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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RVPN
An ISO 9001:2000
Certified Company

No. RVPN/SE(P&P)/XEN (Proj.)/AE-IV/ F. 288 /D 1918 Jaipur, Dt. 28-3-2018

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 2017-18 and Annual Plan 2018-19 (Proposed).
Ref: This office letter no. 1851 dated 17.03.2017.

Kindly refer this office letter no. 1851 dated 17.03.2017 vide which Annual Pan 2017-18 for capital works was circulated having outlay ceiling of Rs. 2700 crore. The Plan size for FY 2017-18 was revised by Govt. of Rajasthan to Rs. 2052.54 crore. The proposed Annual Plan for FY 2018-19 is of Rs. 1500.00 crore including all the schemes approved by BoD/WTD, after last Plan circulated vide this office letter no. 1851 dated 17.03.2017.

In view of above, a copy of the revised Annual Pan for FY 2017-18 and FY 2018-19 (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**It is to be noted that the earlier Annual Plan circulated vide this office letter no. 1851 dated 17.03.2017 have now been replaced by this new Annual Plan.**

Encl: As above.

28/3/18
(Kanika Sharma)
Chief Engineer (PP&D)

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

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 2017-18 (Revised) & 2018-19 (Proposed)

(a) Financial targets 2017-18 (Revised) & 2018-19 (Proposed)

(Rs. In crores)

S. No.	Head	Plan Outlay 2017-18 (Revised)	Plan Outlay 2018-19 (Proposed)
1.	Generation (Shared generating projects)	**20.00**	**20.00**
2	Transmission Works	2032.54	1480.00
	Total	**2052.54**	**1500.00**

(b) Physical Targets 2017-18 (Revised) & 2018-19 (Proposed)

S. No	Particulars	Unit	Target 2017-18 (Revised)	Proposed target 2018-19 (tentative)
.1	765 kV Lines	ckMs	-	-
2	765 kV S/S	MVA	-	-
		Nos.	-	-
3	400 kV Lines	ckMs	1180	740
4	400 kV S/S	MVA	3630	1630
		Nos.	**3**	**2**
5	220 kV Lines	ckMs	362	310
6	220 kV S/S	MVA	320	640
		Nos.	**2**	**3**
7	132 kV Lines	ckMs	346	317
8	132 kV S/S	MVA	475	375
		Nos.	**16**	**15**
9	Augmentation 400/220/132kV	MVA	1500	1500
10	Capacitor Bank	MVAR	300	300

Transmission - Details of Plan Provisions & Physical Targets for Annual Plan 2017-18 (Revised) & 2018-19 (Proposed)

Annexure-A

Rs. In lacs

S.No.	Name of the Work/Project	SAP code	Category	Line Length (Ckt. kM)	Capacity (in MVA)	Estimated cost (with IDC)	Working Target / Dt. of Comm.	Annual Plan 2017-18 (Revised)			Annual Plan 2018-19		
								Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
									Revised			Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
	1					2	4						
I	**765kV Schemes**												
	New start 2017-18												
1	Installation of 3x500 MVA, 765/400kV Power transformer (ICT-3) at 765kV GSS at Phagi in place of already approved scheme of 2x500MVA, 765/400kV Transformer at 765kV GSS Phagi alingwith associated bays.	CGSS/17.02	ES	-	1500	7509.4	2019-20	1000	-	-	1500	-	-
	I. Total (765kV)	**0**						**1000**	**0**	**0**	**1500**	**0**	**0**
	765 kV - Working								**0**	**0**		**0**	**0**
	Annual Plan target								**0**	**0**		0	**0**
II	**400kV Schemes**												
	On-going schemes												
	Composite Power Evacuation System {Chhabra Super Critical TPS (2x660MW) & Kalisindh TPS (2x600 MW)}												
1	400 kV D/C (Twin Moose) Phagi (Jaipur 765 kV) - Ajmer Line (213ckM)	CLIN/09.01	ES	213	-	11603.74	2017-18	2000	213		300	-	
	Delinked Power Evacuation schemes of Banswara Super Critical TPS (IPP Unit-1&2) (2X660MW)												
2	400/220 kV , 1x500 MVA, 1x315 MVA GSS at Jodhpur (New) alongwith 400kV, 1x80 MVAR Bus Reactor. (Revised)	CGSS/09.06	ES	-	1x500, 1x315	15096.49	2018-19	6500	-		5000		815
	400kV Interconnecting Lines (Delinked from Banswara Super Critical TPS) :												
3	400 kV D/C Chittorgarh-Bhilwara (Twin Moose) Line	CLIN/09.04	ES	99	-	4644.14	2017-18/ 2018-19	700	99		300	-	
4	400 kV D/C Bhilwara-Ajmer (Twin Moose) Line	CLIN/09.06	ES	320	-	13923.6	**24.01.18**	1000	320		300	-	
	Power Evacuation Scheme of Suratgarh Super Critical TPS (Unit 7&8) (2x660MW)												
5	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.	CGSS/09.07	ES	-	2x315	14388.31	**22.02.18**	2400		630	300	-	
	400kV Interconnecting Lines (Suratgarh Super Critical TPS Evacuation) :												
6	400 kV D/C Suratgarh TPS- Babai (Jhunjhunu)(Quad Moose) Line	CLIN/09.24	ES	480	-	43576.58	2018-19	3700			1500	480	
	Transmission System for New Solar and Wind Power Plants in Jaisalmer, Barmer &												
7	(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	CGSS/09.13	ES	-	3x500	31527.71	**15.12.17**	7200		1500	0	-	
	(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		2017-18	100			0	-	

S.No.	Name of the Work/Project	SAP code	Category	Line Length (Ckt. kM)	Capacity (in MVA)	Estimated cost (with IDC)	Working Target / Dt. of Comm.	Annual Plan 2017-18 (Revised)			Annual Plan 2018-19		
								Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
									Revised			Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
	1					2	4						
8	(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)** **GSS comm on 22.07.2017**	CGSS/09.13	ES	-	3x500	36234.37	**22.07.17**	8200		1500	0	-	
	(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			0	-	
9	(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)**	CGSS/09.15	ES	-	1x500	8832.48	**(i) Transformer comm. on 5.3.15** (ii) 2017-18	100	-		0	-	
10	Augmentation at 400kV GSS Barmer												
	(i) 1x125 MVAR, 400kV Shunt Reactor (Bus type) at 400kV GSS Barmer		ES	-	-	3177.51	2018-19	500	-		400		
	(ii) 400kV bays for 400kV D/C Barmer-Bhinmal (PG) line		ES	-	-		2018-19						
11	Augmentation at 400kV GSS Bikaner **(ADB)**												
	(i) 1x125 MVAR, 400kV Bus Reactor at 400kV GSS Bikaner GSS	CGSS/14.02	ES	-	-	4968.21	2017-18	1000			100		
	(ii) 400kV Bays for 400kV D/C Bhadla-Bikaner line and 400kV D/C Bikaner-Sikar		ES	-	-		2017-18						
	(iii) 2 Nos. 220kV feeder bays alongwith 220kV D/C linking transmission line for charging 400kV Bhadla- Bikaner line on 220kV.		ES	-	-	616.15	2017-18						
12	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	CGSS/14.03	ES	-	-	3701.39	2018-19	200	-		500		
	(ii) 400kV bays at Jodhpur (New) for LILO of one ckt. of 400kV D/C Raj West LTPS-Jodhpur line.		ES	-	-		2018-19		-			-	
	400kV Interconnecting Lines (New Solar & Wind Plants) :												
13	400 kV D/C Ramgarh-Bhadla line (Twin Moose) (Revised)	CLIN/09.09	ES	320	-	15887.78	2018-19	3000			1000	320	
14	400 kV D/C Bhadla-Bikaner line (Quad Moose)	CLIN/09.10	ES	379	-	42589.27	**15.04.17**	1500	360		-	-	
15	400 kV D/C Ramgarh(Jaisalmer)-Akal (Jaisalmer) line (Twin Moose) **(ADB TR-1)**	CLIN/09.12	ES	200	-	9931.72	**15.12.17**	2400	200		0	-	
16	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)	CLIN/09.13	ES	390	-	19362.14	2018-19	2600	-		7000	390	
17	400 kV D/C Barmer-Bhinmal (PGCIL) line (Twin Moose) **(KfW)**	CLIN/09.14	ES	280	-	13902.43	2018-19	800	-		7000	280	
18	(i) 400kV D/C Akal-Jodhpur (New) line (Quad Moose) RVPN SCOPE	CLIN/09.15	ES	480	-	56784.04	2018-19	10200	-		4200	480	
	(ii) (Line conductor for 400kV D/C Akal-Jodhpur (New) line (Quad Moose) is in the scope of ADB)				-			13200			0		
19	**Inter- connect RVPN's 765/400 kV Anta GSS to PGCIL's 400/220 kV Kota GSS**												
	(i) LILO of 2nd circuit of 400 kV D/C Chhabra TPS-Dahra section at 765/400 kV Anta GSS	CLIN/10.01	ES	1	-	92.65	2017-18/ 2018-19	500	1		300		
	(ii) 400kV bay equipments work at 765/400kV Anta GSS	CBAY/10.01	ES	-	-	1811.54	2017-18/ 2018-19						
	(iii) 400 kV S/C line extension from 765/400 kV Anta GSS to PGCIL's 400/220 kV Kota GSS	CLIN/10.02	ES	45	-	2686.80	2017-18/2018-19		45				
20	**PSDF funded schemes**												

S.No.	Name of the Work/Project	SAP code	Category	Line Length (Ckt. kM)	Capacity (in MVA)	Estimated cost (with IDC)	Working Target / Dt. of Comm.	Annual Plan 2017-18 (Revised)			Annual Plan 2018-19		
								Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
									Revised			Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
	1					2	4						
	(i) Installation of one no. each new 400kV , 125MVAR Bus type Shunt Reactor at 400KV GSS Hindaun and 400KV Merta city alongwith shifting of 400KV , 50MVAR Bus type Shunt reactor from 400KV GSS Merta city to 400kV GSS Bhilwara and assoicated 400KV Bays at tese 400kv GSSs		SS	-	-	2396	2018-19	3200			4000		
	(ii) Scheme of Renovation and Up-gradation of all RVPN substations of 220kV and 400kV to rectify protection related deficiencies (PSDF granted schemes).		SS	-	-	8985.6	2018-19						
	Supplementary Transmission System for Power Evacuation Scheme of Solar Power Projects in Jaisalmer, Barmer, Jodhpur and Bikaner Districts (KfW funded schemes)												
21	400/220 kV, 2 X 500 MVA GSS at Jaisalmer-2 alongwith 1x125 MVAR , 400kV Bus Type Reactor	CGSS/08.02	ES		2 X 500	19379.76	2018-19	5000			4000		1000
22	400 kV D/C Jaisalmer-2 -Barmer line	CLIN/11.09	ES	260		13498.12	2018-19	600			6000	260	
23	400kV Terminal Bay Equipment at 400/220kV GSS Barmer (for termination of 400 kV D/C Jaisalmer 2 - Barmer line at Barmer end)	CGSS/09.16	ES			3619.21	2018-19	200			500		
24	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)	CGSS/09.17	ES			1820.11	2018-19	100			400		
	New start 2017-18												
24	LILO of one ckt. Of under construction 400kV D/C Akal- Jodhpur line at 400 kV GSS Jaisalmer-2 **(KfW funded schemes)**		ES	20		2691.71	2018-19	100	-		1000	20	
25	1 no. 400kV Quad moose bay at Jaisalmer -2 (Half Dia) with additional hardware for conversion of one no. 400kV Twin Moose bay to Quad Moose bay **(KfW)**		ES			871.76	2018-19	100	-		300	-	
26	Augmentation at existing 400 kV GSS Akal [400/220kV, (+) 2x500MVA & (-) 2x315 MVA] **(KfW) (Revised)**	CBAY/16.18	ES		2x500	3912.7	2020-21	100	-		500	-	
	II. Total (400 kV)	**#REF!**						**77700**	**1238**	**3630**	**44900**	**2230**	**1815**
	Target 400 kV - Working								**1238**	**3630/3**		**2230**	**1815/2**
	Annual Plan target								**1180**	**3630/3**		**740**	**1630/2**
III	**220kV SCHEMES**												
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	CLIN/08.01	SS	10	-	854.81	Target to be finalised	50	-		-		
	Transmission System for New Solar and Wind Power Plants in Jaisalmer, Barmer & Jodhpur Districts												
2	220kV Interconnecting Lines at 400kV GSS Jodhpur (New) :												
	(i) 220 kV D/C Jodhpur (New) - Jhalamand	CLIN/09.22	ES	40	-	2043.68	2017-18	100	40		100	-	
	(ii) 220 kV D/C Jodhpur (New) - Barli	CLIN/09.43	ES	92	-		2017-18		92			-	
	Power Evacuation System of Suratgarh Super Critical TPS												
3	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)	CLIN/09.44	ES	6		40.85	2017-18/ 2018-19	10	6		10	-	
4	**220 kV Revised Interconnections**												

S.No.	Name of the Work/Project	SAP code	Category	Line Length (Ckt. kM)	Capacity (in MVA)	Estimated cost (with IDC)	Working Target / Dt. of Comm.	Annual Plan 2017-18 (Revised)			Annual Plan 2018-19		
								Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
									Revised			Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
	1					2	4						
	(i) Extensiopn of 220 kV S/C VKIA- Kukas LILO line up to 220kV GSS Manoharpur	CLIN/09.46	ES	80		2052.12	**30.12.17**	100	80		-		
	(ii) 2 No. bays at 220kV GSS Manoharpur.	CBAY/09.08	ES										
	JODHPUR CITY EHV NETWORK STRENTHENING SCHEME-I [JDENSS-I]												
5	(i) 220 kV GSS at **Jhalamand (Up-gradation) (Distt. Jodhpur) (1x160MVA transformer comm. on 31.3.2017)**	CGSS/09.25	SS,LC		2x160, 2x50	4351.64	**31.3.2017**	500			-	-	
	(ii) LILO of 220kV Jodhpur (400kV GSS)-Jodhpur (220kV GSS) interconnector-I at Jhalamand **(1 st ckt comm. on 27.10.2016)**	CLIN/09.29	SS	2		35.52	**16.3.2017**		-			-	
	Normal development works												
6	220 kV interconnections at 400/220 kV GSS at Neemrana(PG)												
	(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.**	CLIN/10.03	LR,SS	54		945.79	2017-18	100	54		-		
	(ii) 2 No bays at Behror	CBAY/10.02	LR,SS										
	Supplementary Transmission System for Power Evacuation Scheme of Solar Power Projects in Jaisalmer, Barmer, Jodhpur and Bikaner Districts												
	RVPN scope schemes												
7	LILO of both circuits of 220kV D/C Ramgarh GTPS- Dechu line at 400kV Ramgarh. **Line completed**	CLIN/11.30	ES	1		641.81	2017-18	59	1		50	-	
	ADB loan schemes												
8	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)	CLIN/11.32	-	-	-	902.54	2017-18	500	-		100	-	
	(ii) Software Development for Integration/Innovation, Smart Grid Applications etc.	CLIN/11.34	-	-	-	128.93	2017-18		-			-	
	Composite Power Evacuation System [Chhabra Super Critical TPS(2x660MW) and Kalisindh TPS (2x600 MW)]												
9	LILO 220kV Ajmer-Kishangarh Line at 400kV Ajmer GSS. **Line completed**	CLIN/09.30	ES	11		408.5	2017-18/ 2018-19	50	7		50	-	
	Normal development works												
10	(i) 220 kV S/C Sirohi- Pindwara line	CLIN/11.05	SS	25		1450	2017-18/ 2018-19	400	25		500		
	(ii) 1 no.bays at 220kV GSS Sirohi	CBAY/11.06											
	(iii) 1 no.bays at 220kV GSS Pindwara	CBAY/11.07											
11	(i) 220/132kV GSS at **Amberi (Distt. Udaipur)**	CGSS/11.10	LR,SS	-	1X160, 1x25	4180.77	**28.2.17**	400	-		-	-	
	(ii) LILO of 220 kV S/C Kankroli(PG)-Debari line at 220 kV GSS Amberi.	CLIN/11.29		30	-		**28.02.17**		-			-	
12	220 kV S/C Dhod -Danta Ramgarh line	CLIN/11.12	LR,SS	31	-	705.07	2017-18/ 2018-19	200	31		200	-	
	Power Evacuation System for Proposed Wind Project in Banswara and Pratapgarh												
13	(i) 220/132kV,1x160MVA GSS at Pratapgarh (Up-gradatation)	CGSS/11.12	LR,SS		160	2635.20	**16.06.17**	1000		160	100		
	(ii) 2 Nos bays at 220kV GSS Chittorgarh	CBAY/11.10	LR,SS										
	(iii) 2 Nos bays at 220kV GSS Nimbahera	CBAY/11.11	LR,SS										

S.No.	Name of the Work/Project	SAP code	Category	Line Length (Ckt. kM)	Capacity (in MVA)	Estimated cost (with IDC)	Working Target / Dt. of Comm.	Annual Plan 2017-18 (Revised)			Annual Plan 2018-19		
								Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
									Revised			Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
	1					2	4						
	(iv) 220 kV D/C Pratapgarh-Chittorgarh (400 kV GSS) line with one circuit via 220 kV GSS Nimbhahera **(81 Ckm has been comm. on 16.6.17)**	CLIN/11.13	LR,SS	242		4111.82	**22.02.18**		242				
	Normal Development Works												
14	(i) 220/132kV, 2x160 MVA GSS at NPH Jodhpur (Up-gradation)	CGSS/11.13	LR,SS		2x160	3213.46	2018-19	500			200		320
	(ii) 220 kV D/C overhead line from 220 kV GSS Basni (Jodhpur) to 220 kV GSS NPH (U/C), Jodhpur in existing RoW using 220kV TOWERS, 220kV Tubler Monopoles & underground 220kV cable through the AIIMS premises	CLIN/11.14	LR,SS	11		2314.00	2018-19	1000			1200	11	
	(iii) 2 Nos. 220kV bays at 220kV GSS basni (Jodhpur)	CBAY/11.12				227.22	2018-19						
15	220kV D/C Ajmer (400 kV GSS)-Jethana (220kV GSS) line	CLIN/11.16	LR,LC	120		719.45	**21.12.2017**	200	120		-	-	
16	(i) 220/132kV, 1x160MVA GSS at Bherunda (Distt. Nagaur)	CGSS/13.02	SS,LC,LR		1x160	2477.41	2017-18	2000		160	1000	-	
	(ii) 220 kV D/C , Ajmer (400kV) - Bherunda line	CLIN/13.02	SS,LC,LR	80		1894.78	2017-18		80			-	
17	(i) 220/132 kV, 1x160 MVA GSS at Bhawanimandi (New Location) with 132/33 kV, 20/25 MVA capacity Transformer	CGSS/14.04	SS,LC,LR		1x160, 1x20/25	3534.38	**7.3.17**	1000			-		
	(ii) 220 kV S/C Kalisindh- Bhawanimandi line (R)	CLIN/14.01	SS,LC,LR	35		945.71	2017-18		35		200		
	(iii) 220 kV S/C Modak- Bhawanimandi line (R)	CLIN/14.02	SS,LC,LR	48		1296.15	**7.3.17**		48		-		
	Normal development works												
18	(i) 220/132 kV, 160 MVA GSS at Chhatargarh (Upgradation) **KfW funded**	CGSS/16.05	ES, LR		1x160	3016	2018-19	500			1000		160
	(ii) 220 kV D/C line from 220 kV GSS Gajner to proposed 220 kV GSS Chhatargarh	CLIN/16.09	ES, LR	200		5411.44	2018-19	400			1500	200	
19	(i) 220/132 kV, 1x160 MVA GSS at Halasar , Kushlana Johara, (Sardarshahar)(Distt. Churu)	CGSS/16.26	SS, LC, LR		1x160	3360.23	2018-19	900			1200		160
	(ii) LILO of one circuit of 220 kV D/C STPS- Ratangarh line at proposed 220 kV GSS Kushlana (Sardarshahar)	CLIN/16.40	SS, LC, LR	7.6		448.63	2018-19	300			200	7	
20	(i) 220 KV D/C Chatrail-Ramgarh (U/C 400 KV GSS) line (RVPN) **Line charged on low voltage 13.6.2016**		ES	90		2793.49	2017-18	50	90		50		
	(ii) 220 KV D/C PS_1 / Bajju -Bhadla (U/C 400 KV GSS) line **Line charged on 33kV on 08.02.16.**		ES	90		2095.12	2017-18	50	90		50		
	New start 2017-18												
	Power Evacuation System from new Solar & Wind Power Plants in Western Rajasthan. (KfW funded)												
21	(i) 220kV D/C Akal (400kV)- Jaisalmer-2 (400kV) line		ES	150		4574.25	2018-19/ 2019-20	100	-		1000	150	
	(ii) 2 Nos. 220kV bays at Jaisalmer-2 (400kV)		ES			187.6			-			-	
	Normal Development works												
22	220kV D/C Jodhpur (400kV GSS)- Banar line [completion of balance work of 220kV D/C Jodhpur (400kV GSS)- Banar line]								-			-	
	(i) 220 kV D/C line on Narrow Base/conventional towers from Jodhpur(400 kV GSS) to proposed 220 kV AIS sub-station Banar		LR,SS	26		1714.76	2018-19/ 2019-20	200	-		800	26	

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								Provision Plan (Tentative)	Physical Targets Revised		Provision Plan (Tentative)	Physical Targets Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
	1					2	4						
	(ii) 220 kV D/C XLPE Cable for termination of proposed 220 kV D/C Jodhpur(400 kV GSS)-Banar line at proposed 220 kV AIS sub-station Banar		LR,SS	1					-			1	
2	(i) 220/132kV,1x160MVA GSS at Aklera (New location)		LR,SS		160	3209.72	2018-19/ 2019-20	200			1000		160
	(ii) LILO of 220 kV S/C Jhalawar- Chhabra line at 220kV GSS Aklera (Proposed)		LR,SS	80		2001.88						80	
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	-		1000	-	
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							500			300		
	(b) CE (T&C), Jodhpur Zone							600			300		
	(c) CE (T&C),Ajmer Zone							500			200		
	(d) CE (Civil), Jaipur							200			100		
	(e) CE (Civil), Jodhpur							200			100		
	III. Total (220 kV)	**#REF!**						**16069**	**1041**	**320**	**14510**	**475**	**800**
	Target 220 kV - WORKING								**1041**	**320/2**		**475**	**800/4**
	Annual Plan target								**362**	**320/2**		**310**	**640/3**
IV	**132kV SCHEMES**												
A	**On-going schemes**												
	Normal Development Schemes												
1	(i) 132kV GSS at **Bijaipur (Chittorgarh)**	CGSS/11.15	LR,SS		25	1190.48	**30.4.17**	500		**25**	-		
	(ii) 1 No. 132kV bay at 220kV GSS Nimbahera	CBAY/11.15	LR,SS			59.70							
	(iii) 132 kV S/C Nimbahera - Bijaipur line	CLIN/11.17	LR,SS	39		490.57			39				
2	(i) 132/33kV, 20/25MVA GSS at **Kanera (Chittorgarh)**	CGSS/12.08	LC,LR,VR		25	1223.28	**25.3.17**	500			-		
	(ii) 132kV Nimbahera - Kanera line	CLIN/12.10	LC,LR,VR	12		345.88							
	(iii) 1 No. 132kV bay at 132kV GSS Bijaipur	CBAY/12.06	LC,LR,VR			59.83							
3	(i) 132kV, 2x50 MVA GIS S/S at **New Jhotwara** (Jaipur) (Turnkey)	CGSS/07.01	LC,LR		2x50	6980.43	**28.10.17**	1000		100	-		
	(ii) LILO of 132kV VKI - Vaishali Nagar line to New Jhotwara (Turnkey) by 132kV 1200Sqmm XLPE cable	CLIN/07.01	LC,LR	5					5				
4	(i) 132 kV GSS at **Bapini (District – Jodhpur**	CGSS/14.16	VR, LR, LC		25	1196.56	**4.3.17**	500			-		
	(ii) 132 kV S/C Line from 220/132 kV GSS Aau- Bapini	CLIN/14.03	VR, LR, LC	34		582.44	**4.3.17**						
	(iii) 132 kV Feeder bay at 220/132 kV GSS Aau	CBAY/14.01	VR, LR, LC			51.54	**4.3.17**						
5	(i) 132/33kV, 20/25MVA GSS at **Mokhampura (Pratapgarh)**	CGSS/14.10	VR, LR, LC		25	1676.95	**17.1.17**	200			-		
	(ii) LILO of 132kV S/C Pratapgarh - Dalot line at Mokhampura (Pratapgarh)	CLIN/14.09	VR, LR, LC	17			**17.1.17**						
6	(i) 132/33kV, 20/25MVA GSS at **Joojhpura (Udaipur)**	CGSS/14.12	VR, LR, LC		25	1595.72	**27.1.17**	200			-		

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								Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
									Revised			Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
	I					2	4						
	(ii) 132kV S/C Joojhpura (Udaipur) - Bhinder (132kV GSS) line	CLIN/14.11	VR, LR, LC	20			**27.1.17**						
	(iii) 132kV bay at Bhinder	CBAY/14.05	VR, LR, LC				**27.1.17**						
7	(i) 132/33kV, 20/25MVA GSS at **Balicha (Udaipur)**	CGSS/14.13	VR, LR, LC		25	1507.42	**14.3.17**	600			-		
	(ii) LILO of 132kV S/C Madri - Jawar mines line at Balicha (Udaipur)	CLIN/14.12	VR, LR, LC	18			**14.3.17**						
8	(i) 132/33kV, 20/25MVA GSS at **Desuri (Distt. Pali)**	CGSS/14.15			25	1766.5	**28.2.17**	100			-		
	(ii) 132kV S/C Bali - Desuri line	CLIN/14.17	VR, LR, LC	30			**28.2.17**						
	(iii) 1 No. 132kV bay at 220 kV GSS Bali	CBAY/14.07					**28.2.17**						
9	(i) 132/33kV, 20/25MVA GSS **at Mamoni (Distt. Baran)**	CGSS/14.17			25	1865.43	**30.3.17**	700			-		
	(ii) 132kV S/C Kelwara - Mamoni line	CLIN/14.18	VR, LR, LC	25			**30.3.17**						
	(iii) 1 No. 132kV bay at 132 kV GSS Kelwara	CBAY/14.08					**30.3.17**						
10	(i) 132/33 kV, 20/25 MVA **substation at Dadabari**	CGSS/15.02	LC, LR		25	1443.58	**30.3.17**	800			-		
	(ii) LILO of 132 kV Sakatpura- I/A -II line on Narrow Base and Monopole Towers	CLIN/15.02	LC, LR	3		716.52	**30.3.17**						
11	(i) 132/33 kV, 20/25 MVA GSS at **Water Works Sanwali Road, Sikar**	CGSS/15.07	LC, LR		25	1443.58	**31.3.17**	900			-		
	(ii) LILO of 132kV S/C Sikar-Ranoli line	CLIN/15.07	LC, LR	2		30.49	**31.317**						
12	(i) 132/33 kV, 20/25 MVA substation at **Sangarh**	CGSS/16.06	VR, LR, LC		25	1439.4	**26.2.17**	600	-		-	-	
	(ii) LILO of 132 kV Jaisalmer-Sheo line at Sangarh	CLIN/16.11	VR, LR, LC	4		61.03	**26.2.17**	10	-		-	-	
13	(i) 132/33 kV, 20/25 MVA **substation at Kitasar**	CGSS/16.08	VR, LR, LC		25	1439.4	**25.2.17**	600	-		-	-	
	(ii) LILO of 132 kV Sri Dungargarh-Ratangarh line	CLIN/16.13	VR, LR, LC	6		91.55	**25.2.17**	25	-			-	
14	**(i) 132/33 kV, 20/25 MVA GSS at Tatarsar**	CGSS/16.09	VR, LR, LC		25	1439.4	**17.01.18**	1000		25	-	-	
	(ii) LILO of 132 kV Padampur-Sri Ganganagar line	CLIN/16.14	VR, LR, LC	12		183.11	**17.01.18**		12			-	
15	(i) 132/33 kV, 20/25 MVA **GSS at Marena**	CGSS/16.13	VR, LR, LC		25	1439.4	**18.12.17**	600		25	-	-	
	(ii) LILO of Dholpur-Rajakhera line	CLIN/16.16	VR, LR, LC	10		152.59	**05.09.17**	100	10			-	
16	(i) 132/33 kV, 20/25 MVA GSS at **Chouth Ka Barwara**	CGSS/16.17	VR, LR, LC		25	1439.4	**29.3.17**	600			-	-	
	(ii) LILO of 132 kV Sawai Madhopur-Tonk line	CLIN/16.18	VR, LR, LC	10		152.59						-	
17	(i) 132/33 kV, 20/25 MVA GSS **at Nanta**	CGSS/16.20	VR, LR, LC		25	1439.4	**29.3.17**	500	-		-	-	
	(ii) LILO of 132 kV S/C Sakatpura-Talera Line	CLIN/16.20	VR, LR, LC	4		61.04			-			-	

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								Provision Plan (Tentative)	Physical Targets Revised		Provision Plan (Tentative)	Physical Targets Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
	1					2	4						
18	(i) 132/33 kV, 20/25 MVA GSS at **Keshoraipatan**	CGSS/16.22	VR, LR, LC		25	1439.4	**12.10.17**	900		25	-		
	(ii) LILO of Kota-Lakheri-Sawai Madhopur Ckt-I line	CLIN/16.22	VR, LR, LC	14		213.63		100	14				
19	(i) 132/33 kV, 20/25 MVA GSS at **Bhopalsagar**	CGSS/16.23	VR, LR, LC		25	1386.7	**03.01.2018**	1000		25	-		
	(ii) 132 kV S/C Kapasan-Bhopalsagar line	CLIN/16.35	VR, LR, LC	15		257.95	2017-18	100	15				
	(iii) 132 kV feeder bay at 132 kV GSS Kapasan	CBAY/16.13	VR, LR, LC			52.7	2017-18	10					
20	(i) 132/33 kV, 20/25 MVA GSS at **Bhamatsar (Distt. Bikaner)**	CGSS/15.30	VR, LR, LC		25	1443.58	**29.01.2018**	1500		25	-		
	(ii) LILO of 132 kV S/C Deshnok- Nokha line	CLIN/15.24	VR, LR, LC	16		441.6			15				
21	(i) 132 kV GSS at **RIICO Growth Centre, Hamirgarh** (Distt. Bhilwara)	CGSS/16.04	VR, LR, LC		25	1439.4	**10.11.17**	1200		25	-		
	(ii) LILO of existing 132kV Hamirgarh-Nitin Spinners line upto 132 kV GSS RIICO Growth Centre, Hamirgarh (4 kM)	CLIN/16.08	VR, LR, LC	8		122.07			8				
	Work associated with 220KV GSSs												
22	**JODHPUR CITY EHV NETWORK STRENTHENING SCHEME-I IJDENSS-II** Lines associated with 220 kV GSS Barli.		SS,LC										
	(i) LILO of existing 132 kV S/C Jodhpur-PS8 line at Barli	CLIN/09.32	SS,LC	3		42.20	2017-18	100	3		300		
	(ii) LILO of existing 132 kV CHB-Soorsagar line at Barli	CLIN/09.33	SS,LC	14		144.97	**14.1.17**						
	(iii) LILO of existing 132 kV S/C Tinwari-Soorsagar line at 400kV GSS Jodhpur.	CLIN/09.34	SS,LC	37		514.91	2018-19					37	
23	Strengthning 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)	CLIN/09.35	SS	16		969.47	2018-19	400	16		400		
	(ii) Construction of 132kV Bus coupler bay at 220kV GSS Jodhpur.	CBAY/09.09	SS			64.51	2017-18						
24	(i) LILO of 132 kV S/C Beawar-Nasirabad line at proposed 220 kV GSS Jethana (10.98ckM commissioned)	CLIN/11.22	LR,LC	11		107.16	**28.06.2017**	200	11		-		
	(ii) 132 kV S/C line from 220 kV GSS Jethana to 132 kV GSS Saradhana (15.86 ckM commissioned)	CLIN/11.23	LR,LC	15		2026.59	**15.06.2017**		15				
25	(i) LILO of existing 132 kV S/C Mandalgarh- Begun line at proposed 220 kV GSS Mandalgarh (0.76 ckM commissioned)	CLIN/10.15	LR,SS	1		11.38	**19.08.2017**	5	1		-		
	(ii) LILO of existing 132 kV Bijolia-Beegod line at proposed 220 kV GSS Mandalgarh (0.5ckM commissioned)	CLIN/10.16	LR,SS	1		11.38	**30.05.2017**		1				
26	(i) LILO of 132 kV S/C Debari-Sukher line at proposed 220 kV GSS Amberi (**2.932ckM commissioned)**	CLIN/11.24	LR,SS	3		105.35	**04.08.2017**	50	3		-		
	(ii) LILO of 132 kV S/C Sukher-Seesarma line at proposed 220 kV GSS Amberi (**2.968ckM commissioned)**	CLIN/11.25	LR,SS	3		105.35	**05.08.2017**		3				
27	**(i) 132kV D/C line from 220kV GSS Niwana to 132kV GSS Govindgarh (28.286ckM COMM.)**	CLIN/13.05	VR, LR, LC	18		254.32	**08.02.2017**	100	18		-		
	(ii) 2 No. 132kV bay at 132kV GSS Govindgarh	CBAY/13.02	VR, LR, LC			118.76							
28	**(i) 132 kV S/C PS2 - Kanasar (To be erected on D/C towers) (28.286ckM Comm.)**	CLIN/09.38	ES	12		199.82	**22.09.2017**	100	12		50		

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								Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
									Revised			Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
	1					2	4						
	(ii) 132 kV D/C PS3 - Kanasar line	CLIN/09.39	ES	23		231.54	2017-18/ 2018-19		23				
29	132kV D/C line from 220kV Chonkarwada to 132kV GSS Bhusawar (Revised)	CLIN/10.17	LR,SS	34		504.24	2018-19	200	34		200		
30	LILO of 132kV S/C Bansur-Narainpur line at 220 kV GSS Bansur alongwith 2 No. 132kV terminal bays at 220kV GSS Bansur (Revised0	CLIN/10.24	LR,SS,LC	6		229.22	2018-19	75	6		100		
	Normal Development Works												
31	(i) 132/33kV, 1x25 MVA GSS Mandrayal (Karauli)	CGSS/09.23	LR,VR		25	2006.46	2017-18/ 2018-19	500		25	300		
	(ii) 132 kV S/C Karauli -Mandrayal line with 132 kV GSS Mandrayal (Karauli)	CLIN/09.25		36					36				
	(iii) 1 No. 132kV bay at Karauli	CBAY/09.11											
32	(i) 132/33 kV, 20/25 MVA GSS **Chhatargarh (Distt. Bikaner)**	CGSS/13.05	VR, LR, LC		25	1224.06	**15.02.2018**	1000		25	200		
	(ii) 132kV S/C Khajuwala- Chhatargarh line (comm. 53.953 ckM)	CLIN/13.07	VR, LR, LC	54		852.61			54				
	(iii) 1 No. 132kV bay at 132kV GSS Khajuwala	CBAY/12.13	VR, LR, LC			59.38							
33	(i) 132kV S/C Galifa - Sata line.	CLIN/13.08	VR, LR, LC	50			2018-19	400	50		400		
	(ii) 1 No. 132kV bay at 132kV GSS Galifa	CBAY/13.05	VR, LR, LC			997.72	2018-19						
	(iii) 1 No. 132kV bay at 132kV GSS Sata	CBAY/13.06	VR, LR, LC				2018-19						
34	(i) Construction of 132kV S/C Nokha Daiya - Khajuwala line	CLIN/12.20	SS,LC	81		955.99	2017-18	500	81		100		
	(ii) 1 No. 132kV bay at 132kV GSS Nokha Daiya	CBAY/12.12	SS,LC			59.85	2017-18						
	(iii) 1 No. 132kV bay at 132kV GSS Khajuwala	CBAY/12.13	SS,LC			59.85	2017-18						
35	(i) 132/33kV, 20/25MVA GSS at Gogelaw (Nagaur)	CGSS/14.06	VR, LR, LC		25	1705.21	2017-18/ 2018-19	500		25	400		
	(ii) LILO of 132kV Nagaur - Khinvsar line	CLIN/14.05	VR, LR, LC	32					32				
36	LILO 132kV Jodhpur-Baori line for 132 kV Jhalamand with 132kV GSS at Jalamand (Jodhpur)	CLIN/14.14	LC,LR	4	25	1078.83	Upgraded to 220kV GSS Jhalamand 31.3.17	50			-		
37	**Jaipur City EHV Network Strengthening Scheme-IV (Phase-I)**												
	132kV Interconnection												
	(i) 132 kV Hybrid GIS Bay at Jawahar Nagar (Jaipur)	CBAY/14.09	LR,SS			269.84	2018-19/ 2019-20	200			400		
	(ii) 132 kV S/C Cable system between 132 kV MNIT and 132 kV Substation Jawahar Nagar	CLIN/14.16	LR,SS	6		2251.67						6	
	Interconnections for 220 kV GSS Nawalgarh (RVPN Scope)												
38	(i) 132kV D/C Nawalgarh (220kV GSS) - Nawalgarh (132kV GSS) line with 2 Nos. 132kV feeder bays at 132kV GSS Nawalgarh	CLIN/08.04	SS	23		624.73	2017-18	500	23		200		
	(ii) 132kV D/C portion of above line emanating from 220kV GSS Nawalgarh		SS	7.2			2017-18		7.2				
39	(i) 132 kV S/C Nawalgarh(220 kV) - Kumawas line	CLIN/08.05	SS	16.09		2648	2017-18		16.09				
	(ii) 1No. 132kV bay at Kumawas.	CBAY/08.06	SS				2017-18						
40	(i) 132 kV S/C Nawalgarh(220 kV) - Gudagorji line	CLIN/08.06	SS	28.7			2017-18						

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								Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
									Revised			Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
	1					2	4						
	(ii) 1No. 132kV bay at Gudagorji	CBAY/08.07	SS				2017-18						
41	(i) 132 kV D/C portion of line emanating from 220 kV GSS Nawalgarh	CLIN/08.07	SS	7.2			2017-18						
	(ii) 1No. 132kV bay at Nawalgarh	CBAY/08.08	SS				2017-18						
42	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)	CLIN/11.33	ES			141.83	2017-18	Incl in 220kV scheme			Incl in 220kV scheme		
	Normal Development works												
43	**Interconnecting line of 220KV GSS Chhatargarh**												
	132 kV D/C line from proposed 220 kV GSS Chhatargarh to existing 132 kV GSS Loonkaransar	CLIN/16.10	ES, LR	154		2554.69	2018-19	500	-		600	154	
44	(i) 132/33 kV, 20/25 MVA substation at Bana Ka Bas	CGSS/16.07	VR, LR, LC		25	1439.4	2017-18	1000		25	300	-	
	(ii) LILO of 132 kV S/C Tinwari-Osian line	CLIN/16.12	VR, LR, LC	40		610.38	2017-18		40			-	
45	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]**	CLIN/15.01	LC,SS	3		996.15	Target yet to be decided	100			-	3	
46	(i) 132/33 kV, 20/25 MVA GSS at Nathrau	CGSS/16.10	VR, LR, LC		25	1386.7	2017-18	1200		25	200	-	
	(ii) 132 kV S/C Dechu (220 kV GSS)-Nathrau line	CLIN/16.15	VR, LR, LC	20		367.93	2017-18	200	20			-	
	(iii) 132 kV feeder bay at 220 kV GSS Dechu	CBAY/16.10	VR, LR, LC			52.7	2017-18	25				-	
47	(i) 132/33 kV, 20/25 MVA GSS at Gangdhar PS Dug	CGSS/16.16	VR, LR, LC		25	1386.7	2017-18	1200		25	200	-	
	(ii) 132 kV S/C Dug- Gangdhar line	CLIN/16.17	VR, LR, LC	26		478.31	2017-18		26			-	
	(iii) 132 kV feeder bay at 132 kV GSS Dug	CBAY/16.09	VR, LR, LC			52.7	2017-18					-	
48	(i) 132/33 kV, 20/25 MVA GSS at Bera	CGSS/16.18	VR, LR, LC		25	1386.7	2017-18/ 2018-19	1200		25	300	-	
	(ii) 132kV S/C interconnection from 220kV GSS Bali	CLIN/16.38	VR, LR, LC	30		551.9		400	30			-	
	(iii) 132 kV feeder bay at 132 kV GSS Sumerpur	CBAY/16.11	VR, LR, LC			52.7		25				-	
49	(i) 132/33 kV, 20/25 MVA GSS at Baba Ram Mohan Temple	CGSS/16.19	VR, LR, LC		25	1439.4	2017-18	900		25	200	-	
	(ii) LILO of 132 kV Bhiwadi-Khushkhera line	CLIN/16.19	VR, LR, LC	3		45.75	2017-18		3			-	
50	(i) 132/33 kV, 20/25 MVA GSS at Sarola Kalan PS Khanpur	CGSS/16.21	VR, LR, LC		25	1386.7	2017-18	500		25	300		
	(ii) 132 kV S/C Khanpur- Sarola Kalan line	CLIN/16.21	VR, LR, LC	19		349.53	2017-18	100	19				
	(iii) 132 kV feeder bay at 132 kV GSS Khanpur	CBAY/16.12	VR, LR, LC			52.7	2017-18	25					
51	(i) 132/33 kV, 20/25 MVA GSS at Chordi	CGSS/	VR, LR, LC		25	1443.58	2018-19	500			600		25
	(ii) LILO 132kV S/C Bagidora-Mahi Ph-2 line	CLIN/15.26	VR, LR, LC	20		353.51						20	

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								Provision Plan (Tentative)	Physical Targets Revised		Provision Plan (Tentative)	Physical Targets Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
	1					2	4						
52	**Interconnection of 220KV GSS Kushlana**												
	(i) 132 kV D/C line from proposed 220 kV GSS Halasar Kushlana (Sardarshahar) to 132 kV GSS Patlisar Fanta	CLIN/16.41	VR, LR, LC	56		823.34	2018-19	100	-		200	56	
	(ii) LILO of existing 132 kV S/C Sardarshar - Rajiasar line at proposed 220 kV GSS Kushlana (Sardarshahar) Halasar	CLIN/16.42	VR, LR, LC	18		265.41	2018-19	100	-		100	18	
53	(i) 132/33 kV, 40/50 MVA GSS at Dhanodi Industrial Area (Distt. Jhalawar)		VR, LR, LC		50	1549.52	2017-18	1300		50	200		
	(ii) LILO of existing 132 kV S/C Jhalawar - Aklera line		VR, LR, LC	3			2017-18		3				
54	(i) 132/33 kV, 20/25 MVA GSS at Kuwa Khera (Distt. Chittorgarh)		VR, LR, LC		25	1987.13	2017-18	1200		25	400		
	(ii) LILO of existing 132 kV S/C RAPP- Gandhi Sagar at Kuwa Khera (Distt. Chittorgarh)		VR, LR, LC	40			2017-18		40				
55	(i) 132/33 kV, 40/50 MVA GSS at RIICO Dholpur (Distt. Dholpur)		VR, LR, LC		25	1516.56	2017-18	1000		25	200		
	(ii) LILO of existing 132 kV S/C Dholpur- Mania line at 132kV RIICO Dholpur (Distt. Dholpur)		VR, LR, LC	6			2017-18		6				
56	(i) 132/33kV 20/25 MVA GSS at Dablana P.S. Hindoli (Bundi)		VR, LR, LC		25	1841.95	2018-19	1000			500		25
	(ii) 132kV S/C Hindoli- Dablana line		VR, LR, LC	24			2018-19					24	
	(iii) 132kV Bay at 132kV GSS Hindoli		VR, LR, LC				2018-19						
57	Up-rating and Refurbishment of existing 132kV Lines using HTLS Conductor **(PSDF funded schemes)**		SS										
	(a) 132kV HPR-VKIA with LILO at Vaisali Nagar			38.552		2480	2018-19	100			1000	38.552	
	(b) 132kV VKIA - 220kV VKIA interconnection			5.718			2018-19					5.718	
	(c) 132kVMansarovar- Chambal line			7.546			2018-19					7.546	
	New start 2017-18												
58	(i) 132/33 kV, 20/25 MVA GSS at Nahargarh (Distt. Baran)		VR, LR, LC		25	1746.97	2018-19/ 2019-20	200	-		700		25
	(ii) 1 No. 132kV bay at 132kV GSS Atru												
	(iii) 132 kV S/C Atru-Nahargarh line (22ckM)		VR, LR, LC	22					-			22	
59	(i) 132/33 kV, 20/25 MVA GSS at Bari (Distt. Dholpur)		VR, LR, LC		25	1735.85	2018-19/ 2019-20	200	-		700		25
	(ii) LILO 132kV Dholpur-Baseri line at Bari (26ckM)		VR, LR, LC	26					-			26	
60	(i) 132/33 kV, 20/25 MVA GSS at Bamanwas (Distt. Sawaimadhopur)		VR, LR, LC		25	1763.44	2018-19/ 2019-20	200	-		700		25
	(ii) 1 No. 132kV bay at 132kV GSS Gangapurcity												
	(iii) 132kV S/C Gangapurcity (220kV) - Bamanwas line (23 ckM)		VR, LR, LC	23					-			23	
61	(i) 132/33 kV, 20/25 MVA GSS at Kotri (Distt. Bhilwara)		VR, LR, LC		25	1654.8	2018-19/ 2019-20	200	-		700		25
	(ii) 132kV S/C Bigod - Kotri line (20 ckM)		VR, LR, LC	20					-			20	
62	(i) 132/33 kV, 20/25 MVA GSS at Dhoriya Churaha (Distt. Chittorgarh)		VR, LR, LC		25	1465.69	2018-19/ 2019-20	200	-		700		25
	(ii) LILO of 132 kV Nimbahera - Mangalwar line at Dhoriya Churaha (6 ckM)		VR, LR, LC	6					-			6	
63	(i) 132/33 kV, 20/25 MVA GSS at Chohtan (Distt. Barmer)		VR, LR, LC		25	1878.73	2018-19/ 2019-20	200	-		700		25
	(ii) 1 No. 132kV bay at 132kV GSS Sawa												

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								Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
									Revised			Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
	1					2	4						
	(ii) 132 kV S/C Sawa- Chohtan line (30ckM)		VR, LR, LC	30					-			30	
64	(i) 132/33 kV, 20/25 MVA GSS at Fatehgarh (Distt. Hanumangarh)		VR, LR, LC		25	1654.8	2018-19/ 2019-20	200	-		700		25
	(ii) LILO of 132 kV S/C Suratgarh - Pilibanga- Hanumangarh line at Fatehgarh (20ckM)		VR, LR, LC	20					-			20	
65	(i) 132/33 kV, 20/25 MVA GSS at RD 710 (Dist.Bikaner)		VR, LR, LC		25	1600.71	2018-19/ 2019-20	200	-		700		25
	(ii) LILO of 132kV Nokha Daiya- Khajuwala line at RD 710 (16ckM)		VR, LR, LC	16					-			16	
66	(i) 132/33 kV, 20/25 MVA GSS at Bakra(Distt. Jalore)		VR, LR, LC		25	1573.75	2018-19/ 2019-20	200	-		700		25
	(ii) LILO of 132 kV Jalore- Sayla line at Bakra (14ckM)		VR, LR, LC	14					-			14	
67	(i) 132/33kV, 20/25 MVA GSS at Patan (Ajmer)		VR, LR, LC		25	1796.38	2018-19/ 2019-20	200	-		700		25
	(ii) 1 No. 132kV bay at 132kV GSS Dudu												
	(iii) 132kV S/C Dudu- Patan line(50ckM)		VR, LR, LC	50					-			50	
68	**8 Nos. 132kV bays at various existing RVPN's GSSs required for PPP projects**												
	(i) 1 No. 132kV bay at 132kV GSS at Malpura for 132kV Malpura - Peeplu line associated with 132kV GSS Peeplu executing on PPP mode		-	-	-	70	2018-19	65	-		5	-	
	(ii) 1 No. 132kV bay at 132kV GSS at Salumber for 132kV Bambora - Salumber line associated with 132kV GSS Bambora executing on PPP mode		-	-	-	70	2018-19	60	-		10	-	
	(iii) 1 No. 132kV bay at 132kV GSS at Undoo for 132kV Baytu - Undoo line associated with 132kV GSS Baytu executing on PPP mode		-	-	-	70	2018-19	60	-		10	-	
	(iv) 1 No. 132kV bay at 220kV GSS at Dhorimanna for 132kV Ramji Ki Gol - Dhorimanna (220KV) line associated with 132kV GSS Ramji Ki Gol executing on PPP mode		-	-	-	70	2018-19	60	-		10	-	
	(v) 1 No. 132kV bay at 220kV GSS at Jalore (220kV) for 132kV S/C Jalore (220KV) - Ahore (132kV) line associated with 132kV GSS Ahore executing on PPP mode		-	-	-	70	2018-19	60	-		10	-	
	(vi) 1 No. 132kV bay at 132 kV GSS at Loonkaransar for 132kV S/C Shekhsar-Loonkaransar line associated with 132kV GSS Shekhsar executing on PPP mode		-	-	-	70	2018-19	60	-		10	-	
	(vii) 1 No. 132kV bay at 220 kV GSS at Dechu for 132kV S/C Dechu - Rajmathai line associated with 132kV GSS Rajmathai executing on PPP mode		-	-	-	70	2018-19	60	-		10	-	
	(viii) 1 No. 132kV bay at 220 kV GSS at Phalodi for 132kV S/C Phalodi - Bengtikalan line associated with 132kV GSS bengtikalan executing on PPP mode		-	-	-	70	2018-19	60	-		10	-	
69	LILO of 132 kV S/C Aklera- Manohar Thana line at 220kV GSS Aklera (Proposed)			20		271.24	2018-19	Incl. in 220kV Aklera	28		Incl. in 220kV Aklera		
70	(i) 132/33 kV, 20/25 MVA GSS at Bahadurpur		VR, LR, LC		25	1465.69	2018-19/ 2019-20	100			800		25
	(ii) LILO of 132kV Kishangarh Bas-Alwar line at Bahadurpur		VR, LR, LC	6								6	

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								Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
									Revised			Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
	1					2	4						
71	(i) 132/33 kV, 20/25 MVA GSS at Telco Circle		VR, LR, LC		25	1465.69	2018-19/ 2019-20	100			800		25
	(ii) LILO of 132kV Alwar- Bansur line at Telco Circle		VR, LR, LC	6								6	
72	(i) 132/33 kV, 20/25 MVA GSS at Khairthal		VR, LR, LC		25	1438.68	2018-19/ 2019-20	100			800		25
	(ii) LILO of 132kV S/C Kishangarhbas- Mundawar line at Khairthal		VR, LR, LC	4								4	
73	New 132 kV Schemes (to be identified) (Including land cost for land bank & PPP schemes and their priliminary boundary wall works etc)		-	-	-			500	-		1000	-	
74	Carried Over Liabilities (Civil works & Bal.Elect. Works - 132kV) of Sub Stations & Lines Commissioned		-	-	-				-			-	
	(a) CE (T&C), Jaipur Zone							400			400		
	(b) CE (T&C), Jodhpur Zone							600			600		
	(c) CE (T&C),Ajmer Zone							400			400		
	(d) CE (Civil), Jaipur							200			200		
	(e) CE (Civil), Jodhpur							400			400		
	IV. Total (132 kV)							**37685**	**778.29**	**600**	**20825**	**612.82**	**375**
	Target 132 kV - WORKING								**778.29**	**600/20**		**612.82**	**375/15**
	Annual Plan target								**346**	**475/16**		**317**	**375/15**
V	Capacitor banks (MVAR)		-	-	-				-			-	
	(a) CE (T&C), Jaipur Zone							300			400		
	(b) CE (T&C), Jodhpur Zone							1400			800		
	(c) CE (T&C),Ajmer Zone							300			400		
	(d) CE (Civil), Jaipur							250			200		
	(e) CE (Civil), Jodhpur							250			200		
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			4800		
	(b) CE (T&C), Jodhpur Zone							7400			4900		
	(c) CE (T&C),Ajmer Zone							7400			4800		
	(d) CE (Civil), Jaipur							300			200		
	(e) CE (Civil), Jodhpur							400			200		
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							1600			1600		
	(b) CE (T&C), Jodhpur Zone							1800			1600		
	(c) CE (T&C),Ajmer Zone							1600			1600		
VIII	Automation/ SCADA solutions, RTU's/ BCU's, related primary equipments upgradations, communication interfaces/ channels (under ULDC up gradation of existing S/S)		-	-	-			2000	-		1500	-	

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								Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
									Revised			Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
	1					2	4						
IX	(i) Supply, installation, implementation , customization and integration of SAP ERP solution in RVPN		-	-	-				-			-	
	(ii) Purchase of IT hardwares, associated standard software, Computer furniture, networking equipment, internet connectivity etc.		-	-	-				-			-	
	(iii) Creation of Data Centre (San storage 2 , Racks , Server, Civil works , Networking		-	-	-			2300	-		1165	-	
	(iv) Capital cost on IT/non-IT goods for Integrated MIS & Computerisation in RVPN		-	-	-		As ongoing scheme		-			-	
	(v) Creation of IT centre at Chambal including civil, electrical works, IT & Commonication related works , furniture and allied works.		-	-	-				-			-	
X	RMU of equipments & protection schemes of RVPN (Scheme -II & III)		-	-	-		As ongoing scheme	500	-		500	-	
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)		-	-	-			200	-		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		500	-		200	-	
XIII	Old miscelleneous works		-	-	-			2400	-		1000	-	
XIV	Allocation by CCOA (For Admn. & Residential builings, T&P, purchase of vahicles& other administrative works etc.)		-	-	-			1500	-		1500	-	
XV	**Other works (excluding deposit works)**		-	-	-				-			-	
	PSDF funded schemes		-	-	-				-			-	
1	(i) Smart Transmission Operation Management System (STOMS)		-	-	-	3000	2018-19	1000	-		1500	-	
	(ii) Communication Back Bone - Smart Transmission Network and Asset Management System (Part-B) STNAM		-	-	-	58687	2018-19/ 2019-20	30000	-		25000	-	
	(iiii) Renewable Energy Integration – Real Time Data Acquisition System for Monitoring & Control of Transmission Grid under Smart Transmission Network and Asset Management System (Part-A1)		-	-	-	19172	2018-19 /2019-20	0	-		7000	-	

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								Provision Plan (Tentative)	Physical Targets		Provision Plan (Tentative)	Physical Targets	
									Revised			Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
	1					2	4						
	(iv) Renewable Energy Integration – Reactive Compensation Elements/ Equipments for Reactive Power Management and Voltage Control for Transmission Grid under Smart Transmission Network and Asset Management System (Part-A2)		-	-	-	48819	2018-19/ 2019-20	0	-		5000	-	
	Total (V to XV)							**70800**			**66265**		
	Total of Transmission Works							**203254**			**148000**		
	Abbreviation Used :-												
	VR : Voltage Regulation Improvement Scheme.	*KfW : a financing institution of Germany*											
	LC : Load Catering Scheme.	*PSDF : Power System development System*	*Mtg. : Metering*										
	SS : System Strengthening Scheme.	*RFD : Result Framework Document*	*Aug. : Augmentation*										