/2015	31/01/2016	28/02/2016	31/03/2016
		[4.4] Installation of Energy meters	[4.4.1] Replacement of defective Meters	Nos	2.00	4000	3000	2000	1000	500
		[4.5] Improve revenue receipts from consumers	[4.5.1] Increase in Revenue over the Last Year's collection	Rs. (Crore)	4.00	8	6	4	2	1
[5] Energy Conservation through campaign/workshop and installation of energy efficient system.	10.00	[5.1] Energy Conservation Campaign	[5.1.1] Energy Conservation Awareness Campaign among School Children	No	4.00	15	10	9	8	7
			[5.1.2] Energy Conservation Awareness through Media-Print, TV, Cable	No	3.00	12	10	8	6	4
			[5.1.3] No. of Workshop/sensitization programs convened in every district	No	3.00	5	4	3	2	1
[6] Development of Human Resources by imparting skills within and outside the state	5.00	[6.1] Training of officials	[6.1.1] Training for Non-Engineers	No of Employees	1.50	50	45	40	35	30
			[6.1.2] Training for Engineers within	No of Engineer	1.50	10	8	6	4	2

## Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
			the state	rs						
			[6.1.3] Training for Engineers outside the state	No of Engineers	2.00	5	4	3	2	1
* Efficient functioning of the RFD System	3.00	Timely submission of Mid Term Achievement	On-time submission	Date	1.0	10/10/2015	17/10/2015	24/10/2015	30/10/2015	10/11/2015
		Timely submission of final corrected RFD of 2015-2016 through RFMS	On-time submission	Date	1.0	15/07/2015	21/07/2015	28/07/2015	04/08/2015	10/08/2015
		Timely submission of Results for 2015-2016	On-time submission	Date	1.0	02/05/2016	03/05/2016	04/05/2016	05/05/2016	07/05/2016
* Effective redressal of citizens' grievances	1.00	Timely disposal of citizens' grievances lodged through www.mipuiaw.nic.in	Citizens' grievances disposed off through www.mipuiaw.nic.in within 30 days	%	1.0	100	90	80	70	60
* Preparation of Citizen's Charter	2.00	Submission of Citizens' Charter as per the framework provided by RFMS	On-time submission	Date	2.0	11/01/2016	14/01/2016	17/01/2016	20/01/2016	25/01/2016
* Simplifying internal procedures for effective public service delivery	4.00	Timely formation of Core Committee for Simplification of Internal Procedures	On-time formation of the Committee	Date	1.0	10/05/2015	20/05/2015	30/05/2015	10/06/2015	15/06/2015
		Cumbersome internal procedures are simplified by the Department as per the recommendations of the Core Committee	Number of internal procedures simplified	No.	3.0	5	4	3	2	1

\* Mandatory Objective(s)

### Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 13/14	Actual Value for FY 14/15	Target Value for FY 15/16	Projected Value for FY 16/17	Projected Value for FY 17/18
[1] Transmission Capacity expansion for improvement in transmission and transformation	[1.1] Improvement of Transmission and Transformation	[1.1.1] Construction of 132kV Transmission line between Melriat and Lunglei	% of work done	--	--	50	100	--
		[1.1.2] Finalisation of DPR for Renovation & Upgradation of protection system to be funded from Power System Development Fund (PSDF)	Date	--	--	30/09/2015	--	--
		[1.1.3] Shifting of 132kv s/s Zuangtui	% of work completed	22	50	100	--	--
		[1.1.4] Construction of 132kV S/C line on DC tower from Kolasib to Aizawl (Melriat) with LILO of one circuit at 132kV SS, Zuangtui	% of work	0	7	100	100	--
		[1.1.5] Construction of 132kV D/C line from 132kV S/S Luangmual to 132kV S/S Sihhmui	% of work	0	10	100	100	--
		[1.1.6] Construction of 132kV S/C line from Melriat S/S to Luangmual S/S including 132kV bay at 132kV S/S Luangmual	% of work	0	16	100	100	--



### Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 13/14	Actual Value for FY 14/15	Target Value for FY 15/16	Projected Value for FY 16/17	Projected Value for FY 17/18
		[1.1.7] Construction of additional 132kV bus bar at Sihmui S/S for evacuation of power from 60 MW Tuirial HEP	% of work done	--	--	100	--	--
		[1.1.8] Modernisation & Protection system in EHV Sub Stations	% of work completed	--	--	100	--	--
[2] Increasing Generation and harnessing of power from non-conventional sources.	[2.1] Construction of Hydro Power Projects	[2.1.1] Construction of Kawlbem SHP	% of work done	10	30	50	100	--
		[2.1.2] Construction of Tlawva (5MW) SHP	% of work completed	10	16.93	40	100	--
		[2.1.3] Installation of 3rd unit (4MW) at Serlui B SHP	% of work	--	40	100	--	--
		[2.1.4] Construction of Tuiching (100kW) and Tuiriza (100 kW) Micro Hydel Project - 2x100kW at Phullen and Hriangmun	% of work	10	30	100	--	--
	[2.2] Harnessing Energy from non conventional sources	[2.2.1] Installation & commissioning of Wind-Solar Hybrid System	Nos.	--	--	4	--	--
[3] Distribution Capacity expansion to improve distribution system.	[3.1] Improvement of Distribution system	[3.1.1] Execution of Rural Electricity Distribution Backbone (REDB) work	% of work done	--	--	50	100	--

### Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 13/14	Actual Value for FY 14/15	Target Value for FY 15/16	Projected Value for FY 16/17	Projected Value for FY 17/18
		[3.1.2] Construction of 33kV DC line from Mualpui S/S to Tlangnuam S/S	% of work done	--	25	100	100	--
		[3.1.3] Construction of 2.5MVA 33/11kV S/S with future prospects of 132kV S/S at Kawmzawl, Lunglei along with associated lines	% of work completed	--	--	100	--	--
		[3.1.4] Construction of 2.5MVA 33/11kV S/S at Buarpui & Saiphai with associated lines	% of work	--	15	65	100	--
		[3.1.5] Installation of new DT in Aizawl for reduction of Distribution losses	% of work done	--	30	100	--	--
		[3.1.6] Re-alignment of 11kV lines in rural areas	% of work done	--	--	100	--	--
[4] Reduction of AT&C losses	[4.1] Implementation of RAPDRP	[4.1.1] Part A of R-APDRP Project Go Live (8 towns)	No. of towns go live	1	1	8	0	--
		[4.1.2] Execution of Part B project	% of work done	0	30	60	100	--
	[4.2] Detection of theft of power by consumers	[4.2.1] Nos. of case detected	Nos	209	--	500	--	--
	[4.3] Revision of tariff through JERC	[4.3.1] Submission of Tariff Petition to JERC	Date	30/11/2013	22/12/2014	30/11/2015	30/11/2016	--

### Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 13/14	Actual Value for FY 14/15	Target Value for FY 15/16	Projected Value for FY 16/17	Projected Value for FY 17/18
	[4.4] Installation of Energy meters	[4.4.1] Replacement of defective Meters	Nos	6646	--	5000	6000	--
	[4.5] Improve revenue receipts from consumers	[4.5.1] Increase in Revenue over the Last Year's collection	Rs. (Crore)	--	27.114	10	12	--
[5] Energy Conservation through campaign/workshop and installation of energy efficient system.	[5.1] Energy Conservation Campaign	[5.1.1] Energy Conservation Awareness Campaign among School Children	No	0	10	10	15	--
		[5.1.2] Energy Conservation Awareness through Media-Print, TV, Cable	No	7	10	15	20	--
		[5.1.3] No. of Workshop/sensitization programs convened in every district	No	0	3	5	--	--
[6] Development of Human Resources by imparting skills within and outside the state	[6.1] Training of officials	[6.1.1] Training for Non-Engineers	No of Employees	118	28	80	100	--
		[6.1.2] Training for Engineers within the state	No of Engineers	34	8	40	50	--
		[6.1.3] Training for Engineers outside the state	No of Engineers	12	4	10	112	--
* Efficient functioning of the RFD System	Timely submission of Mid Term Achievement	On-time submission	Date	--	--	17/10/2015	--	--

\* Mandatory Objective(s)

### Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 13/14	Actual Value for FY 14/15	Target Value for FY 15/16	Projected Value for FY 16/17	Projected Value for FY 17/18
	Timely submission of final corrected RFD of 2015-2016 through RFMS	On-time submission	Date	--	--	03/05/2015	--	--
	Timely submission of Results for 2015-2016	On-time submission	Date	--	--	03/05/2016	--	--
* Effective redressal of citizens' grievances	Timely disposal of citizens' grievances lodged through www.mipuiaw.nic.in	Citizens' grievances disposed off through www.mipuiaw.nic.in within 30 days	%	--	100	90	--	--
* Preparation of Citizen's Charter	Submission of Citizens' Charter as per the framework provided by RFMS	On-time submission	Date	--	--	10/07/2015	--	--
* Simplifying internal procedures for effective public service delivery	Timely formation of Core Committee for Simplification of Internal Procedures	On-time formation of the Committee	Date	--	--	20/05/2015	--	--
	Cumbersome internal procedures are simplified by the Department as per the recommendations of the Core Committee	Number of internal procedures simplified	No.	--	--	4	--	--

\* Mandatory Objective(s)

## Section 4: Acronym

Sl.No	Acronym	Description
1	Capex	Capital Expenditure
2	cKms	Circuit Kilometers (Transmission line length)
3	DoNER	Ministry of the Development of North Eastern Region, Govt. of India
4	GoI	Government of India
5	GoM	Government of Mizoram
6	JERC	Joint Electricity Regulatory Commission for Manipur and Mizoram

## Section 4: Acronym

Sl.No	Acronym	Description
7	kV	Kilo Volt = 1000 Volt
8	kWp	Kilo Watt peak
9	MNRE	Ministry of New & Renewable Energy, Govt. of India
10	NEEPCO	North Eastern Electric Power Corporation Ltd.
11	NHPC	National Hydroelectric Power Corporation
12	NLCPR	Non-Lapseable Central Pool of Resources

## Section 4: Acronym

Sl.No	Acronym	Description
13	NTPC	National Thermal Power Corporation
14	PFC	Power Finance Corporation Ltd.
15	PGCIL	Power Grid Corporation of India Ltd.
16	R-APDRP	Restructured Accelerated Power Development and Reform Programme
17	REC	Rural Electrification Corporation
18	SHP	Small Hydro Project

## Section 4: Acronym

Sl.No	Acronym	Description
19	SPV	Solar Photo Voltaic
20	SWHS	Solar Water Heating System



## Section 4: Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
1	[1.1.1] Construction of 132kV Transmission line between Melriat and Lunglei	It is proposed to construct 132kV line from Aizawl (Melriat) to Lunglei	Power Supply to southern part of Mizoram is given by 132 kV single circuit line via Bukpui S/s and the proposed work will strengthen the transmission line	% of work completed	The work is under execution on turnkey basis
2	[1.1.2] Finalisation of DPR for Renovation & Upgradation of protection system to be funded from Power System Development Fund (PSDF)	Mizoram is one of the constituent State of North Eastern Region. The state caters two load demand varying from about 50MW - 110MW. 132kV is the highest transmission system voltage in the State. A major grid disturbance on 30.7.2012 and 31.7.2012 resulted in almost total collapse of Northern, Eastern and North Eastern regional grids respectively. An enquiry committee was constituted by the Ministry of Power to look into the causes and to suggest remedial measures. Protection audit was carried out and its report discussed in OCC/PCC meetings. Based on the findings, and as directed by Ministry of Power, the work is to be taken up for rectification of defeciancies in each Sub-Stations ang generating stations in the State.	The work is to be taken up to plug loop holes in the power systems involving Sub-Station gadgets, auxilliaries and the control and relay devices. It involves replacement of old equipments (CBs, Surge arrestors, CTs, PTs, CVTs) and control cables. Improvement of DC system, Earthing system. It also aims at providing fire fighting system and modern diagnostic tools.	% of work completed	DPR prepared and being finalised

## Section 4: Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
3	[1.1.3] Shifting of 132kv s/s Zuangtui	Shifting is required as the exiting Sub-Station lies in the land slide area	It is proposed to shift in a safer place near the existing location	% of work completed	Works under construction and in progress
4	[1.1.4] Construction of 132kV S/C line on DC tower from Kolasib to Aizawl (Melriat) with LILO of one circuit at 132kV SS, Zuangtui	To improve Transmission line from grid, 132kV line must be strengthened	132kV line to feed new S/S at Melriat and Zuangtui	% of work completed	Works under construction and in progress
5	[1.1.5] Construction of 132kV D/C line from 132kV S/S Luangmual to 132kV S/S Sihhmui	132kV S/S constructed at Sihhmui requires power line from the nearest Sub-Station i.e Luangmual		% work progress	Works under construction and in progress
6	[1.1.6] Construction of 132kV S/C line from Melriat S/S to Luangmual S/S including 132kV bay at 132kV S/S Luangmual	Additional Transmission line for Melriat Sub-Station	132kV Sub-Station constructed at Melriat requires power line from the nearest Sub-Station i.e Luangmua	% work progress	Works under construction and in progress
7	[1.1.7] Construction of additional 132kV bus bar at Sihhmui S/S for evacuation of power from 60 MW Tuirial HEP	Evacuation line for 60MW Tuirial HEP	132kV line is required to be constructed to make power generated from Tuirial HEP available at Sihhmui Sub-Station	% work progress	Work is not yet started

## Section 4: Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
8	[1.1.8] Modernisation & Protection system in EHV Sub Stations	Due to increasing knowledge and advancement in technology, the present protection system as well as equipments installed in Power Sub-Station of Mizoram have become outdated and are in need of replacement	Most of relays in 132kV Sub-Stations are of electromechanical type. This old relays together with panel wiring required to be replaced by new ones using digital technology. This will increase sensitivity of the protection system.	% work done	Work under execution
9	[2.1.1] Construction of Kawlberm SHP	In order to increase local generation, Kawlberm SHP of 3.5MW capacity is under construction near Ngopa village	The project is categorised as run-of-the river/Small Hydel Project. It is to be constructed on river Leiva	% of work completed	Work under construction and in progress
10	[2.1.2] Construction of Tlawva (5MW) SHP	In order to increase local generation, Tlawva SHP is taken up by the Department	Tlawva SHP is located near S. Khawbung village	% of work completed	Works under construction and in progress
11	[2.1.3] Installation of 3rd unit (4MW) at Serlui B SHP	In order to increase local generation, Serlui 'B' SHP was taken up by the Department. 2 units of 4MW each have been commissioned, the 3rd unit needs to be commissioned to complete the project.	The 3rd unit of Serlui 'B' SHP consisting of 4MW TG set is being installed and commissioned	% of work completed	Works under construction and in progress

## Section 4: Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
12	[2.1.4] Construction of Tuiching (100kW) and Tuiriza (100 kW) Micro Hydrel Project - 2x100kW at Phullen and Hriangmun	In order to increase local generation, the Department has taken up construction of Tuiriza Micro Hydrel Project near Phullen village in Aizawl district and Tuiching Micro Hydrel Project near Hriangmun village in Champhai district.		% of work completed	Works under construction and in progress
13	[2.1.4] Construction of Tuiching (100kW) and Tuiriza (100 kW) Micro Hydrel Project - 2x100kW at Phullen and Hriangmun	In order to increase local generation, the Department has taken up construction of Tuiriza Micro Hydrel Project near Phullen village in Aizawl district and Tuiching Micro Hydrel Project near Hriangmun village in Champhai district.		% of work completed	Works under construction and in progress
14	[2.2.1] Installation & commissioning of Wind-Solar Hybrid System	In order to increase local generation, installation of Wind Solar Hybrid System is taken up by ZEDA in close co-ordination with Department.	Work of installing Wind Solar Hybrid for energy generation is taken up in 4 different locations in the state	No.	Works under construction and in progress
15	[3.1.1] Execution of Rural Electricity Distribution Backbone (REDB) work	The project for improvement of Distribution System through REDB is approved and sanctioned from REC.	The project is under execution on turnkey basis	% of work completed	Works under construction and in progress

## Section 4: Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
16	[3.1.1] Execution of Rural Electricity Distribution Backbone (REDB) work	The project for improvement of Distribution System through REDB is approved and sanctioned from REC.	The project is under execution on turnkey basis	% of work completed	Works under construction and in progress
17	[3.1.2] Construction of 33kV DC line from Mualpui S/S to Tlangnuam S/S	Inter-linking line of 33kV S/S for Distribution improvement	For Distribution improvement	% of work done	Works under construction and in progress
18	[3.1.3] Construction of 2.5MVA 33/11kV S/S with future prospects of 132kV S/S at Kawmzawl, Lunglei along with associated lines	Lunglei, the 2nd capital of Mizoram has one 132kV Sub-Station at Khawiva. The Sub-Station has 3nos. of 11kV outgoing feeders which are not sufficient for power distribution to Lunglei town. It is therefore, proposed to construct 33/11kV Sub-Station at Kawmzawl. This will eliminate excessively long 11kV lines which at present emanate from Khawiva Sub-Station.	33/11kV Sub-Station at Kawmzawl will be fed at 33kV from Khawiva Sub-Station. Presently, the Sub-Station will be of 1x2.5MVA capacity. The Sub-Station also has holds future prospects of further augmentation to 132kV level.	% of work done	Works under construction and in progress
19	[3.1.4] Construction of 2.5MVA 33/11kV S/S at Buarpui & Saiphai with associated lines	The work is meant to improve Distribution System and for Loss reduction	These Sub Stations are meant for improvement of sub-transmission system particularly in Serchhip and Kolasib districts	% of work done	work under progress

## Section 4: Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
20	[3.1.5] Installation of new DT in Aizawl for reduction of Distribution losses	In order to reduce loss and improve distribution system	Increase in DT Sub-Stations improve distribution systems	% of work completed	Works under construction and in progress
21	[3.1.6] Re-alignment of 11kV lines in rural areas	The existing 11kV distribution lines in the State are mostly aged and in service for more than 15 years. This results in frequent power interruptions due to line fault. Moreover, some lines are not safe due to poor ground clearance. Further, due to re-alignment of roads, maintenance of lines have become difficult as they are aligned far from the new highway roads. It is therefore, needed to re-align a number of 11kV lines and also to improve the remaining lines in order to deliver regular and reliable power supply to consumers.		% of work completed	Works under construction and in progress
22	[4.1.1] Part A of R-APDRP Project Go Live (8 towns)	9 Towns are covered under R-APDRP project for improvement of distribution system and reduction of AT&C loss. Pilot town (Kolasib) has already gone live. Work is in progress in the remaining 8 towns.	Part 'A' covers IT implementation in electrical power system	No. of towns go live	Works under progress

## Section 4: Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
23	[4.1.2] Execution of Part B project	R-APDRP Part 'B' project also covers 9 towns viz. Aizawl, Lunglei, Kolasib, Saiha, Lawngtlai, Serchhip, Saitual, Khawzawl and Champhai	Part 'B' project is infrastructure set-up to reduced AT&C loss	% of work done	Works under construction and in progress
24	[4.2.1] Nos. of case detected	Detection of electrical energy theft by consumer is very important in AT&C loss reduction	Huge amount of power theft is committed by direct tapping from LT line or bypassing the energy meter.	Nos	May be detected by inspection and checking of lines and consumer meters
25	[4.3.1] Submission of Tariff Petition to JERC	AT&C loss can be reduced by improveing the revenue receipt. Tariff petition is to be filed to JERC for fixation of tariff		Date	Tariff is to be filed before 30th November every year
26	[4.4.1] Replacement of defective Meters	Accurate billing may be achieved by replacing every defective meters	Un-metered billing should be reduced in order to reduced AT&C loss	Nos	To be replaced as per requirement
27	[4.5.1] Increase in Revenue over the Last Year's collection	Increase in revenue from the consumer may result in AT&C loss reduction		Rs Crore	Revenue collected from consumers

## Section 4: Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
28	[5.1.1] Energy Conservation Awareness Campaign among School Children	Awareness campaign to school children		Nos.	Awareness should be given to everyone
29	[5.1.2] Energy Conservation Awareness through Media-Print, TV, Cable	Awareness to public through media	Awareness campaign through electronic and print media	Nos.	Conservation of energy is also a means for generation of energy
30	[5.1.3] No. of Workshop/sensitization programs convened in every district	District level no. of workshop for energy conservation	In order to increase awareness regarding the needs of energy conservation, district level programme may be organised	Nos.	Conservation of energy is also a means for generation of energy
31	[6.1.1] Training for Non-Engineers	Training for non-engineer employees for greater efficiency at work place and to impart modern office practises. Includes training for Lineman, Electrician and Electrical Workers		No of Employees	Includes refreshers course, skill development etc.
32	[6.1.1] Training for Non-Engineers	Training for non-engineer employees for greater efficiency at work place and to impart modern office practises. Includes training for Lineman, Electrician and Electrical Workers		No of Employees	Includes refreshers course, skill development etc.



## Section 4: Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
33	[6.1.2] Training for Engineers within the state	Training for skill development	Training in a specific subject also included	No of Engineers	Includes refreshers course, skill development etc.
34	[6.1.3] Training for Engineers outside the state	Training facilities within the state is not sufficient to cope with new technology, so, training outside the state is very much important.	Training to impart skills from training centres outside the state	No of Engineers	Includes refreshers course, skill development etc.

## Section 5 : Specific Performance Requirements from other Departments

Location Type	State	Organisation Type	Organisation Name	Relevant Success Indicator	What is your requirement from this organisation	Justification for this requirement	Please quantify your requirement from this Organisation	What happens if your requirement is not met.
State Government	Mizoram	Departments	Department of Planning & Programme Implementation	<p>[1.1.1] Construction of 132kV Transmission line between Melriat and Lunglei</p> <p>[1.1.2] Finalisation of DPR for Renovation &amp; Upgradation of protection system to be funded from Power System Development Fund (PSDF)</p> <p>[1.1.3] Shifting of 132kv s/s Zuangtui</p> <p>[1.1.4] Construction of 132kV S/C line on DC tower from Kolasib to Aizawl (Melriat) with LILO of one circuit at 132kV SS, Zuangtui</p> <p>[1.1.5] Construction of 132kV D/C line from 132kV S/S Luangmual to 132kV S/S Sihhmui</p> <p>[1.1.6] Construction of 132kV S/C line from Melriat S/S to Luangmual S/S including 132kV bay</p>	<p>a) Submission of UC and QPR</p> <p>b) Sanction of fund</p>			Fund for the listed programme will not be released by the funding agency. Work cannot be excuted without sanction of fund

## Section 5 : Specific Performance Requirements from other Departments

Location Type	State	Organisation Type	Organisation Name	Relevant Success Indicator	What is your requirement from this organisation	Justification for this requirement	Please quantify your requirement from this Organisation	What happens if your requirement is not met.
				at 132kV S/S Luangmual [1.1.7] Construction of additional 132kV bus bar at Sihmui S/S for evacuation of power from 60 MW Tuirial HEP [1.1.8] Modernisation & Protection system in EHV Sub Stations [2.1.1] Construction of Kawlbem SHP [2.1.2] Construction of Tlawva (5MW) SHP [2.1.3] Installation of 3rd unit (4MW) at Serlui B SHP [2.1.4] Construction of Tuiching (100kW) and Tuiriza (100 kW) Micro Hydel Project - 2x100kW at Phullen and Hriangmun [2.2.1] Installation & commissioning of Wind-Solar Hybrid System [3.1.2] Construction of 33kV DC line from Mualpui S/S to				

## Section 5 : Specific Performance Requirements from other Departments

Location Type	State	Organisation Type	Organisation Name	Relevant Success Indicator	What is your requirement from this organisation	Justification for this requirement	Please quantify your requirement from this Organisation	What happens if your requirement is not met.
				Tlangnuam S/S  [3.1.3] Construction of 2.5MVA 33/11kV S/S with future prospects of 132kV S/S at Kawmzawl, Lunglei along with associated lines  [3.1.4] Construction of 2.5MVA 33/11kV S/S at Buarpui & Saiphai with associated lines  [3.1.5] Installation of new DT in Aizawl for reduction of Distribution losses  [3.1.6] Re-alignment of 11kV lines in rural areas				
			Department of Finance	[3.1.1] Execution of Rural Electricity Distribution Backbone (REDB) work  [4.1.1] Part A of R-APDRP Project Go Live (8 towns)  [4.1.2] Execution of Part B project	Financial sanction and allocation of fund			Progress will be affected

## Section 5 : Specific Performance Requirements from other Departments

Location Type	State	Organisation Type	Organisation Name	Relevant Success Indicator	What is your requirement from this organisation	Justification for this requirement	Please quantify your requirement from this Organisation	What happens if your requirement is not met.
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## Section 6: Outcome/Impact of Department/Ministry

Outcome/Impact of Department/Ministry	Jointly responsible for influencing this outcome / impact with the following department (s) / ministry(ies)	Success Indicator	Unit	FY 13/14	FY 14/15	FY 15/16	FY 16/17	FY 17/18
1 Reduction of AT&C loss	AEGCL, APGCL, APDCL, PGIL, REC, PFC, Govt. of Mizoram (Finance Department, Planning Department)	Part A of R-APDRP Project Go Live (8 towns)	No.	1	0	8		
		Execution of R-APDRP Part B Project	% of works		30	60	100	
		Replacement of defective Meters	No.	6646		5000	6000	
2 Improvement in quality of power	Central Sector (NEEPCO, NTPC, PGCIL, NHPC, BHEL, MNRE, Ministry of Power, Ministry of Finance, State Department (Planning & Finance))	Construction Kawlbem SHP	% of works			50	100	
		Construction of Tlawva (5MW) SHP	% of works		16.93	40	100	
		Installation of 3rd unit (4MW) at Serlui 'B' SHP	% of works		80	100		
		Installation and Commissioning of Wind Solar Hybrid	No.			4		