



RVPN
An ISO 9001:2000
Certified Company

RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED.

[Corporate Identity Number (CIN):U40109RJ2000SGC016485]

(Regd. Office: Vidyut Bhawan, Jan Path, Jyoti Nagar, Jaipur - 302 005)

OFFICE OF THE SUPERINTENDING ENGINEER (PROJECT & PLANNING)

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No. RVPN/SE(P&P)/XEN (Proj.)/AE-IV/ F. 283 /D **1850** Jaipur, Dt. **17-3-2017**

The Chief Engineer (T&C),
The Chief Engineer (Civil),
The Chief Engineer (Procurement/Contract),
R.V.P.N. Limited, Jaipur/Jodhpur /Ajmer.

Sub: Revised Annual Plan 2016-17 and Annual Plan 2017-18 (Proposed).

Ref: This office letter no. 3397 dated 17.03.2016.

Kindly refer this office letter no. 3397 dated 17.03.2016 vide which Annual Pan 2016-17 was circulated having outlay ceiling of Rs. 2400 crore. The Plan size for FY 2016-17 was revised by Govt. of Rajasthan to Rs. 2136.96 crore. The proposed Annual Plan for FY 2017-18 is of Rs. 2700.00 crore including all the schemes approved by BoD/WTB, after last Plan circulated vide this office letter no. 3397 dated 17.03.2016.

In view of above, a copy of the revised Annual Pan for FY 2016-17 and FY 2017-18 (Proposed) along with its enclosure (Annexure-A), is enclosed herewith for your kind reference and further necessary action. The execution of various schemes is to be done as per plan targets and plan provisions indicated in the enclosed Annexure- A of the Annual Plan. **It is to be noted that the earlier Annual Plan circulated vide this office letter no. 3397 dated 17.03.2016 have now been replaced by this new Annual Plan.**

Encl: As above.

(Kamal Jain)

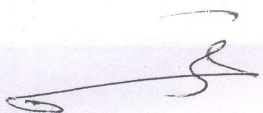
Chief Engineer (PP&D)

Copy along with enclosures submitted / forwarded to the following for intimation and n/a. *an sh*

1. The Chief Engineer (MPT&S / NPP-Reforms / LD/ IT), RVPN, Jaipur.
2. The Chief Controller of Accounts, RVPN, Jaipur.
3. The Chief Engineer (Rajasthan Urja Vikas Nigam Ltd.), Shed No. 5/5, Vidyut Bhawan, Janpath, Jaipur, Rajasthan.
4. The Addl. Chief Engineer (Communication), RVPN, Jaipur.
5. The Addl. Chief Engineer (MPT&S), RVPN, Ajmer / Jodhpur.
6. The Addl. Chief Engineer (Civil), RVPN, Jaipur / Ajmer / Jodhpur.
7. The Superintending Engineer (MIS), RVPN, Jaipur for immediate publication on RVPN website.

8. The Superintending Engineer (Procurement-I / Procurement-II / Contract- I / Contract- II/ Design/ Automation / QC-Insp. / HRD/ NPP-Reforms / SO-LD, RVPN, Jaipur.
9. The Superintending Engineer Communication, RVPN, Jaipur/ Ajmer / Jodhpur.
10. The Superintending Engineer (Protection), RVPN, Jaipur / Kota / Ajmer / Udaipur / Jodhpur / Bikaner.
11. The Superintending Engineer (T&C), RVPN, Ajmer/ Alwar/ Babai/ Barmer/ Bhadla/ Bharatpur/ Bikaner/ Bhilwara / Chittorgarh/ Hanumangarh / Hindaun /Jaipur city/Jaipur Rural / Jaisalmer / Jodhpur /Kankani / Kota / Merta / Ratangarh / Ramgarh / Swaimadhopur / Sikar / Sirohi / Udaipur
12. The Superintending Engineer (765KV GSS), RVPN, Anta (Baran)/ Phagi (Jaipur).
13. The Superintending Engineer (Plan/ PPM), JVVNL/ AVVNL/ Jd.VVNL, Jaipur./ Ajmer/ Jodhpur.
14. The CAO (Accounts- Budget-Insp. / P&F-Cont.), RVPN, Jaipur.
15. The COIA, RVPN, Jaipur.
16. The RCAO, RVPN, Jaipur / Ajmer / Jodhpur
17. The Sr. Accounts Officer (B&R / Accounts / LD),RVPN, Jaipur.
18. The Executive Engineer- II (P&P), RVPN, Jaipur.
19. TA to Hon'ble CMD, RVPN, Jaipur.
20. The PS to Director (Tech./Operations), RVPN, Jaipur.
21. The PA to Chief Engineer (PP&D), RVPN, Jaipur.

Encl: As above.


Chief Engineer (PP&D)

Rajasthan Rajya Vidyut Parasaran Nigam Limited

Annual Plan of RVPN 2016-17 (Revised) & 2017-18 (Proposed)

(a) Financial targets 2016-17 (Revised) & 2017-18 (Proposed)

S. No.	Head	(Rs. In crores)	
		Plan Outlay 2016-17 (Revised)	Plan Outlay 2017-18 (Proposed)
1.	Generation (Shared generating projects)	20.00	20.00
2	Transmission Works	2116.96	2680.00
	Total	2136.96	2700.00

(b) Physical Targets 2015-16 & 2016-17 (Proposed)

S. No	Particulars	Unit	Target 2016-17	Proposed target 2017-18 (tentative)
1	765 kV Lines	ckMs	-	-
2	765 kV S/S	MVA	-	-
		Nos.	-	-
3	400 kV Lines	ckMs	840	1160
4	400 kV S/S	MVA	2130	3630
		Nos.	2	3
5	220 kV Lines	ckMs	668	628
6	220 kV S/S	MVA	1020	1440
		Nos.	8	8
7	132 kV Lines	ckMs	551	329
8	132 kV S/S	MVA	400	550
		Nos.	16	22
9	Augmentation 400/220/132kV	MVA	1500	1500
10	Capacitor Bank	MVAR	300	300

Transmission - Details of Plan Provisions & Physical Targets for Annual Plan 2016-17 (Revised) & 2017-18 (Proposed)												Annexure-A
											Rs. In lacs	
S.No.	Name of the Work/Project	Category	Line Length (Ckt. kM)	Capacity (in MVA)	Estimated cost	Working Target / Dt. of Comm.	Annual Plan 2016-17 (Revised)		Annual Plan 2017-18 (Proposed)			
							Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
								Revised			Revised	
							Ckt Km.	MVA/Nos.	Ckt Km.	MVA/Nos.		
I	765kV Schemes											
A	On-Going Schemes											
	Composite Power Evacuation System {Chhabra Super Critical TPS (2x660MW) & Kalisindh TPS (2x600 MW)}											
1	765/400 kV, 2x1500 MVA GSS at Phagi(Jaipur South) alongwith 2 sets of 765kV, 3x80 MVAR (single phase) Line Reactors and 400kV, 1x125 MVAR Bus Reactor at Phagi (Jaipur South)	ES		2x1500	83285.06	4.1.15/ 8.1.15	1500	-	-	-	-	
2	400/765 kV, 2x1500 MVA GSS at Anta(Baran) Pooling Station alongwith 2 sets of 765kV, 3x80 MVAR (single phase) Line Reactors.	ES		2x1500	50463.53	5.1.15/ 9.1.15	2200	-	-	-	-	
	Evacuation system for Kawai Super Critical TPS (2x660MW)											
3	Additional 1x1500 MVA, 765/400 kV transformer (3rd transformer) at 765/400 kV pooling station Anta (Baran)	ES		1x1500	16161.12	17.09.16	Incl. in I-A.2	-	1500	-	-	
	New Start 2016-17											
	New transmission system for evacuation of generation from new solar and wind power plants in Western & South Eastern Rajasthan. (Total scheme cost = 3049.86 Cr)											
4	3 X 1500 MVA 765/400 kV Substation at Korna Distt.: Barmer											
	(i) 765/ 400 kV, 3 x 1500 MVA substation at Korna Distt.- Barmer alongwith 1x 330 MVAR, 765 kV Bus Reactor, 1x125 MVAR, 400 kV Bus Reactor and 2x 240 MVAR, 765kV switchable line Reactors on 765 kV D/C Korna- Ajmer (PG) line	ES		3x1500	60516.8	2020-21	100	-	-	12500	-	
5	2 nos. 765 kV bays at 765 kV GSS Ajmer (PG)	ES										
	(i) 2 nos. 765 kV feeder bays at 765 kV GSS Ajmer (PG) alongwith 2x 240 MVAR line reactors on 765 kV D/C Ajmer- Korna line	ES			11050.34	2020-21	50	-	-	100	-	
6	765 kV TRANSMISSION LINES:	ES										
	(i) 765 kV D/C Korna- Ajmer (PG) line (Hexa Zebra conductor)	ES	420		100902.92	2020-21	50	-	-	20000	-	
	I. Total (765kV)						3900	0	1500	32600	0	
	765 kV - Working							0	1500		0	
	Annual Plan target							0	0		0	
II	400kV SCHEMES											
A	On-Going Schemes											
	Composite Power Evacuation System {Chhabra Super Critical TPS (2x660MW) & Kalisindh TPS (2x600 MW)}											
1	400/220 kV , 2x315 MVA GSS at Ajmer (1x315 MVA X-mer comm.)	ES		2x315	12334.01	18.1.16	200		315	100		
2	Terminal 400 kV Bays at existing 400 kV Substation at Heerapura	ES			996.09							
3	400 kV D/C (Twin Moose) Phagi (Jaipur 765 kV)-Ajmer Line	ES	213		11603.74	2016-17	1000	213		1000		
4	400 kV D/C Phagi (Jaipur) - Heerapura line	ES	104		3716.19	2.11.16	200	104		-		
5	400 kV D/C (Quad Moose) Chhabra SCTPS - Anta(Baran) Pooling Station Line [Construction of 400 kV D/C Quad Moose line from location No-3 of 400 kV D/C Chhabra TPS- Anta line to the Gantry of Super Critical Chhabra TPS (Approx.- 02 km) and balance connection work of 400kV Twin Moose Chhabra TPS- Bhilwara line at Bay No. -414.] (Revised) Line (178.75ckM) charged on 10.4.2015 from 765/400KV GSS Anta side and on 22.4.16 from chhabra side (2.9 ckm)	ES	183		25558.67	10.4.15/ 22.4.16	100	3		-		
	Power Evacuation of Banswara Super Critical TPS (IPP Unit-1&2) (2X660MW)											
6	400/220 kV, 2X315 MVA GSS at Chittorgarh alongwith 400kV, 1x80 MVAR Bus Reactor, and 2x50MVAR Line Reactors at Chittorgarh end of 400kV D/C Banswara TPS-Chittorgarh line. (1x315 MVA X-mer comm. on 6.10.2016)	ES	-	2x315	13834.05	6.10.2016	1000		630	200		
7	Terminal 400 kV Bays at existing 400kV Substation Bhilwara	ES	-		2440.86	2016-17						
8	400/220 kV , 2X315 MVA GSS at Jodhpur (New) alongwith 400kV, 1x80 MVAR Bus Reactor and 2x50MVAR Line Reactors at Jodhpur end of 400kV D/C Udaipur -Jodhpur (New) line. (Under normal development)	ES	-	2x315	14790.96	2018-19	1200	-	-	5000		
	400kV Interconnecting Lines (Banswara Super Critical TPS Evacuation) :											
9	400 kV D/C Chittorgarh-Bhilwara (Twin Moose) Line (Under normal development)	ES	99		4644.14	2016-17	700	99		200		
10	LILO of 400kV Jodhpur -Merta line at 400 kV GSS Jodhpur(New)	ES	99		3716.19	23.6.16	200	99		0		
11	400 kV D/C Bhilwara-Aimer (Twin Moose) Line	ES	320		13923.6	2016-17	2000	300		1000		

S.No.	Name of the Work/Project	Category	Line Length (Ckt. km)	Capacity (in MVA)	Estimated cost	Working Target / Dt. of Comm.	Annual Plan 2016-17 (Revised)			Annual Plan 2017-18 (Proposed)		
							Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
								Revised			Revised	
								Ckt Km.	MVA/Nos.		Ckt Km.	MVA/Nos.
	Power Evacuation Scheme of Suratgarh Super Critical TPS (Unit 7&8) (2x660MW)											
12	400/220 Kv, 2x315 MVA GSS at Babai (Jhunjhunu) alongwith 400kV, 1x80 MVAR Bus Reactor and 2x80MVAR Line Reactors at Babai end of 400kV D/C Suratgarh TPS-Babai (Jhunjhunu) line.	ES	-	2x315	14388.31	2017-18	5300			2400		630
13	Terminal 400 kV Bays at existing 400 kV Substation Bikaner (with 400kV, 1x50 MVAR Shunt Line Reactor at Bikaner end of 400kV S/C Bikaner-Merta line.)	ES	-		2760.19	24.11.15						
14	Terminal 400 kV Bay at existing 400 kV Substation Mertacity with 400kV, 1x50 MVAR Shunt Line Reactor at Merta end of 400kV S/C Bikaner-Merta line.	ES	-		1387.99	24.11.15						
	400kV Interconnecting Lines (Suratgarh Super Critical TPS Evacuation) :											
15	400 kV S/C Bikaner- Merta (Twin Moose) Line	ES	172		11899.74	24.11.15	100			-		
16	400 kV D/C Suratgarh TPS- Babai (Jhunjhunu)(Quad Moose) Line	ES	480		43576.58	2017-18	9000			5000	480	
	Evacuation system for Kawai Super Critical TPS (2x660MW)											
17	3 nos. 400 kV bays at 765/400 kV Anta(Baran) Pooling Station	ES			Incl. in I.A.3	17.9.16	Incl. in I.A.3			-		
	Transmission System for New Solar and Wind Power Plants in Jaisalmer, Barmer & Jodhpur Districts											
18	(i) 400/220 kV, 3 X 500 MVA Pooling Sub-Station GSS at Ramgarh (Jaisalmer) alongwith 400kV, 1x125 MVAR, 400kV Shunt Reactor (Bus type) and 2x50 MVAR Shunt Reactor (line type) for 400kV D/C Ramgarh-Bhadla line (ADB TR-1)	ES	-	3x500	31527.71	2017-18	11800			3700		1500
	(ii) 220/132kV, 3x160 MVA with 132/33kV, 2x40/50 MVA (RVPN scope) alongwith 4 nos. 220kV feeder bays. (RVPN scope) (220/132 Kv, 1x160 MVA Transformer comm. on 8.5.15)			3x160, 2x40/50		2016-17	100			100		
19	(i) 400/220 kV, 3 X 500 MVA Pooling Sub-Station GSS at Bhadla (Jodhpur) alongwith 400kV, 1x125 MVAR Shunt Reactor (Bus type) and 4x50 MVAR, 400kV Shunt Reactors (Line type) for Bhadla ends of 400kV D/C Bhadla-Bikaner line, 400kV LILO Jodhpur-Merta at Bhadla line and 400kV D/C Ramgarh-Bhadla line. (ADB TR-1)	ES	-	3x500	36234.37	2016-17/ 2017-18	18900			4700		1500
	(ii) 220/132kV, 3x160 MVA with 132/33kV, 2x40/50 MVA (RVPN scope) alongwith 6 nos. 220kV feeder bays.. (RVPN scope) (220/132 Kv, 1x160 MVA Transformer comm. On 9.8.14)			3x160, 2x40/50		2017-18	500			500		
20	(i) Augmentation of 400kV GSS Akal by installation of 400/220 kV, 1 X500 MVA Transformer (RVPN Scop) (ii) alongwith 400kV, 1x125 MVAR Bus Reactor and 400kV, 2x50 MVAR Shunt Reactor (line type) for proposed 400kV Akal-Jodhpur (New) line. (ADB)	ES	-	1x500	8832.48	(i) Transformer comm. on 5.2.15	800			100		
21	Augmentation at 400kV GSS Barmer		-									
	(i) 1x125 MVAR, 400kV Shunt Reactor (Bus type) at 400kV GSS Barmer	ES			3177.51	2016-17	1200			500		
	(ii) 400kV bays for 400kV D/C Barmer-Bhinmal (PG) line	ES				2016-17						
22	Augmentation at 400kV GSS Bikaner (ADB)											
	(i) 1x125 MVAR, 400kV Bus Reactor at 400kV GSS Bikaner GSS	ES			4968.21	2016-17	1000			100		
	(ii) 400kV Bays for 400kV D/C Bhadla-Bikaner line and 400kV D/C Bikaner-Sikar (PGCIL) line at Bikaner end of the lines	ES				2016-17						
	(iii) 2 Nos. 220kV feeder bays alongwith 220kV D/C linking transmission line for charging 400kV Bhadla- Bikaner line on 220kV	ES			616.15	2016-17						
23	Augmentation of 400kV GSS Jodhpur (New)											
	(i) 2x50 MVAR, 400kV Shunt Reactor (line type) at 400kV GSS Jodhpur (New) for 400kV D/C Akal-Jodhpur(New) line	ES	-		3701.39	2016-17	100			200		
	(ii) 400kV bays at Jodhpur (New) for LILO of one ckt. of 400kV D/C Raj West LTPS-Jodhpur line.	ES	-			2016-17						
	400kV Interconnecting Lines (New Solar & Wind Plants) :											
24	400 kV D/C Ramgarh-Bhadla line (Twin Moose) (Revised)	ES	320		15887.78	2017-18	4000			1900	320	
25	400 kV D/C Bhadla-Bikaner line (Quad Moose)	ES	379		42589.27	2017-18	4800			1500	360	
26	LILO of one circuit of 400kV D/C Raj West-Jodhpur line at 400kV GSS Jodhpur (New) (Twin Moose)	ES	103		4968.34	7.4.16	100			-		
27	400 kV D/C Ramgarh(Jaisalmer)-Akal (Jaisalmer) line (Twin Moose) (ADB TR-1)	ES	200		9931.72	2016-17 / 2017-18	3500	200		2000		
28	400 kV D/C line from 400/220kV Pooling Station Bhadla to LILO point at 400kV S/C Jodhpur-Merta line (Twin Moose) (ADB TR-1) (Revised)	ES	390		19362.14	2016-17/ 2017-18	8722	390		2600		
29	400 kV D/C Barmer-Bhinmal (PGCIL) line (Twin Moose) (KfW)	ES	280		13902.43	2018-19	1000	-	-	4000		
30	400kV D/C Akal-Jodhpur (New) line (Quad Moose) (Line conductor is in the scope of ADB)	ES	480		56784.04	2017-18	10600	-	-	14370	480	
31	Inter- connect RVPN's 765/400 kV Anta GSS to PGCIL's 400/220 kV Kota GSS											
	(i) LILO of 2 nd circuit of 400 kV D/C Chhabra TPS-Dahra section at 765/400 kV Anta GSS	ES	1		92.65	2016-17	1500	1		500		
	(ii) 400kV bay equipments work at 765/400kV Anta GSS	ES			1811.54	2016-17						
	(iii) 400 kV S/C line extension from 765/400 kV Anta GSS to PGCIL's 400/220 kV Kota GSS	ES	45		2686.80	2016-17		45				

S.No.	Name of the Work/Project	Category	Line Length (Ckt. kM)	Capacity (in MVA)	Estimated cost	Working Target / Dt. of Comm.	Annual Plan 2016-17 (Revised)			Annual Plan 2017-18 (Proposed)		
							Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
								Revised			Revised	
								Ckt Km.	MVA/Nos.		Ckt Km.	MVA/Nos.
	PSDF funded schemes											
32	(i) 400 kV, 1x 125 MVAR Bus Reactor alongwith 400 kV Bay at 400 kV GSS Hindaun	SS			1172.94	2016-17	1100			3200		
	(ii) 400 kV, 1x 125 MVAR Bus Reactor at 400 kV GSS Merta City (in place of existing 400 kV, 1x 50 MVAR Bus Reactor by its removal and shifting to 400 kV GSS Bhilwara)	SS			829.84	2016-17						
	(iii) 400 kV, 1x 50 MVAR Bus Reactor alongwith 400 kV Bay at 400 kV GSS Bhilwara (Reactor to be shifted from 400 kV GSS Merta City)	SS			393.35	2016-17						
	(iv) Scheme of Renovation and Up-gradation of all RVPN substations of 220kV and 400kV to rectify protection related deficiencies (PSDF granted schemes).				15953	2017-18						
	Supplementary Transmission System for Power Evacuation Scheme of Solar Power Projects in Jaisalmer, Barmer, Jodhpur and Bikaner Districts (KfW funded schemes)											
33	400/220 kV, 2 X 500 MVA GSS at Jaisalmer-2 alongwith 1x125 MVAR , 400kV Bus Type Reactor	ES		2 X 500	19379.76	2018-19	4950	-	-	13300		
34	400 kV D/C Jaisalmer-2 -Barmer line	ES	260		13498.12	2018-19		-	-	6700		
35	400 kV S/C Akal(1)- Jaisalmer-2 line	ES	50		3518.61	2018-19		-	-			
36	400kV Terminal Bay Equipment at 400/220kV GSS Barmer (for termination of 400 kV D/C Jaisalmer 2 - Barmer line at Barmer end)	ES			3619.21	2018-19		-	-	1800		
37	400kV Terminal Bay Equipment at 400/220kV GSS Akal 1 (for termination of 400 kV S/C Akal-1 - Jaisalmer 2 line at Akal-1 end)	ES			1820.11	2018-19		-	-	800		
	New start 2016-17											
	New transmission system for evacuation of generation from new solar and wind power plants in Western & South Eastern Rajasthan.											
39	LILO of one circuit of 400 kV D/C Raj West LTPS- Jodhpur (Mandore) Line at 765 kV GSS Korna [Twin Moose]	ES	20		1545.25	2020-21	50	-	-	200		
40	LILO of both circuits of 400 kV D/C Akal - Jodhpur (New) Lines at 765 kV GSS Korna (2x 2kM D/C= 4 kM D/C) [Quad Moose]	ES	8		1079.52	2020-21	50	-	-	200		
41	400 kV D/C Korna - Pokaran line [Quad Moose]	ES	230		30895.05	2020-21	50	-	-	2000		
42	400 kV D/C Korna - Jaisalmer-II line [Quad Moose]	ES	270		36267.22	2020-21	50	-	-	2000		
43	400/220 kV, 2X 500 MVA Substation at Pokaran (Distt.- Jaisalmer)(Upgradation of 220 kV Substation)	ES										
	400/220 kV, 2X 500 MVA Substation at Pokaran (Upgradation of 220 kV Substation) alongwith 400 kV -1x125 MVAR Bus Reactor, 400 kV- 2x 50 MVAR switchable line reactors, 220 kV- 25 MVAR Bus Reactor and 10 nos.- 220 kV Feeders for Power Developers	ES		2X500	17793.8	2020-21	200	-	-	3400		
44	2 nos. 400 kV Bays with 2x 50 MVAR line Reactors at 400 kV GSS Jaisalmer-II alongwith 10 nos. 220 kV feeder bays for Power Developers	ES			4711.18	2020-21	50	-	-	100		
45	Augmentation at existing/ approved 400/220 kV GSS	ES										
	(i) 400 kV GSS Akal (2x500, 2x315MVA)	ES		2x500, 2x315	3912.7	2020-21	50	-	-	1000		
	(ii) 400 kV GSS Jaisalmer-2 (2x500MVA)	ES		2x500	4904.45	2020-21	50	-	-	1000		
	II. Total (400 kV)						96222	1454	945	87370	1640	3630
	Target 400 kV - WORKING							1454	945/1		1640	3630/3
	Annual Plan target							840	2130/2		1160	3630/3
III	220kV SCHEMES											
	Normal development works											
1	Jaipur City EHV network strengthening scheme-1											
	(i) Up-gradation of existing 132 kV (S/C & D/C Sections) Line to 220 kV D/C Line Between 220 kV Heerapura to 220 kV Nallah Power House	SS	10		854.81	Target to be finalised	50			50		

S.No.	Name of the Work/Project	Category	Line Length (Ckt. km)	Capacity (in MVA)	Estimated cost	Working Target / Dt. of Comm.	Annual Plan 2016-17 (Revised)			Annual Plan 2017-18 (Proposed)		
							Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
								Revised			Revised	
								Ckt Km.	MVA/Nos.		Ckt Km.	MVA/Nos.
2	JAIPUR CITY EHV NETWORK STRENGTHENING SCHEME-III [JENSS-III] (i) Up-gradation of existing 132 kV S/C Line Sanganer-Chaksu Line to 220 kV D/C Line [for future connectivity to 400 kV Jaipur South (PG) (approx. 34km)] 20 km line on 220 kV D/C narrow base towers and balance 14 km on 220 kV D/C conventional towers. Line work completed	SS	66		2321.22	3.11.15	100			-		
	Normal development works											
	Transmission System for New Solar and Wind Power Plants in Jaisalmer, Barmer & Jodhpur District:	ES										
3	(i) 220/132kV, 2x160 , 2x40/50 MVA GSS at Kanasar (Distt. Jodhpur) (1x160MVA x-mer comm)	ES		2x160 , 2x50	6450.30	30.6.16	3500		320	200		
	(ii) 220kV D/C Bhadla - Kanasar line	ES	60		955.14			50				
	Power Evacuation of Banswara Super Critical TPS (IPP Unit-1&2) (2X660MW)											
4	220kV Interconnecting Lines at Chhitorgarh :											
	(i) 220 kV D/C from 400kV Chittorgarh to 220kV GSS Sawa	ES	53		2043.68	21.10.16	100			50		
	(ii) LILO of 220kV S/C Chittorgarh - Debari line at 400kV GSS Chittorgarh	ES	3			24.7.13						
	(iii) 2 No 220kV bays at 220kV GSS Sawa	ES				21.10.16						
5	220kV Interconnecting Lines at 400kV GSS Jodhpur (New) :											
	(i) 220 kV LILO of existing 220 kV GSS Jodhpur (220kV GSS) -Pali line at 400kV Jodhpur (New)	ES	10		2043.68	5.8.16	300	10		100		
	(ii) 220 kV D/C Jodhpur (New) - Jhalamand (U/C 220 Kv GSS)	ES	40			2016-17		40				
	(iii) 220 kV D/C Jodhpur (New) - Barli (U/C 220 Kv GSS)	ES	92			2016-17		92				
	Power Evacuation System of Suratgarh Super Critical TPS											
6	220 kV Interconnections at 400/ 220 kV GSS Babai(Jhunjhunu)											
	(i) LILO of existing 220 kV S/C Khetri-Heerapura line at 400kV GSS Babai (Jhunjhunu)	ES	6		98.85	2016-17	10	6		-		
7	220 kV Revised Interconnections											
	(i) Extensiopn of 220 kV S/C VKIA- Kukas LILO line up to 220kV GSS Manoharpur	ES	81		2052.12	2016-17	1200	81		100		
	(ii) 2 No. bays at 220kV GSS Manoharpur.	ES										
	JODHPUR CITY EHV NETWORK STRENGTHENING SCHEME-I [JDENSS-I]											
8	(i) 220 kV GSS at Barli (Distt. Jodhpur)	SS		2x160 , 2x50	5098.42	30.3.16	500			200		
	(ii) LILO of 220kV Jodhpur (400kV GSS)-Jodhpur (220kV GSS) interconnector-II at Barli	SS	2		102.15	30.3.16						
9	(i) 220 kV GSS at Jhalamand (Up-gradation) (Distt. Jodhpur)	SS,LC		2x100 , 2x50	4351.64	2017-18	2000			2000		100
	(ii) LILO of 220kV Jodhpur (400kV GSS)-Jodhpur (220kV GSS) interconnector-I at Jhalamand (1 st ckt comm. on 27.10.2016)	SS	2		35.52	2016-17/ 2017-18		1			1	
	Normal development works											
10	220 kV interconnections at 400/220 kV GSS at Neemrana(PG)	LR,SS										
	(i) 220 kV D/C line from PGCIL's 400/220 kV Neemrana (PG) to Behror (220 kV GSS) Line charged on 132kV on 17.6.15.	LR,SS	54		945.79	2016-17	50	54		-		
	(ii) 2 No bays at Behror	LR,SS				2016-17						
11	220 kV interconnections at 400/220 kV GSS at Kotputli (PG)	LR,SS										
	(i) LILO of one circuit of approved 220 kV D/C Kotputli-Manoharpur line at PGCIL's 400/220 kV Kotputli(PG)	LR,SS	12		246.35	9.4.15	50			-		
	(ii) 220 kV D/C line from PGCIL's 400/220 kV Kotputli(PG) to Bansur .	LR,SS	82		945.79	13.5.16		82				
	(iii) 2 No bays at Bansur	LR,SS				13.5.16						

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							Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
								Revised			Revised	
								Ckt Km.	MVA/Nos.		Ckt Km.	MVA/Nos.
	Supplementary Transmission System for Power Evacuation Scheme of Solar Power Projects in Jaisalmer, Barmer, Jodhpur and Bikaner Districts											
	RVPN scope schemes											
13	220 KV D/C Badisid-Aau (220 KV GSS) line	ES	118		2327.91	13.4.16	500	118		-		
14	L.ILO of both circuits of 220kV D/C Ramgarh GTPS- Dechu line at 400kV Ramgarh . Line completed	ES	1		641.81	2016-17	50			-		
	KfW funded schemes											
15	(i) 220/132 KV, 1x160 MVA and 132/33kV, 1x20/25 MVA GSS at Chatrail (Distt. Jaisalmer)	ES		1 X 160	4741.94	2017-18	50			2600	160	
	(ii) 2 Nos. 220kV bays at 220kV GSS Ramgarh (400kV GSS)	ES			224.14	2017-18						
	(iii) 220 KV D/C Chatrail-Ramgarh (U/C 400 KV GSS) line (RVPN)	ES	90		2793.49	2016-17		90				
16	(i) 220/132 KV, 1x160 MVA and 132/33kV, 1x20/25 MVA GSS at PS 1(New location) / Bajju (Bikampur) (Bikaner Distt.):	ES		1 X 160	4921.26	2017-18	50			2800		
	(ii) 2 Nos. 220kV bays at 400/220kV GSS Bhadla	ES			224.14	2017-18						
	(iii) 220 KV D/C PS_1 / Bajju -Bhadla (U/C 400 KV GSS) line	ES	90		2095.12	2017-18					90	
17	(i) 220/132 KV, 1x160 MVA and 132/33kV, 1x20/25 MVA GSS at Pokran (New loc.)(Jaisalmer Distt.):	ES		1 X 160	5133.01	2017-18	50			2700	160	
	(ii) L.ILO of both circuits of U/C 220 KV D/C Ramgarh GTPP – Dechu line at Pokaran	ES	20		465.58	2017-18					20	
18	(i) 220/132 KV, 1x160 MVA and 132/33kV, 1x20/25 MVA GSS at Kolayat (New loc.)(Bikaner Distt.):	ES		1 X 160	4921.26	2017-18	50			3100	160	
	(ii) 2 Nos. 220kV bays at 220kV GSS Gajner	ES			224.14	2017-18						
	(iii) 220 KV D/C Gajner (U/C 220 KV GSS)-Kolayat line	ES	124		2886.6	2017-18					124	
18	(i) 220/132kV, 2x160 MVA, 132/33 kV, 2x40/50 MVA GSS Undoo	ES		2x160 , 2x40/50	6416.67	2017-18	50			5000	160	
	(ii) 220 kV D/C interconnection line from 220 kV GSS Undoo to approved 220 kV GSS Pokaran	ES	140		3814	2017-18					140	
	(iii) 2 nos., 220 kV Extension bays at 220 kV GSS Pokaran	ES			221.72	2017-18						
	ADB loan schemes											
19	Optical Fibre Cable System for 220kV & 132kV Schemes already approved under Main Transmission System for New Solar & Wind Power Plants & Smart Grid Applications.	ES										
	(i) 220kV Transmission Lines already approved under Main Transmission System for Solar & Wind Power Plants (Total Route length 140kM)	ES			902.54	2017-18	120			500		
	(ii) Software Development for Integration/Innovation, Smart Grid Applications etc.	ES			128.93	2017-18						
	Normal development works											
20	(i) 220/132kV, 1x160 MVA GSS at Sayla (Distt. Jalore)	LR,LC		1x160,	3522.28	4.10.15	200			-		
	(ii) 1 No. 220kV extension bay at 220kV GSS Jalore	LR,LC			92.14	4.10.15						
	(iii) 220 kV D/C Bhinmal(400 kV GSS-PG)-Sayla (proposed 220 kV GSS) line	LR,LC	79		1744.99	30.6.16		79				
	(iv) 220 kV S/C Jalore -Sayla(proposed 220 kV GSS) line	LR,LC	54		1129.29	4.10.15						
21	(i) 220/132kV, 1x160 MVA GSS at Vatika (Distt. Jaipur)	SS,LC,LR		1x160, 1x50	4641.44	25.9.15	200			50		
	(ii) 220 kV D/C Jaipur (South-PG) - Vatika line.	SS,LC,LR	56		1036.91	1.2.2017		56				
	(iii) L.ILO of 220kV S/C KTPS- Sanganer line at proposed 220kV Vatika.	SS,LC,LR	11		276.51	24.09.15						
22	(i) L.ILO of one ckt. Of under construction 220kV D/C Ramgarh GTPS - Dechu line at 220kV GSS Amarsagar.	SS	34		926.48	21.2.17	200	34		50		
	(ii) 2 No. bays at 220kV GSS Amarsagar.	SS										

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							Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
								Revised			Revised	
								Ckt Km.	MVA/Nos.		Ckt Km.	MVA/Nos.
	Composite Power Evacuation System [Chhabra Super Critical TPS(2x660MW) and Kalisindh TPS (2x600 MW)]	ES	11		408.5	2016-17	100	11		50		
23	LILO 220kV Ajmer-Kishangarh Line at 400kV Ajmer GSS. Line completed											
	Normal development works											
24	(i) 220 kV S/C Sirohi- Pindwara line	SS	25		736.38	2016-17	300	25		200		
	(ii) 1 no.bays at 220kV GSS Sirohi	SS										
	(iii) 1 no.bays at 220kV GSS Pindwara	SS										
25	(i) 220 GSS at Kuchera (New location) (Distt. Nagaur)	SS,LC		1x160	3145.95	30.12.15	200			-		
	(ii) LILO of 220 kV Nagaur - Merta line at proposed 220 kV GSS Kuchera.	SS	17		400.56	30.12.15						
26	(i) 220/132kV GSS at Mandalgarh(New) (Distt. Bhilwara)	LR,SS		1x100, 1x25	3105.93	15.9.16	1600		100	200		
	(ii) LILO of 220kV Kota (PG) -Bhilwara line at proposed 220 kV GSS Mandalgarh.	LR,SS	40		601.93	13.4.16		40				
27	(i) 220/132kV GSS at Chonkarwada (Distt. Bharatpur)	LR,SS		1x160, 1x25	3697.31	15.2.16	300			-		
	(ii) 220 kV D/C Hindaun (400kV GSS)-Chonkarwada line	LR,SS	72		1886.79	30.11.15						
	(iii) LILO of 220kV S/C Mandawar-Nadbai-Bharatpur line at 220kV Chonkarwada.	LR,SS	5		105.00	15.7.15						
	(iv) 2 Nos. 220kV bays at 400kV GSS Hindaun	LR,SS			181.16	15.7.15						
	(v) 2 No. 132kV bays at GSS Bhusawar	LR,SS				15.7.15						
	(vi) 2 No. 132kV bays at GSS Mahuwa	LR,SS				15.7.15						
28	(i) 220/132kV GSS at Behror (Distt. Alwar)	LR,SS		1x160, 1x25	4251.75	12.12.15	200			-		
	(ii) LILO of one circuit of 220 kV D/C Neemrana-Kotputli line at proposed 220kV GSS Behror	LR,SS	31		344.85	5.4.15						
29	(i) 220/132kV GSS at Bansur (Distt. Alwar)	LR,SS		1x160, 1x25	3041.24	21.4.16	800		160	100		
	(ii) LILO of 220 kV S/C Alwar-Kotputli line at proposed 220 kV GSS at Bansur	LR,SS	2		70.73	16.11.15						
30	(i) 220/132kV GSS at Amberi (Distt. Udaipur)	LR,SS		1X160, 1x25	4180.77	28.2.17	1000		160	600		
	(ii) LILO of 220 kV S/C Kankroli(PG)-Debari line at 220 kV GSS Amberi.	LR,SS	30			28.02.17		30				
31	(i) 220/132kV GSS at Danta Ramgarh (Distt. Sikar)	LR,SS		100	2199.65	30.3.16	1200			400		
	(ii) 1 Nos bay at 220kV GSS Renwal	LR,SS			90.58	30.3.16						
	(iii) 1 Nos bay at 220kV GSS Dhod	LR,SS			90.58	2016-17						
	(iv) 220 kV S/C Renwal-Danta Ramgarh line	LR,SS	33		564.06	30.3.16						
	(v) 220 kV S/C Dhod -Danta Ramgarh line	LR,SS	31		705.07	2016-17		31				
	Power Evacuation System for Proposed Wind Project in Banswara and Pratapgarh area.											
32	(i) 220/132kV,1x100MVA GSS at Pratapgarh (Up-gradation)	LR,SS		100	2635.20	2016-17	2500		100	500		
	(ii) 2 Nos bays at 220kV GSS Chittorgarh	LR,SS				2016-17						
	(iii) 2 Nos bays at 220kV GSS Nimbahera	LR,SS				2016-17						
	(iv) 220 kV D/C Pratapgarh-Chittorgarh (400 kV GSS) line with one circuit via 220 kV GSS Nimbahera	LR,SS	240		4111.82	2016-17		240				
	Normal Development Works											
33	(i) 220/132kV, 2x160 MVA GSS at NPH Jodhpur (Up-gradation)	LR,SS		2x160	3213.46	2017-18	2000			500		160
	(ii) 220 kV D/C 1000 SQ. MM XLPE Cable between Jodhpur(220 kV GSS) & proposed 220 kV GSS NPH	LR,SS	12		7110.06	2017-18	500			2500	12	
	(iii) 2 Nos. 220kV bays at 220kV GSS Jodhpur				227.22	2017-18						

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							Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
								Revised			Revised	
								Ckt Km.	MVA/Nos.		Ckt Km.	MVA/Nos.
34	(i) 220/132kV, 1x160 MVA GSS at Jethana (Distt. Ajmer)	LR,LC		1x160	4264.77	18.3.16	700			100		
	(ii) 2 Nos. 220kV bays at 400/220kV GSS Ajmer	LR,LC			184.28	2016-17						
	(iii) 1 No. 132kV extension bay at 132kV GSS Saradhana	LR,LC			60.72	2016-17						
	(iv) LILO of 220 kV S/C Ras-Merta line at proposed 220 kV GSS Jethana	LR,LC	39		699.34	5.2.14						
	(v) 220kV D/C Ajmer (400 kV GSS)-Jethana (proposed 220 kV GSS) line	LR,LC	120		719.45	2016-17		120				
35	(i) 220/132kV, 1x100 MVA GSS at Goner (Distt. Jaipur)	SS,LC,LR		1x100, 1x50	4890.26	9.11.16	1700		100	200		
	(ii) LILO of one circuit of proposed 220kV D/C Jaipur (South) - Chaksu line at proposed 220kV GSS Goner.	SS,LC,LR	56		1209.73	22.10.16		56				
36	(i) 220/132kV, 1X160 MVA &132/33kV,1X20/25 MVA GSS at Niwana (Distt. Jaipur)	SS,LC,LR		1x160, 1x20/25	3363.80	29.3.16	800			-		
	(ii) LILO 220kV S/C Heerapura- Babai line at proposed 220kV gss Niwana	SS,LC,LR	1		25.90	29.3.16						
37	(i) 220/132kV, 1x160MVA GSS at Bherunda (Distt. Nagaur)	SS,LC,LR		1x160	2477.41	2017-18	1500			2500		160
	(ii) 220 kV D/C , Ajmer (400kV) - Bherunda line	SS,LC,LR	80		1894.78	2017-18					80	
38	(i) 220/132 kV, 1x160 MVA GSS at Bhawanimandi (New Location) with 132/33 kV, 20/25 MVA capacity Transformer	SS,LC,LR		1x160, 1x20/25	3534.38	7.3.17	2500		160	1000		
	(ii) 220 kV S/C Kalisindh- Bhawanimandi line (R)	SS,LC,LR	35		945.71	2016-17		35				
	(iii) 220 kV S/C Modak- Bhawanimandi line (R)	SS,LC,LR	48		1296.15	7.3.17		48				
	New Start 2016-17											
	New transmission system for evacuation of generation from new solar and wind power plants in Western & South Eastern Rajasthan.	ES										
46	220/132 kV, 2x160 MVA & 132/33 kV, 2 x 40/50 MVA GSS Sheo (Distt.- Barmer) (New Location) alongwith 25 MVAR, 220 kV Bus Reactor (ADB)	ES										
	(i) 220/132 kV, 2x160 MVA & 132/33 kV, 2x 40/50 MVA GSS at Sheo (Barmer) (new loc.) alongwith, 220 kV- 1x25 MVAR Bus Reactor , 2 nos- 220 kV, 6 nos. - 132 kV & 6 nos. - 33 kV bays for power developers	ES		2x160 , 2x 40/50	7462.65	2017-18	500			2000		160
	(ii) 2 nos. 220 kV extension bays at 220 kV GSS Undoo	ES			187.6	2017-18					20	
	(iii) 220 kV D/C line from proposed 220 kV GSS Sheo to 220 kV GSS Undoo	ES	100		3070.68	2017-18	200			800	100	
	(iv) LILO of 220 kV S/C Akal- Barmer line at proposed 220 kV GSS Sheo	ES	50		1536.61	2017-18	200			800	50	
47	220/132 kV, 2x160 MVA & 132/33 kV, 2 x 40/50 MVA GSS Salamgarh/ Ghatol (Distt.- Banswara) (New Location)	ES										
	(i) 220/132 kV, 2x160 MVA & 132/33 kV, 2x 40/50 MVA GSS at Salamgarh/ Ghatol alongwith 220 kV- 1x25 MVAR Bus Reactor (2 nos- 220 kV, 6 nos. - 132 kV & 6 nos. - 33 kV bays for power developers)	ES		2x160 , 2x 40/50	7285.24	2017-18	100			2000		160
	(ii) 2 nos. 132 kV extension bays at 132 kV GSS Dalot	ES			119.47	2017-18	5			20		
	(iii) 220 kV bays at 220 kV GSS Pratapgarh	ES			187.6	2017-18	5			20		
	(iv) 220 kV D/C Salamagrh/ Ghatol - Pratapgarh line	ES	100		3070.68	2017-18	20			800	100	
	(v) LILO of 220 kV S/C Banswara- Aspur line at 220 kV GSS Salamgarh/ Ghatol	ES	150		3070.68	2017-18	10			400	150	
48	New 220 kV Line (new solar and wind power plants in Western & South Eastern Rajasthan.) (ADB)	ES										
	(i) 220 kV D/C Baithwasia- Khinvsar line	ES	130		4095.78	2018-19	20			800		
	(ii) 2 nos. 220 kV extension bays at 220 kV GSS Baithwasia	ES			187.6	2018-19	5			20		
	(iii) 2 nos. 220 kV extension bays at 220 kV GSS Khinvsar	ES			187.6	2018-19	5			20		

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							Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
								Revised			Revised	
								Ckt Km.	MVA/Nos.		Ckt Km.	MVA/Nos.
	Normal development works											
49	220/132 kV, 160 MVA GSS at Chhatargarh (Upgradation)	ES, LR		1x160	3016	2017-18	200			2000		160
	220 kV D/C line from 220 kV GSS Gajner to proposed 220 kV GSS Chhatargarh	ES, LR		200	5411.44	2017-18	400			2500	200	
50	(i) 220/132 kV, 1x160 MVA GSS at Kushlana (Sardarshahar)(Distt. Churu)			1x160	3360.23	2017-18	500			1000		160
	(ii) LILO of one circuit of 220 kV D/C STPS- Ratangarh line at proposed 220 kV GSS Kushlana (Sardarshahar)	SS,LC,LR	18		448.63	2017-18	100			300	18	
B.	New 400 kV & 220 kV Schemes (to be identified) (Including land cost for land bank & PPP schemes and their priliminary boundary wall works etc)						1000			2000		
C.	220 kV Bus Bar Protection Scheme						2200			2200		
D.	Carried Over Liabilities (Civil works & Bal.Elect. Works - 220kV & 400kV)of Sub Stations & Lines Commissioned in last 3 years only											
	(a) CE (T&C), Jaipur Zone						200			400		
	(b) CE (T&C), Jodhpur Zone						300			600		
	(c) CE (T&C),Ajmer Zone						200			400		
	(d) CE (Civil), Jaipur						100			200		
	(e) CE (Civil), Jodhpur						200			400		
	III. Total (220 kV)						33750	1429	1100	48050	1085	1700
	Target 220 kV - WORKING							1429	1100/7		1085	1700/11
	Annual Plan target							668	1020/8		628	1440/8
IV	132kV SCHEMES											
A	On-Going Schemes											
	Normal Development Schemes											
1	(i) 132kV GSS at Khetusar (Jodhpur)	LR,LC		25	1250.18	24.4.15	50			-		
	(ii) 132kV S/C Bhadla-Khetusar line	LR,LC	28		559.8	24.4.15						
	(iii) 1 No. Bay at 132kV GSS at Bap	LR,LC			1283.11							
2	(i) 132/33kV, 20/25MVA GSS at Batoda (Sawaimadhopur)	LC,LR,VR		25	1223.28	10.6.15	50			-		
	(ii) 132kV S/C line from 220kV Gangapurcity GSS to Batoda	LC,LR,VR	21		345.88	10.6.15						
	(iii) 1 No. 132kV bay at 220kV GSS Gangapurcity	LC,LR,VR			59.83	10.6.15						
3	(i) 132/33kV, 20/25MVA GSS at Kolukheri P.S.Chhabra (Distt. Baran)	LC,LR,VR		25	1567.42	15.6.15	50			-		
	(ii) 132kV S/C Chhipabarod - Kolukheri line	LC,LR,VR	25			10.6.15						
	(iii) 1 No. 132kV bay at 132kV GSS Chhipabarod	LC,LR,VR				10.6.15						
4	LILO of 132kV Heerapura-VKIA-Rampura Dabri line with 132 kV GSS at RIICO, Sarna Doongar (Jaipur)	LC,LR,VR	2	25	1401.57	31.7.15	50			-		
5	(i) 132kV GSS at Anandpur Kaloo (Pali)	LR,LC		25	1250.18	27.9.15	100			-		
	(ii) 132kV S/C Jaitaran-Anandpur Kaloo line	LR,LC	18		209.12	27.9.15						
	(iii) 1 No. Bay at 132kV GSS at Jaitaran	LR,LC				27.9.15						
6	(i) 132 kV GSS Posaliya (Arathwara)(Jodhpur)	VR, LR, LC		25	1283.44	28.10.15	100			-		
	(ii) LILO 132kV Sirohi-Sumerpur line	VR, LR, LC	3		113.65	28.10.15						
7	(i) 132 kV GSS Panchu (Distt. Bikaner)	VR, LR, LC		25	1224.06	8.8.15	50			-		
	(ii) 132kV S/C Deshnok - Panchu	VR, LR, LC	33		682.31	7.8.15						
	(iii) 1 No. 132kV bay at 220kV GSS Deshnok	VR, LR, LC			59.38	7.8.15						

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							Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets		
								Revised			Revised		
								Ckt Km.	MVA/Nos.		Ckt Km.	MVA/Nos.	
8	(i) 132/33kV, 20/25MVA GSS at Parbatsar (Nagaur)	LR,VR		25	1223.28	21.12.15	100			-			
	(ii) 132kV S/C Roopangarh-Parbatsar line	LR,VR	23		247.37	21.12.15							
	(iii) 1 No. 132kV bay at 132kV GSS Roopangarh	LR,VR			59.83	21.12.15							
9	(i) 132kV GSS at Hatundi (Jodhpur)	LR,LC		25	1190.48	20.12.15	100			-			
	(ii) 132kV S/C Baithwasia -Hatundi line	LR,LC	25		515.46	20.12.15							
	(iii) 1 No. 132kV bay at 220kV GSS at Baithwasia	LR,LC			59.7	20.12.15							
10	(i) 132kV GSS at Bijaipur (Chittorgarh)	LR,SS		25	1190.48	2017-18	400			500		25	
	(ii) 1 No. 132kV bay at 220kV GSS Nimbahera	LR,SS			59.70	2017-18							
	(iii) 132 kV S/C Nimbahera - Bijaipur line	LR,SS	39		490.57	2017-18						39	
11	(i) 132/33kV, 20/25MVA GSS at Kanera (Chittorgarh)	LC,LR,VR		25	1223.28	2017-18	400			500		25	
	(ii) 132kV Nimbahera - Kanera line	LC,LR,VR	12		345.88	2017-18						12	
	(iii) 1 No. 132kV bay at 132kV GSS Bijaipur	LC,LR,VR			59.83	2017-18							
12	LILO of 132kV VKI - Vaishali Nagar line to New Jhotwara with 132kV GIS S/S at New Jhotwara (Jaipur) (Turnkey) on Tubular Monopoles (2.042kM) Revised	LC,LR	4	2x50	5109.10	2017-18	200			100	4	100	
13	LILO of 132kV S/C Bhuwana-Mahapalwas - Dulanja line with 132 kV GSS at Mahapalwas (Jhunjhunu) Work associated with 220kV GSSs	LC,LR	29	25	1820.42	20.3.16	500			0			
14	JODHPUR CITY EHV NETWORK STRENGTHENING SCHEME-I (JDENSS-I)	SS,LC											
	Lines associated with 220 kV GSS Barli.												
	(i) LILO of existing 132 kV S/C Jodhpur-PS8 line at Barli	SS,LC	3		42.20	2016-17	200	3		100			
	(ii) LILO of existing 132 kV CHB-Soorsagar line at Barli	SS,LC	14		144.97	2016-17		14					
	(iii) LILO of existing 132 kV S/C Tinwari-Soorsagar line at 400kV GSS Jodhpur.	SS,LC	37		514.91	2016-17		37					
15	Strengthening scheme of existing 132kV Chopasani Housing Board (CHB) GSS	SS,LC											
	(i) Upgradation of existing 132 kV S/C Jodhpur-CHB-Soorsagar Line to 220 kV D/C Narrowbase Towers (to be charged on 132 kV)	SS	16		969.47	2016-17	200			100			
	(ii) Construction of 132kV Bus coupler bay at 220kV GSS Jodhpur.	SS			64.51	2016-17							
16	132kV D/C Baithwasia-Osian line (ATS 220kV Baithwasia) One ckt comm. On 6.10.15	LR,SS	26		313.85	2016-17	50			0			
17	132 kV S/C from 220 kV GSS Lalsot to existing 132 kV GSS Toonga (ATS 220kV Lalsot)	LR,SS	28		367.10	2.7.16	100			-			
18	LILO of existing 132 kV S/C Mokhampura –Amet line at 220 kV GSS Bamantukda	LR,SS	10		105.35	9.1.16	10			-			
19	(i) LILO of existing 132 kV S/C Sayla-Daspan line at proposed 220 kV GSS Sayla	LR,LC	19		255.63	18.3.16	Incl. in			-			
	(ii) LILO of existing 132 kV S/C Sayla-Jeewana line at proposed 220 kV GSS Sayla.	LR,LC	6		107.16	30.9.15	220kV GSS Sayla						
20	(i) LILO of 132 kV S/C Beawar-Nasirabad line at proposed 220 kV GSS Jethana	LR,LC	12		107.16	2016-17	Incl. in	12		-			
	(ii) 132 kV S/C line from proposed 220 kV GSS Jethana to 132 kV GSS Saradhana	LR,LC	16		2026.59	2016-17	220kV GSS Jethana	16					
21	LILO of 132kV S/C Bassi- Puranaghat line at proposed 220kV GSS Goner.	SS,LC,LR	21		272.95	9.5.16	Incl. in 220kV Goner	21		-			
22	LILO of 132kV S/C Balawala- Phagi line at proposed 220kV Vatika.	LR,SS	15		167.97	16.12.15	Incl. in 220kV GSS Vatika			-			
23	(i) LILO of existing 132 kV Merta-Kuchera line at proposed 220 kV GSS Kuchera	SS,LC	3		62.76	5.4.16	incl. in 220kV scheme			-			
	(ii) LILO of existing 132 kV Kuchera - Sanjoo line at proposed 220 kV GSS Kuchera	SS,LC	3		21.64	5.4.16							

S.No.	Name of the Work/Project	Category	Line Length (Ckt. km)	Capacity (in MVA)	Estimated cost	Working Target / Dt. of Comm.	Annual Plan 2016-17 (Revised)			Annual Plan 2017-18 (Proposed)		
							Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
								Revised			Revised	
								Ckt Km.	MVA/Nos.		Ckt Km.	MVA/Nos.
24	(i) LILO of existing 132 kV S/C Mandalgarh- Begun line at proposed 220 kV GSS Mandalgarh	LR,SS	2		11.38	2016-17	incl. in 220kV scheme	2		-		
	(ii) LILO of existing 132 kV Bijolia-Beegod line at proposed 220 kV GSS Mandalgarh	LR,SS	1		11.38	2016-17		1				
25	(i) 132kV D/C line from 220kV Chonkarwada to 132kV GSS Bhusawar (Revised)	LR,SS	34		504.24	2016-17	incl. in 220kV Chonkarwada	34		incl. in 220kV Chonkarwada		
	(ii) 132kV D/C line from 220kV Chonkarwada to 132kV GSS Mahuwa (52.48 ckm)	LR,SS	52		543.20	17.4.15						
	(iii) 2 Nos. 132kV bays at 132kV GSS Bhusawar	LR,SS			119.40	2016-17						
	(iv) 2 Nos. 132kV bays at 132kV GSS Mahuwa (Dausa)	LR,SS			119.40	17.4.15						
26	(i) LILO of 132kV S/C Behror-Jakhrana line at 220kV GSS Behror	LR,SS	2		42.80	2016-17	incl.in 220kV Behror			incl.in 220kV Behror		
	(ii) LILO of 132kV S/C Keshwana-Behror line at 220kV GSS Behror	LR,SS	29		209.60	30.10.15						
	(iii) 132kV S/C Jakhrana-Mandan line	LR,SS	32		398.03	14.11.13						
27	(i) LILO of 132 kV S/C Kotputli-Bansur line at proposed 220 kV GSS Bansur	LR,SS	5		42.80	20.11.15	incl.in 220kV Bansur					
	(ii) 132 kV S/C Bansur (220 kV GSS)-Mundawar line	LR,SS	34		429.39	3.3.15						
	(iii) LILO of 132 kV S/C Alwar (220kV) - Bansur (132kV) line at U/C 220 kV GSS Bansur alongwith 2 No. 132kV terminal bays at 220kV GSS Bansur (New sanctioned in addition to above)	LR,SS,LC	6		229.22	2016-17		6				
28	(i) LILO of 132 kV S/C Debari-Sukher line at proposed 220 kV GSS Amberi	LR,SS	3		105.35	2016-17	Incl in 220kV	3		Incl in 220kV		
	(ii) LILO of 132 kV S/C Sukher-Seesarma line at proposed 220 kV GSS Amberi	LR,SS	3		105.35	2016-17	Incl in 220kV	3		Incl in 220kV		
29	(i) LILO of 132kV S/C Chomu- Markhi line at 220kV GSS Niwana	VR, LR, LC	14		169.92	30.6.16	Niwana			Niwana		
	(ii) 132kV D/C line from 220kV GSS Niwana to 132kV GSS Govindgarh	VR, LR, LC	18		254.32	2016-17						
	(iii) 2 No. 132kV bay at 132kV GSS Govindgarh	VR, LR, LC			118.76	2016-17						
30	(i) 132 kV S/C PS2 - Kanasar (To be erected on D/C towers)	ES	12		199.82	2016-17	incl. in 220kV scheme Kanasar	12		incl. in 220kV scheme Kanasar		
	(ii) 132 kV D/C PS3 - Kanasar line	ES	23		231.54	2016-17		23				
31	JAIPUR CITY EHV NETWORK STRENGTHENING SCHEME-III [JENSS-III]	SS,LC										
(a)	(i) Up-gradation of existing 132 kV S/C Line to 220 kV D/C Lines Between 220 kV Indira Gandhi Nagar to 132 kV Sitapura (Charged on 132 kV)	SS	17		741.72	5.5.16	300			100		
	(ii) 2 Nos. 132kV Terminal Bays at 132 kV S/S Sitapura.	SS			123.50	5.5.16						
	(iii) 220 kV D/C Interconnection between 220 kV Sitapura (Proposed) and 132 kV Sitapura (Existing) [Charged on 132 kV]	SS	1		85.73	24.7.15						
	Normal Development Works											
32	(i) 132kV GSS at Kirmarsariya(Jodhpur)	LR,LC		25	1250.18	30.10.15	100			-		
	(ii) 132kV S/C Tinwari-Kirmarsariya line	LR,LC	13		307.02	27.10.15						
	(iii) 1 No. Bay at 132kV GSS at Tinwari	LR,LC				27.10.15						
33	132 kV S/C Karauli -Mandrayal line with 132 kV GSS Mandrayal (Karauli)	LR,VR	36	25	2006.46	2016-17	1000	36	25	500		
34	(i) 132kV GSS at Mangrol (Baran)	LC		25	1250.18	11.4.16	100		25	-		
	(ii) 132kV S/C Baran-Mangrol line	LC	32		368.2	11.4.16		32				
	(iii) 1 No. Bay at 132kV GSS at Baran	LR,LC				11.4.16						
35	(i) 132/33kV, 20/25MVA GSS at Ghatol (Banswara)	LC,LR,VR		25	1223.28	28.12.15	100			-		
	(ii) 132kV S/C Paloda -Ghatol line	LC,LR,VR	40		493.63							
	(iii) 1 No. 132kV bay at 132kV GSS Paloda	LC,LR,VR			59.83							
36	(i) 132 kV GSS Arain, Tehsil-Kishangarh (Ajmer)	VR, LR, LC		25	1283.44	13.8.15	100			-		
	(ii) LILO of 132kV Silora-Malpura line	VR, LR, LC	15		282.45	27.7.15						
37	(i) 132 kV GSS Seemalwara (Dungarpur)	VR, LR, LC		25	1224.06	23.12.15	200			-		
	(ii) 132kV GSS Sagwara -Seemalwara (Dungarpur)	VR, LR, LC	41		682.31	23.12.15						
	(iii) 1 No. 132kV bay at 132kV GSS Sagwara	VR, LR, LC			59.38	23.12.15						

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							Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
								Revised			Revised	
								Ckt Km.	MVA/Nos.		Ckt Km.	MVA/Nos.
	Normal Development Works											
38	(i) 132/33kV, 20/25MVA GSS at Sherera (Bikaner)	LC,LR,VR		25	1283.11	29.1.16	200			-		
	(ii) LILO 132kV Bikaner-Dulhasar line	LC,LR,VR	29		316.05	29.1.16						
39	(i) 132 kV GSS Pahari PS Kaman (Distt. Bharatpur)	VR, LR, LC		25	1224.06	6.6.16	700		25	-		
	(ii) 132kV S/C Kaman - Pahari PS Kaman	VR, LR, LC	27		375.78	6.6.16		27				
	(iii) 1 No. 132kV bay at 220kV GSS Lalsot	VR, LR, LC			59.38	6.6.16						
40	(i) 132 kV GSS bhasina (Distt. Churu)	VR, LR, LC		25	1224.06	8.11.15	200			-		
	(ii) 132kV S/C Parewara - Bhasina line	VR, LR, LC	12		256.57	29.10.15						
	(iii) 1 No. 132kV bay at 132kV GSS Parewara	VR, LR, LC			59.38	8.11.15						
41	(i) 132/33 kV, 20/25 MVA GSS Chhatargarh (Distt. Bikaner)	VR, LR, LC		25	1224.06	2016-17	500		25	200		
	(ii) 132kV S/C Khajuwala- Chhatargarh line	VR, LR, LC	50		852.61	2016-17		50				
	(iii) 1 No. 132kV bay at 132kV GSS Khajuwala	VR, LR, LC			59.38	2016-17						
42	132kV S/C Galifa - Sata line.	VR, LR, LC	50		997.72	2017-18	300			400	50	
	1 No. 132kV bay at 132kV GSS Galifa	VR, LR, LC				2017-18						
	1 No. 132kV bay at 132kV GSS Sata	VR, LR, LC				2017-18						
43	(i) 132 kV GSS Degana (Nagaur)	VR, LC		25	1314.83	21.12.16	800		25	200		
	(ii) 132kV GSS Sanjoo-Degana-Bherunda line	VR, LC	58		1022.91	21.12.16		58				
	(iii) 1 No. 132kV bay at 132kV GSS Bherunda	VR, LC			59.38	21.12.16						
	(iv) 1 No. 132kV bay at 132kV GSS Sanjoo	VR, LC			59.38	2016-17						
44	(i) 132/33kV, 20/25MVA GSS at Parasneu (Churu)	VR, LR, LC		25	1283.44	22.12.16	800		25	200		
	(ii) LILO Ratangarh-Sridungargarh line	VR, LR, LC	2		29.25	22.12.16		2				
45	(i) Construction of 132kV S/C Nokha Daiya - Khajuwala line	SS,LC	81		955.99	2016-17	300	81		100		
	(ii) 1 No. 132kV bay at 132kV GSS Nokha Daiya	SS,LC			59.85	2016-17						
	(iii) 1 No. 132kV bay at 132kV GSS Khajuwala	SS,LC			59.85	2016-17						
46	Upgradation of existing 132 kV S/C Sikar-Laxmangarh-Fatehpur- Ratangarh line (presently with Wolf conductor on H-Pole towers) to ACSR Panther conductor on Lattice type towers (scheme of 220kV Laxmangarh)	SS,LR	81		1319.42	2016-17	300	81		100		
47	(i) 132/33 kV, 20/25 MVA GSS Govindgarh PS Laxmangarh (Distt. Alwar)	VR, LR, LC		25	1509.62	1.2.16	300			-		
	(ii) 132kV LILO from 132kV Nagar -Ramgarh line up to 132kV GSS Govindgarh	VR, LR, LC	18			31.1.16						
48	Associated schemes of 220kV GSS Bhawanimandi											
	(i) LILO of 132 kV S/C Bhawanimandi- Hemda line	VR, LR, LC	1		57.39	2016-17	Incl. in 220kV Bhawaniman di	1		-		
	(ii) LILO of 132 kV S/C Bhawanimandi- Dug line	VR, LR, LC	2		57.39	2016-17		2				
49	(i) 132 kV GSS at Bapini (District – Jodhpur)	VR, LR, LC		25	1196.56	4.3.17	300			800		25
	(ii) 132 kV S/C Line from 220/132 kV GSS Aau- Bapini	VR, LR, LC	34		582.44	4.3.17					34	
	(iii) 132 kV Feeder bay at 220/132 kV GSS Aau	VR, LR, LC			51.54	4.3.17						
50	(i) 132 kV GSS at Setrawa (District – Jodhpur)	VR, LR, LC		25	1196.56	30.11.16	800		25	100		
	(ii) 132 kV S/C Dechu (220 kV GSS) - Setrawa	VR, LR, LC	29		496.79	30.11.16		29				
	(iii) 132 kV Feeder bay at 220/132 kV GSS Dechu	VR, LR, LC			51.54	30.11.16						

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							Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
								Revised			Revised	
								Ckt Km.	MVA/Nos.		Ckt Km.	MVA/Nos.
51	(i) 132/33kV, 20/25MVA GSS at Gogelaw (Nagaur)	VR, LR, LC		25	1705.21	2016-17	700		25	200		
	(ii) LILO of 132kV Nagaur - Khinvsar line	VR, LR, LC	32			2016-17		32				
52	(i) 132/33kV, 20/25MVA GSS at Bhikamkore (Jodhpur)	VR, LR, LC		25	1681.39	27.12.16	800		25	100		
	(ii) 132kV S/C Bhikamkore - Biathwasia (220kV GSS) line (Revised)	VR, LR, LC	25			27.12.16		25				
	(iii) 132kV feeder bay at 220/132kV GSS Baithwasia	VR, LR, LC				27.12.16						
53	(i) 132/33kV, 20/25MVA GSS at S.S.Nagar (Jodhpur)	VR, LR, LC		25	1337.88	10.3.16	500			-		
	(ii) LILO of 132kV S/C Phalodi - Aau at S.S.Nagar (Jodhpur)	VR, LR, LC	6			10.3.16						
54	(i) 132/33kV, 20/25MVA GSS at Peepalwa (Banswara)	VR, LR, LC		25	1337.88	18.3.16	500			-		
	(ii) LILO of 132kV S/C Banswara - Dalot line at Peepalwa (Banswara)	VR, LR, LC	3			18.3.16						
55	(i) 132/33kV, 20/25MVA GSS at Mokhampura (Pratapgarh)	VR, LR, LC		25	1676.95	17.1.17	500		25	200		
	(ii) LILO of 132kV S/C Pratapgarh - Dalot line at Mokhampura (Pratapgarh)	VR, LR, LC	17			17.1.17		17				
56	(i) 132/33kV, 20/25MVA GSS at Bichiwara (Dungarpur)	VR, LR, LC		25	1681.38	4.3.16	600			-		
	(ii) 132kV S/C Bichiwara (Dungarpur) - Kherwara (under constriction) line	VR, LR, LC	25			4.3.16						
	(iii) 132kV bay at Kherwara	VR, LR, LC				4.3.16						
57	(i) 132/33kV, 20/25MVA GSS at Joojhpura (Udaipur)	VR, LR, LC		25	1595.72	27.1.17	1000		25	200		
	(ii) 132kV S/C Joojhpura (Udaipur) - Bhinder (132kV GSS) line	VR, LR, LC	20			27.1.17		20				
	(iii) 132kV bay at Bhinder	VR, LR, LC				27.1.17						
58	(i) 132/33kV, 20/25MVA GSS at Balicha (Udaipur)	VR, LR, LC		25	1507.42	14.3.17	500		25	600		
	(ii) LILO of 132kV S/C Madri - Jawar mines line at Balicha (Udaipur)	VR, LR, LC	18			14.3.17		18				
59	(i) 132/33kV, 20/25MVA GSS at Bhim (Rajsamand)	VR, LR, LC		25	1762.55	18.3.16	300			-		
	(ii) 132kV S/C Bhim (Rajsamand) - Asind (132kV GSS) line	VR, LR, LC	30			18.3.16						
	(iii) 132kV bay at Asind	VR, LR, LC				18.3.16						
60	LILO 132kV Jodhpur-Baori line for 132 kV Jhalamand with 132kV GSS at Jalamand (Jodhpur)	LC,LR	4	25	1078.83	To be upgraded to 220kV GSS Jhalamand	50			50		
61	LILO of existing 132 kV S/C Jodhpur(220kV GSS)- Bilara line at Jhalamand	SS,LC	10		103.86	2017-18	Incl. in 220kV scheme Jhalamand			Incl. in 220kV scheme Jhalamand	10	

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							Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
								Revised			Revised	
								Ckt Km.	MVA/Nos.		Ckt Km.	MVA/Nos.
62	Jaipur City EHV Network Strengthening Scheme-IV (Phase-I)											
	132kV Interconnection											
	(i) 132 kV Hybrid GIS Bay at Jawahar Nagar (Jaipur)	LR,SS			269.84	2017-18	100			200		
	(ii) 132 kV S/C Cable system between 132 kV MNIT and 132 kV Substation Jawahar Nagar	LR,SS	6		2251.67	2017-18					6	
	Interconnections for 220 kV GSS Nawalgarh (RVPN Scope)											
63	(i) 132kV D/C Nawalgarh (220kV GSS) - Nawalgarh (132kV GSS) line with 2 Nos. 132kV feeder bays at 132kV GSS	SS	23		624.73	2017-18	500			500	23	
	(ii) 132kV D/C portion of above lineemanating from 220kV GSS Nawalgarh	SS	7.2			2017-18					7.2	
64	(i) 132 kV S/C Nawalgarh(220 kV) - Kumawas line	SS	16.09		1075.5	2017-18					16.09	
	(ii) 1No. 132kV bay at Kumawas.	SS				2017-18						
65	(i) 132 kV S/C Nawalgarh(220 kV) - Gudagorji line	SS	28.7			2017-18					28.7	
	(ii) 1No. 132kV bay at Gudagorji	SS				2017-18						
66	(i) 132 kV D/C portion of above line emanating from 220 kV GSS Nawalgarh	SS	7.2			2017-18					30	
	(ii) 1No. 132kV bay at Nawalgarh	SS				2017-18						
	Supplementary Transmission System for Power Evacuation Scheme of Solar Power Projects in Jaisalmer, Barmer, Jodhpur and Bikaner Districts(132kV schemes associated with 220kV GSS's)											
67	LILO of existing 132 KV S/C PS1-Bajju line at proposed 220 KV GSS PS_1 / Bajju (KfW)	ES	2		30.85	2017-18	Incl in 220kV scheme			16	2	
68	LILO of existing 132 KV S/C Chandan-Pokaran line at proposed 220 KV GSS Pokaran	ES	20		308.54	2017-18				100	20	
69	LILO of existing 132 KV S/C Kolavat-Bajju line at proposed 220 KV GSS Kolayat (KfW)	ES	62		956.47	2017-18				400	62	
70	Optical Fibre Cable System for 132kV Schemes already approved under Main Transmission System for New Solar & Wind Power Plants (as per Appendix-IIB) & Smart Grid Applications. (ADB)	ES										
	(i) 132kV Transmission Lines already approved under Main Transmission System for Solar & Wind Power Plants (Total Route length 22km)	ES			141.83	2017-18	Incl in 220kV scheme			Incl in 220kV scheme		
	Power Evacuation Scheme for New Wind and Solar Projects in Banswara, Pratapgarh and Barmer districts											
71	(i) 132 kV D/C interconnection at proposed 220 kV GSS Undoo	ES	40		648.8	2017-18	100	40		500	40	
	(ii) 2 nos., 132 kV extension bays	ES			136.67	2017-18						
	Normal Development works											
72	(i) 132/33kV, 20/25MVA GSS at Desuri (Distt. Pali)	VR, LR, LC		25	1766.5	28.2.17	900		25	100		
	(ii) 132kV S/C Bali - Desuri line	VR, LR, LC	30			28.2.17		30				
	(iii) 1 No. 132kV bay at 220 kV GSS Bali	VR, LR, LC				28.2.17						
73	(i) 132/33kV, 20/25MVA GSS at Mamoni (Distt. Baran)	VR, LR, LC		25	1865.43	2017-18	1000			700	25	
	(ii) 132kV S/C Kelwara - Mamoni line	VR, LR, LC	25			2017-18					25	
	(iii) 1 No. 132kV bay at 132 kV GSS Kelwara	VR, LR, LC				2017-18						
74	132 kV S/C line (2nd circuit) between 220 kV GSS VKIA and 132 kV GSS VKIA, Jaipur on Tubular Monopoles [Inplace of earlier scheme of Extension of Existing 132 kV S/C VKIA - Pratap Steel line upto 220 kV GSS VKIA]	LC,SS	3		996.15	2017-18	100			100	3	
75	(i) 132/33 kV, 20/25 MVA capacity Grid Substation at Kishanganj (Distt. Baran)	LR ,LC,SS		25	1527.87	27.3.16	500			-		
	(ii) LILO of 132 kV Baran - Kelwara line [In place of already approved scheme of 132 kV substation at Bhanwargarh (Kishanganj) (Distt. Baran)]	LR ,LC,SS	7			27.3.16						
76	(i) 132/33 kV, 20/25 MVA substation at Dadabari	LC, LR		25	1443.58	2017-18	1000			800	25	
	(ii) LILO of 132 kV Sakatpura- I/A -II line on Narrow Base and Monopole Towers	LC, LR	3		716.52	2017-18					3	
77	(i) 132/33 kV, 20/25 MVA GSS at Rooparail PS Jhalarapatan	LC, LR		25	1443.58	29.2.16	600			-		
	(ii) LILO of 132 kV S/C Jhalawar - Bakani line	LC, LR	2		30.49	29.2.16						

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							Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
								Revised			Revised	
								Ckt Km.	MVA/Nos.		Ckt Km.	MVA/Nos.
78	(i) 132/33 kV, 20/25 MVA GSS at Swaroopganj	LC, LR		25	1443.58	22.7.16	500		25	-		
	(ii) LILO of 132 kV S/C Pindwara-Aburoad line	LC, LR	10		147.95	30.3.16						
79	(i) 132/33 kV, 20/25 MVA GSS at Water Works Sanwali Road, Sikar	LC, LR		25	1443.58	2017-18	200			900		25
	(ii) LILO of 132kV S/C Sikar-Ranoli line	LC, LR	2		30.49	2017-18					2	
80	(i) 132/33 kV, 20/25 MVA GSS at Bhanipura	LC, LR		25	1443.58	16.3.16	500			-		
	(ii) LILO of 132 kV S/C Sardarshahar-Rajiasar Line	LC, LR	3		45.18	16.3.16						
	New start 2016-17											
	New transmission system for evacuation of generation from new solar and wind power plants in Western & South Eastern Rajasthan											
96	Interconnection of 220kV GSS Shoo											
	(i) LILO of 132 kV S/C Sheo (132 kV GSS) - Undoo line at proposed 220 kV GSS Sheo	ES, LR	10	-	189.38	2017-18	50			90	10	
	(ii) LILO of 132 kV S/C Sheo (132 kV GSS) - Jaisalmer line at proposed 220 kV GSS Sheo	ES, LR	10	-	189.38	2017-18	50				10	
97	Interconnection of 220kV GSS Salamgarh/ Ghat											
	(i) 132 kV D/C line from proposed 220 kV GSS Salamgarh/ Ghatol to 132 kV GSS Dalot	ES, LR	30		565.59	2020-21	10			80	30	
	Normal development works											
98	Interconnecting line of 220KV GSS Chhatargarh											
	132 kV D/C line from proposed 220 kV GSS Chhatargarh to existing 132 kV GSS Loonkaransar	ES, LR	154		2554.69	2017-18	200			400	154	
99	(i) 132/33 kV, 20/25 MVA substation at Sangarh	VR, LR, LC		25	1439.4	26.2.17	600		25	600		
	(ii) LILO of 132 kV Jaisalmer-Sheo line	VR, LR, LC	4		61.03	26.2.17	50	4		10		
100	(i) 132/33 kV, 20/25 MVA substation at Bana Ka Bas	VR, LR, LC		25	1439.4	2017-18	100			1300		25
	(ii) LILO of 132 kV S/C Tinwari-Osian line	VR, LR, LC	40		610.38	2017-18	200			300	40	
101	(i) 132/33 kV, 20/25 MVA substation at Kitasar	VR, LR, LC		25	1439.4	25.2.17	600		25	600		
	(ii) LILO of 132 kV Sri Dungargarh-Ratangarh line	VR, LR, LC	6		91.55	25.2.17	50	6		25		
102	(i) 132/33 kV, 20/25 MVA GSS at Tatarsar	VR, LR, LC		25	1439.4	2017-18	100			1300		25
	(ii) LILO of 132 kV Padampur-Sri Ganganagar line	VR, LR, LC	12		183.11	2017-18	50			100	12	
103	(i) 132/33 kV, 20/25 MVA GSS at Nathrau	VR, LR, LC		25	1386.7	2017-18	100			1200		25
	(ii) 132 kV S/C Dechu (220 kV GSS)-Nathrau line	VR, LR, LC	20		367.93	2017-18	25			200	20	
	(iii) 132 kV feeder bay at 220 kV GSS Dechu	VR, LR, LC			52.7	2017-18	10			25		
104	(i) 132/33 kV, 20/25 MVA GSS at Marena	VR, LR, LC		25	1439.4	2017-18	50			600		25
	(ii) LILO of Dholpur-Rajakhera line	VR, LR, LC	10		152.59	2017-18	25			100	10	
106	(i) 132/33 kV, 20/25 MVA GSS at Gangdhar PS Dug	VR, LR, LC		25	1386.7	2017-18	50			1200		25
	(ii) 132 kV S/C Dug- Gangdhar line	VR, LR, LC	26		478.31	2017-18	25			350	26	
	(iii) 132 kV feeder bay at 132 kV GSS Dug	VR, LR, LC			52.7	2017-18	10			25		
107	(i) 132/33 kV, 20/25 MVA GSS at Chouth Ka Barwara	VR, LR, LC		25	1439.4	2017-18	100			500		25
	(ii) LILO of 132 kV Sawai Madhopur-Tonk line	VR, LR, LC	10		152.59	2017-18	50			100	10	

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							Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
								Revised			Revised	
								Ckt Km.	MVA/Nos.		Ckt Km.	MVA/Nos.
108	(i) 132/33 kV, 20/25 MVA GSS at Bera	VR, LR, LC		25	1386.7	2017-18	100			1200		25
	(ii) 132 kV S/C Sumerpur-Bera line	VR, LR, LC	30		551.9	2017-18	100			400	30	
	(iii) 132 kV feeder bay at 132 kV GSS Sumerpur	VR, LR, LC			52.7	2017-18	10			25		
109	(i) 132/33 kV, 20/25 MVA GSS at Baba Ram Mohan Temple	VR, LR, LC		25	1439.4	2017-18	500			900		25
	(ii) LILO of 132 kV Bhiwadi-Khushkhera line	VR, LR, LC	3		45.75	2017-18	40			10	3	
110	(i) 132/33 kV, 20/25 MVA GSS at Nanta	VR, LR, LC		25	1439.4	2017-18	200			1200		25
	(ii) LILO of 132 kV S/C Sakatpura-Talera Line	VR, LR, LC	4		61.04	2017-18	50			25	4	
111	(i) 132/33 kV, 20/25 MVA GSS at Sarola Kalan PS Khanpur	VR, LR, LC		25	1386.7	2017-18	50			500		25
	(ii) 132 kV S/C Khanpur- Sarola Kalan line	VR, LR, LC	19		349.53	2017-18	25			100	19	
	(iii) 132 kV feeder bay at 132 kV GSS Khanpur	VR, LR, LC			52.7	2017-18	10			25		
112	(i) 132/33 kV, 20/25 MVA GSS at Keshoraipatan	VR, LR, LC		25	1439.4	2017-18	500			900		25
	(ii) LILO of Kota-Lakheri-Sawai Madhopur Ckt-I line	VR, LR, LC	14		213.63	2017-18	100			100	14	
113	(i) 132/33 kV, 20/25 MVA GSS at Bhopalsagar	VR, LR, LC		25	1386.7	2017-18	500			1000		25
	(ii) 132 kV S/C Kapasan-Bhopalsagar line	VR, LR, LC	15		257.95	2017-18	150			100	15	
	(iii) 132 kV feeder bay at 132 kV GSS Kapasan	VR, LR, LC			52.7	2017-18	40			10		

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							Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
								Revised			Revised	
								Ckt Km.	MVA/Nos.		Ckt Km.	MVA/Nos.
116	(i) 132/33 kV, 20/25 MVA GSS at Chordi	VR, LR, LC		25	1443.58	2017-18	100			100		25
	(ii) LILO 132kV S/C Bagidora-Mahi Ph-2 line	VR, LR, LC			353.51	2017-18	50			50		
117	(i) 132/33 kV, 20/25 MVA GSS at Bhamatsar	VR, LR, LC		25	1443.58	2017-18	100			100		25
	(ii) LILO of 132 kV S/C Deshnok- Nokha line	VR, LR, LC	10		441.6	2017-18	50			50	10	
118	Interconnection of 220KV GSS Kushlana											
	(i) 132 kV D/C line from proposed 220 kV GSS Kushlana (Sardarshahar) to 132 kV GSS Patlisar Fanta	VR, LR, LC	56		823.34	2017-18	50			700	56	
	(ii) LILO of existing 132 kV S/C Sardarshar - Rajiasar line at proposed 220 kV GSS Kushlana (Sardarshahar)	VR, LR, LC	18		265.41	2017-18	50			150	18	
119	(i) 132 kV GSS at RIICO Growth Centre, Hamirgarh (Distt. Bhilwara)	VR, LR, LC		25	1439.4	2017-18	500			825		25
	(ii) LILO of existing 132kV Hamirgarh-Nitin Spinners line upto 132 kV GSS RIICO Growth Centre, Hamirgarh (4 kM)	VR, LR, LC	8		122.07	2017-18	100			61	8	
120	(i) 132 kV GSS at Dabi PS Talera (Distt. Bundi)	VR, LR, LC		25			0			50		
	(ii) 132 kV S/C line from 132 kV GSS Bijoliya to 132 kV GSS Dabi PS Talera	VR, LR, LC	26		1905.54	2017-18	0			25		
B.	132 kV New Schemes (To be identified) (Including land cost for land bank & PPP schemes and their priliminary boundary wall works etc)						500			1000		
C.	Carried Over Liabilities (Civil works & Bal.Elect. Works - 132kV) of Sub Stations & Lines Commissioned											
	(a) CE (T&C), Jaipur Zone						200			400		
	(b) CE (T&C), Jodhpur Zone						300			600		
	(c) CE (T&C),Ajmer Zone						200			400		
	(d) CE (Civil), Jaipur						100			200		
	(e) CE (Civil), Jodhpur						200			400		
	IV. Total (132 kV)						28940	778	400	30377	915.99	625
	Target 132 kV - WORKING							778	400/16		915.99	625/22
	Annual Plan target							551	400/16		329	550/22
V	Capacitor banks (MVAR)											
	(a) CE (T&C), Jaipur Zone						200			500		
	(b) CE (T&C), Jodhpur Zone						250			500		
	(c) CE (T&C),Ajmer Zone						200			500		
	(d) CE (Civil), Jaipur						150			250		
	(e) CE (Civil), Jodhpur						200			250		
VI	Augmentation (EAP & Plan)/(Upgradation)											
	i. Transformers capacity (MVA)											
	ii. 400/220/132/33kV Feeder bays, Transformer bays, Bus-coupler bays etc.											
	iii. 33kV line bays as per requirement of Discoms											
	iv. Other works approved under Augmentation											
	(a) CE (T&C), Jaipur Zone						7400			7400		
	(b) CE (T&C), Jodhpur Zone						7500			7400		
	(c) CE (T&C),Ajmer Zone						7200			7400		
	(d) CE (Civil), Jaipur						500			600		
	(e) CE (Civil), Jodhpur						600			600		

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							Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
								Revised			Revised	
								Ckt Km.	MVA/Nos.		Ckt Km.	MVA/Nos.
VII	Replacement of Plant and Machinery/ Equipment in Transmission system under various conditions (viz; failure/damage, End of life/obsolescence of technology etc.)											
	(a) CE (T&C), Jaipur Zone						1000			800		
	(b) CE (T&C), Jodhpur Zone						1000			800		
	(c) CE (T&C),Ajmer Zone						1000			800		
VIII	Automation/ SCADA solutions, RTU's/ BCU's, related primary equipments upgradations, communication interfaces/ channels (under ULDC, up gradation of existing S/S)						2000			2000		
IX	(i) Supply, installation, implementation , customization and integration of SAP ERP solution in RVPN						1200			600		
	(ii) Purchase of IT hardwares, associated standard software, Computer furniture, networking equipment, internet connectivity etc.						900			500		
	(iii) Creation of Data Centre (San storage 2 , Racks , Server, Civil works , Networking etc.)						800			800		
	(iv) Capital cost on IT/non-IT goods for Integrated MIS & Computerisation in RVPN						84			48		
	(v) Creation of IT centre at Chambal including civil, electrical works, IT & Communication related works , furniture and allied works.						100			55		
X	RMU of equipments & protection schemes of RVPN (Scheme -II & III)						1500			1000		
XI	Replacement of old, obsolete and unserviceable PLCC equipment installed in RVPN system and installation of carrier set for dedicated data link for upcoming RTU under RMU and Augmentation sscheme. (RMU- PLCC stage -II scheme)				1244.27		400			200		
XII	Supply, installation, & commissioning of ABT & TOD energy meters (Metering Schemes for Acquisition of Data from New and Existing ABT and TOD Energy Meter and its Communication / Transmission and Integraton with various data centers, GSSs and offices of RVPN.)				10491		1700			1000		
XIV	(i) Smart Transmission Network & Asset Management System (STNAMS)				53500		5000			30000		
	(ii) Smart Transmission Operation Management System (STOMS)				3000		1500			1500		
XV	Old miscelleneous works						5000			2600		
XVI	Allocation by CCOA (For Admn. & Residential builings, T&P, purchase of vahicles& other administrative works etc.)						1500			1500		
	Total (V to XVII)						48884			69603		
	Total of Transmission Works				1324635.518		211696			268000		
	Abbreviation Used :-											
	VR : Voltage Regulation Improvement Scheme.	Kf W : a financing institution of Germany										
	LC : Load Catering Scheme.	PSDF : Power System development System										
	SS : System Srenathening Scheme.	RFD : Result Framework Document										
		Mtg. : Metering										
		Aug. : Augmentation										