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 9001:2015 Certified Company

No. RVPN/SE(P&P)/XEN –I (P&P))/AE-IV/ F. 295 (Annual Plan 2019-20)/D 220 *Jaipur, Dt.*31-5-19

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 2018-19 and Annual Plan 2019-20 (Proposed).
Ref: This office letter no. 1918 dated 28.03.2018

Kindly refer this office letter no. 1918 dated 28.03.2018 vide which Annual Pan 2018-19 (Proposed) for capital works was circulated having outlay ceiling of Rs. 1500 crore. The Plan size for FY 2018-19 has been revised to Rs. 1226.50 crore (Rs.1206.50 for transmission works + Rs. 20.00 crore for shared generation projects), in compliance to RERC order dated 03.05.2018 & 24.01.2019 [In the matter of approval of Investment Plan for FY 2018-19].

The proposed Annual Plan for FY 2019-20 is of Rs. 1700.00 crore (Rs.1680.00 for transmission works + Rs. 20.00 crore for shared generation projects) including all the schemes approved by BoD/WTD, after last Plan circulated vide this office letter no. 1918 dated 28.03.2018.

In view of above, a copy of the revised Annual Pan for FY 2018-19 and FY 2019-20 (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**It is to be noted that the earlier Annual Plan circulated vide this office letter no. 1918 dated 28.03.2018 have now been replaced by this new Annual Plan.**

Encl: As above.

(S.K.Baswal)
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.

30/5/19

Chief Engineer (PP&D)

Rajasthan Rajya Vidyut Prasaran Nigam Limited

Annual Plan of RVPN 2018-19 (Revised) & 2019-20 (Proposed)

(a) Financial targets 2018-19 (Revised) & 2019-20 (Proposed)

(Rs. In crores)

S. No.	Head	Plan Outlay 2018-19 (Proposed)	Plan Outlay 2018-19 (Revised)	Plan Outlay 2019-20 (Proposed)
1.	Generation (Shared generating projects)	20.00	20.00	20.00
2	Transmission Works	1480.00	1206.50	1680.00
	Total	**1500.00**	**1226.50**	**1700.00**

(b) Physical Targets 2018-19 (Revised) & 2019-20 (Proposed)

S. No	Particulars	Unit	Target 2018-19 (Proposed)	Target 2018-19 (Revised)	Target 2019-20 (Proposed) (Tentative)
3	400 kV Lines	ckMs	740	681	820
4	400 kV S/S	MVA	1630	1500	0
		Nos.	**2**	**2**	**0**
5	220 kV Lines	ckMs	230	175	292
6	220 kV S/S	MVA	640	320	640
		Nos.	**3**	**2**	**3**
7	132 kV Lines	ckMs	317	289	419
8	132 kV S/S	MVA	375	375	300
		Nos.	**15**	**15**	**12**
9	Augmentation 400/220/132kV	MVA	1500	2000	2500
10	Capacitor Bank	MVA R	300	50	100

Annexure-A

Transmission - Details of Plan Provisions & Physical Targets for Annual Plan 2018-19 (Revised) & 2019-20 (Proposed)

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 2018-19 (Revised)			Annual Plan 2019-20 (Proposed)		
								Provision Plan (Revised)	Physical Targets Revised		Provision Plan (Proposed)	Physical Targets Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
0	1	2	3	4	5	6	7	8	9	10	11	12	13
I	**765kV Schemes**												
	New start 2018-19												
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	2020-21	100	-	-	4000	-	-
	I. Total (765kV)							**100**	**0**	**0**	**4000**	**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 [Ckt-I has been commissioned on 31.3.2018 (105.912 Ckm)]	CLIN/09.01	ES	213	-	11603.74	**11.04.18**	100	106	-	-	-	-
	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	15093.49	**12.10.2018**	8000	-	815	500	-	-
	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	**09.08.18**	100	99	-	-	-	-
4	400 kV D/C Bhilwara-Ajmer (Twin Moose) Line	CLIN/09.06	ES	320	-	13923.6	**24.01.18**	10	-	-	-	-	-
	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**	170	-	-	-	-	-
	400kV Interconnecting Lines (Suratgarh Super Critical TPS Evacuation) :												
6	400 kV D/C Suratgarh TPS- Babai (Jhunjhunu)(Quad Moose) Line (Cost revised)	CLIN/09.24	ES	480	-	61317.00	2019-20	3200	-	-	2000	480	-
	Transmission System for New Solar and Wind Power Plants in Jaisalmer, Barmer & Jodhpur Districts												
7	Augmentation at 400kV GSS Barmer												
	(i) 1x125 MVAR, 400kV Shunt Reactor (Bus type) at 400kV GSS Barmer	CGSS/14.01	ES	-	-	3177.51	2018-19/ 2019-20	2500			1600		
	(ii) 400kV bays for 400kV D/C Barmer-Bhinmal (PG) line		ES	-	-								
8	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/ 2019-20	200			2000		

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 2018-19 (Revised)			Annual Plan 2019-20 (Proposed)		
								Provision Plan (Revised)	Physical Targets Revised		Provision Plan (Proposed)	Physical Targets Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
0	1	2	3	4	5	6	7	8	9	10	11	12	13
	(ii) 400kV bays at Jodhpur (New) for LILO of one ckt. of 400kV D/C Raj West LTPS-Jodhpur line.		ES	-	-								
	400kV Interconnecting Lines (New Solar & Wind Plants) :												
9	400 kV D/C Ramgarh-Bhadla line (Twin Moose) (Revised)	CLIN/09.09	ES	320	-	15887.78	2019-20	4000			2000	320	
10	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-I)** (Revised) **(404.554ckM)**	CLIN/09.13	ES	405	-	19362.14	09.01.2019	8200	405		500		
11	400 kV D/C Barmer-Bhinmal (PGCIL) line (Twin Moose) **(KfW)**	CLIN/09.14	ES	280	-	21523.00	2018-19	3200	280		300		
12	(i) 400kV D/C Akal-Jodhpur (New) line (Quad Moose) RVPN SCOPE **(446.986Ckm)**	CLIN/09.15	ES	447	-	56784.04		2000	447		100		
	(ii) (Line conductor for 400kV D/C Akal-Jodhpur (New) line (Quad Moose) is in the scope of ADB)				-		21.12.2018						
13	**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	9.7.18	2200	1	-	-	-	-
	(ii) 400kV bay equipments work at 765/400kV Anta GSS	CBAY/09.05	ES	-	-	1811.54	9.7.18		-	-	-	-	-
	(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	9.7.18		45	-	-	-	-
	Supplementary Transmission System for Power Evacuation Scheme of Solar Power Projects in Jaisalmer, Barmer, Jodhpur and Bikaner Districts (KfW funded schemes)												
14	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	6000	-	1000	1000	-	-
15	400 kV D/C Jaisalmer-2 -Barmer line **(233.962ckM)**	CLIN/11.09	ES	234		13498.12	28.01.2019	4500	234	-	500	-	-
16	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	1000	-	-	200	-	-
17	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	300	-	-	200	-	-
	New Sub-transmission system for evacuation of power from new Solar & Wind power plants in westerrn Rajasthan (KfW funded schemes)												
18	LILO of one ckt. Of under construction 400kV D/C Akal- Jodhpur line at 400 kV GSS Jaisalmer-2 **(KfW funded schemes)**	CLIN/17.09	ES	20		2691.71	2019-20	100	-	-	1000	20	-
19	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)**	CBAY/17.03	ES			871.76	2019-20	500	-	-	700	-	-
20	Augmentation at existing 400 kV GSS Akal [400/220kV, (+) 2x500MVA & (-) 2x315 MVA] **(KfW)** (Revised)	CBAY/16.18	ES		2x500	3912.7	2019-20	50	-	-	3000	-	1000
21	**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 2018-19 (Revised)			Annual Plan 2019-20 (Proposed)		
								Provision Plan (Revised)	Physical Targets		Provision Plan (Proposed)	Physical Targets	
									Revised			Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
0	*1*	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*
	(i) Schemes-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	CGSS/11.01, CGSS/11.03, CGSS/11.04	SS	-	-	2396	2018-19	100			100		
	(ii) Sceme-II: Scheme of Renovation and Up-gradation of all RVPN substations of 220kV and 400kV to rectify protection related deficiencies (PSDF granted schemes).	AUMI/14.11 & RMUT/14.01 etc	SS	-	-	8985.6	2018-19	2000			500		
	(iii) Installation of 1x25 MVAR, 220kV Bus type Shunt Reactor each at 400KV GSS Akal, 220kV Suratgarh and 220 kV GSS at Bikaner.	AUMI/17.16, 17.17 & 17.18				2277.86	2019-20	50			1500		
	(iv) Installation of 1x125 MVAR Bus Reactor at 400kV GSS Jodhpur and 13x25 MVAR , 220kV Bus Reactor each at 13 Nos (400KV & 220 KV) GSSs					11312.36	2019-20	100			7000		
	II. Total (400 kV)							**48580**	**1617**	**1815**	**24700**	**820**	**1000**
	Target 400 kV - Working								**1617**	**1815**		**820**	**1000**
	Annual Plan target								**681**	**1500/2**		**820**	**NIL**
III	**220kV SCHEMES**												
A	**On-going 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	-	-	-	-	-	-
	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 **(37.2ckM)**	CLIN/09.22	ES	37	-	2043.68	16.01.2019	10	37	-	-	-	-
	(ii) 220 kV D/C Jodhpur (New) - Barli	CLIN/09.27	ES	92	-		2018-19		92	-	5	-	-
	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) (5.486ckM)	CLIN/09.44	ES	6		40.85	22.05.2018	10	6	-	-	-	-
	Supplementary Transmission System for Power Evacuation Scheme of Solar Power Projects in Jaisalmer, Barmer, Jodhpur and Bikaner Districts												
	RVPN scope schemes												
4	LILO of both circuits of 220kV D/C Ramgarh GTPS- Dechu line at 400kV Ramgarh . **Line completed**	CLIN/11.30	ES	1		641.81	2018-19	5	1		2.00		
	Composite Power Evacuation System (Chhabra Super Critical TPS(2x660MW) and Kalisindh TPS (2x600 MW))												
5	LILO 220kV Ajmer-Kishangarh Line at 400kV Ajmer GSS. **(10.694ckM)**	CLIN/09.30	ES	11		408.5	11.09.2018	50	11	-	-	-	-
	Normal development works												

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 2018-19 (Revised)			Annual Plan 2019-20 (Proposed)		
								Provision Plan (Revised)	Physical Targets Revised		Provision Plan (Proposed)	Physical Targets Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
0	1	2	3	4	5	6	7	8	9	10	11	12	13
6	(i) 220 kV S/C Sirohi- Pindwara line	CLIN/11.05	SS	25		1450	2018-19	100	25		50		
	(ii) 1 no.bays at 220kV GSS Sirohi	CBAY/11.06											
	(iii) 1 no.bays at 220kV GSS Pindwara	CBAY/11.07											
7	220 kV S/C Dhod -Danta Ramgarh line (31.380CKM)	CLIN/11.12	LR,SS	31	-	705.07	25.11.2018	150	31	-	-	-	-
	GSSs targetd to be commissioned during 2018-19 [S.No. 8 to 9, 2Nos. /320MVA.]												
	Normal Development Works												
8	(i) 220/132 kV, 1x160 MVA GSS at Halasar (Sardarshahar)(Distt. Churu)	CGSS/16.26	SS, LC, LR		1x160	3360.23	23.10.2018	2000		160	500		
	(ii) LILO of one circuit of 220 kV D/C STPS- Ratangarh line at proposed 220 kV GSS Kushlana (Sardarshahar) (7.240ckM)	CLIN/16.40	SS, LC, LR	7		448.63	26.09.2018	250	7		100		
9	(i) 220/132kV, 1x160MVA GSS at Bherunda (Distt. Nagaur) (Upgrade)	CGSS/13.02	SS,LC,LR		1x160	2477.41	30.10.2018	1000		160	200		
	(ii) 1 No. 220KV bay at Ajmer (400kV)	CBAY/13.13											
	(ii) 220 kV D/C , Ajmer (400kV) - Bherunda line (102.590Ckm)	CLIN/13.02	SS,LC,LR	103		1894.78	29.10.2018		103				
	GSSs targetd to be commissioned during 2019-20 [S.No. 10 to 12, 3Nos. /640MVA.]												
10	(i) 220/132kV, 2x160 MVA GSS at NPH Jodhpur (Up-gradation)	CGSS/11.13	LR,SS		2x160	3213.46	2019-20	300			7000		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						11	
	(iii) 2 Nos. 220kV bays at 220kV GSS basni (Jodhpur)	CBAY/11.12				227.22							
11	(i) 220/132 kV, 160 MVA GSS at Chhatargarh (Upgradation) KfW funded	CGSS/16.05	ES, LR		1x160	3016	2019-20	1000			1500		160
	(ii) 220 kV D/C line from 220 kV GSS Gajner to (U/C) 220 kV GSS Chhatargarh (KfW funded)	CLIN/16.09	ES, LR	200		5411.44	2019-20	1500			3600	200	
12	(i) 220/132kV,1x160MVA GSS at Aklera (New location)	CGSS/17.15	LR,SS		160	3209.72	2019-20	1000			2000		160
	(ii) LILO of 220 kV S/C Jhalawar- Chhabra line at 220kV GSS Aklera (Proposed)	CLIN/17.21	LR,SS	80		2001.88					1800	80	
13	(ii) 220 KV D/C PS_1 / Bajju -Bhadla (U/C 400 KV GSS) line Line charged on 33kV on 08.02.16.	CLIN/11.03	ES	90		2095.12	2018-19 (charged on 33kV on	50	90		10.00		
	Power Evacuation System from new Solar & Wind Power Plants in Western Rajasthan. (KfW funded)												
14	(i) 220kV D/C Akal (400kV)- Jaisalmer-2 (400kV) line	CLIN/17.08	ES	150		4574.25	2019-20	100			2000	150	
	(ii) 2 Nos. 220kV bays at Jaisalmer-2 (400kV)	CBAY/17.02	ES			187.6							
	Normal Development works												

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 2018-19 (Revised)			Annual Plan 2019-20 (Proposed)		
								Provision Plan (Revised)	Physical Targets Revised		Provision Plan (Proposed)	Physical Targets Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
0	*1*	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*
15	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	CLIN/12.24	LR,SS	26		1714.76	2018-19 Line work completed	100	26		200		
	(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				
	New start 2018-19												
16	(i) 220/132kV, 1X160MVA, 132/33kV, 1X20/25MVA GSS at Rawatsar (Distt. Hanumangarh) (Scheme cost 62.20 cr)	CGSS/18.01			160	3013.23	2019-20	200			1933		160
	(ii) LILO of one circuit of existing 220kV D/C STPS - Ratahgarh (220kV)	CLIN/18.02		60		1503.25					1200	60	
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)							500			2000		
C.	220 kV Bus Bar Protection Scheme							1000			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							200			400		
	(b) CE (T&C), Jodhpur Zone							200			600		
	(c) CE (T&C),Ajmer Zone							200			400		
	(d) CE (Civil), Jaipur (for Addl. CE Jaipur/Ajmer/Jodhpur)							400			550		
	Total (220kV)							**10325**			**27050**		
IV	**132kV SCHEMES**												
A	**On-going schemes**												
	Normal Development Schemes												
	GSSs already commissioned during 2017-18												
1	(i) 132/33 kV, 20/25 MVA GSS at **Tatarsar**	CGSS/16.09	VR, LR, LC		25	1439.4	**17.01.18**	400			-		
	(ii) LILO of 132 kV Padampur-Sri Ganganagar line	CLIN/16.14	VR, LR, LC	12		183.11	**17.01.18**						
2	(i) 132/33 kV, 20/25 MVA GSS at **Bhopalsagar**	CGSS/16.23	VR, LR, LC		25	1386.7	**03.01.2018**	200					
	(ii) 132 kV S/C Kapasan-Bhopalsagar line	CLIN/16.35	VR, LR, LC	15		257.95					-		
	(iii) 132 kV feeder bay at 132 kV GSS Kapasan	CBAY/16.13	VR, LR, LC			52.7							
3	(i) 132/33 kV, 20/25 MVA GSS at **Bhamatsar (Distt. Bikaner)**	CGSS/15.30	VR, LR, LC		25	1443.58	**29.01.2018**	200			-		
	(ii) LILO of 132 kV S/C Deshnok- Nokha line	CLIN/15.24	VR, LR, LC	16		441.6							
4	(i) 132/33 kV, 20/25 MVA GSS **Chhatargarh (Distt. Bikaner)**	CGSS/13.05	VR, LR, LC		25	1224.06	**15.02.2018**	200			200		
	(ii) 132kV S/C Khajuwala- Chhatargarh line (comm. 53.953 ckM)	CLIN/13.07	VR, LR, LC	54		852.61							

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								Provision Plan (Revised)	Physical Targets Revised		Provision Plan (Proposed)	Physical Targets Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
0	1	2	3	4	5	6	7	8	9	10	11	12	13
	(iii) 1 No. 132kV bay at 132kV GSS Khajuwala	CBAY/12.13	VR, LR, LC			59.38							
5	(i) 132/33 kV, 20/25 MVA GSS at **Nathrau**	CGSS/16.10	VR, LR, LC		25	1386.7	**30.3.2018**	500			200		
	(ii) 132 kV S/C Dechu (220 kV GSS)-Nathrau line	CLIN/16.15	VR, LR, LC	20		367.93							
	(iii) 132 kV feeder bay at 220 kV GSS Dechu	CBAY/16.10	VR, LR, LC			52.7							
6	(i) 132/33 kV, 20/25 MVA GSS at **Gangdhar PS Dug**	CGSS/16.16	VR, LR, LC		25	1386.7	**19.3.2018**	500			200		
	(ii) 132 kV S/C Dug- Gangdhar line	CLIN/16.17	VR, LR, LC	26		478.31							
	(iii) 132 kV feeder bay at 132 kV GSS Dug	CBAY/16.09	VR, LR, LC			52.7							
7	(i) 132/33 kV, 20/25 MVA GSS at **Bera**	CGSS/16.18	VR, LR, LC		25	1386.7	**31.3.2018**	500			200		
	(ii) 132kV S/C interconnection from 220kV GSS Bali	CLIN/16.38	VR, LR, LC	30		551.9							
	(iii) 132 kV feeder bay at 132 kV GSS Sumerpur	CBAY/16.11	VR, LR, LC			52.7							
8	(i) 132/33 kV, 20/25 MVA GSS at **Baba Ram Mohan Temple**	CGSS/16.19	VR, LR, LC		25	1439.4	**28.3.2018**	300			200		
	(ii) LILO of 132 kV Bhiwadi-Khushkhera line	CLIN/16.19	VR, LR, LC	3		45.75							
9	(i) 132/33 kV, 20/25 MVA GSS at **Sarola Kalan PS Khanpur**	CGSS/16.21	VR, LR, LC		25	1386.7	**29.3.2018**	500			200		
	(ii) 132 kV S/C Khanpur- Sarola Kalan line	CLIN/16.21	VR, LR, LC	19		349.53							
	(iii) 132 kV feeder bay at 132 kV GSS Khanpur	CBAY/16.12	VR, LR, LC			52.7							
10	(i) Construction of 132kV S/C Nokha Daiya - Khajuwala line	CLIN/12.20	SS,LC	84		955.99	**08.03.2018**	50			-		
	(ii) 1 No. 132kV bay at 132kV GSS Nokha Daiya	CBAY/12.12	SS,LC			59.85							
	(iii) 1 No. 132kV bay at 132kV GSS Khajuwala	CBAY/12.13	SS,LC			59.85							
11	(i) 132/33 kV, 40/50 MVA GSS at **Dhanodi Industrial Area (Distt. Jhalawar)**	CGSS/16.27	VR, LR, LC		50	1549.52	**24.3.2018**	500			300		
	(ii) LILO of existing 132 kV S/C Jhalawar - Aklera line	CLIN/16.39	VR, LR, LC	3									
12	(i) 132/33 kV, 40/50 MVA GSS at **RIICO Dholpur (Distt. Dholpur)**	CGSS/17.04	VR, LR, LC		25	1516.56	**30.3.2018**	600			100		
	(ii) LILO of existing 132 kV S/C Dholpur- Mania line at 132kV RIICO Dholpur (Distt. Dholpur)	CLIN/17.05	VR, LR, LC	6									
13	**JODHPUR CITY EHV NETWORK STRENTHENING 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	CLIN/09.32	SS,LC	3		42.20	**5.5.2018**	200			-		
	(ii) 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		-		
14	132 kV D/C PS3 - Kanasar line	CLIN/09.39	ES	23		231.54	**21.05.2018**	50	23		-		
15	132kV D/C line from 220kV Chonkarwada to 132kV GSS Bhusawar (Revised)	CLIN/10.17	LR,SS	34		504.24	2018-19	100			50		
16	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	100			-		
17	**Interconnection of 220KV GSS Halasar (Churu)**												
	(i) 132 kV D/C line from proposed 220 kV GSS Halasar (Sardarshahar) to 132 kV GSS Pathisar Fanta	CLIN/16.41	VR, LR, LC	56		823.34	2019-20	500	56		200		

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								Provision Plan (Revised)	Physical Targets Revised		Provision Plan (Proposed)	Physical Targets Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
0	*1*	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*
	(ii) LILO of existing 132 kV S/C Sardarshar - Rajiasar line at 220 kV GSS Halasar (Distt. Churu)	CLIN/16.42	VR, LR, LC	18		265.41	29.11.2018	100	18		100		
	Interconnections for 220 kV GSS Nawalgarh (RVPN Scope)												
18	(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	26.4.2018	200			600		
	(ii) 132kV D/C portion of above line emanating from 220kV GSS Nawalgarh		SS	7.2									
19	(i) 132 kV S/C Nawalgarh(220 kV) - Kumawas line	CLIN/08.05	SS	16.09		2648	18.7.2018						
	(ii) 1No. 132kV bay at Kumawas.	CBAY/08.06	SS										
20	(i) 132 kV S/C Nawalgarh(220 kV) - Gudagorji line	CLIN/08.06	SS	28.7			31.10.2018		28.7				
	(ii) 1No. 132kV bay at Gudagorji	CBAY/08.07	SS										
18	(i) 132 kV D/C portion of line emanating from 220 kV GSS Nawalgarh	CLIN/08.07	SS	7.2			2018-19		7.2				
	(ii) 1No. 132kV bay at Nawalgarh	CBAY/08.08	SS				2018-19						
21	132 kV S/C Nawalgarh(220 kV) - Udaipurwati line	CLIN/08.07		30			26.7.2018		30				
	GSSs targetd to be commissioned during 2018-19 [S.No. 22 to 36, 15Nos. / 375MVA.]												
	Normal Development Works												
22	(i) 132/33kV, 1x25 MVA GSS **Mandrayal (Distt. Karauli) (Cost Revised)**	CGSS/09.12	LR,VR		25	3428.26	26.04.2018	300		25	200		
	(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											
23	(i) 132/33 kV, 20/25 MVA substation at **Bana Ka Bas**	CGSS/16.07	VR, LR, LC		25	1439.4	30.04.2018	500		25	100		
	(ii) LILO of 132 kV S/C Tinwari-Osian line	CLIN/16.12	VR, LR, LC	40		610.38			40				
24	(i) 132/33kV 20/25 MVA GSS at **Dablana P.S. Hindoli (Bundi)**	CGSS/17.03	VR, LR, LC		25	1841.95	30.06.2018	900		25	200		
	(ii) 132kV S/C Hindoli- Dablana line	CLIN/17.06	VR, LR, LC	24					24				
	(iii) 132kV Bay at 132kV GSS Hindoli	CBAY/17.01	VR, LR, LC										
25	(i) 132/33kV, 20/25MVA GSS at **Gogelaw (Nagaur)**	CGSS/14.06	VR, LR, LC		25	1705.21	18.07.2018	400		25	200		
	(ii) LILO of 132kV Nagaur - Khinvsar line	CLIN/14.05	VR, LR, LC	32					32				
26	(i) 132/33 kV, 20/25 MVA GSS at **RD 710 (Dist.Bikaner)**	CGSS/17.13	VR, LR, LC		25	1600.71	31.07.2018	1200		25	300		
	(ii) LILO of 132kV Nokha Daiya- Khajuwala line at RD 710 (16ckM)	CLIN/17.19	VR, LR, LC	16					16				
27	(i) 132/33 kV, 20/25 MVA GSS at **Bakra (Distt. Jalore)**	CGSS/17.14	VR, LR, LC		25	1573.75	31.07.2018	1000		25	300		
	(ii) LILO of 132 kV Jalore- Sayla line at Bakra (14ckM)	CLIN/17.20	VR, LR, LC	14					14				
	(iii) 132kV Chohtan bay at 132kV GSS	CBAY/17.07											

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								Provision Plan (Revised)	Physical Targets Revised		Provision Plan (Proposed)	Physical Targets Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
0	1	2	3	4	5	6	7	8	9	10	11	12	13
28	(i) 132/33 kV, 20/25 MVA GSS at Fatehgarh (Distt. Hanumangarh)	CGSS/17.12	VR, LR, LC		25	1654.8	11.10.2018	1100		25	300		
	(ii) LILO of 132 kV S/C Suratgarh - Pilibanga- Hanumangarh line at Fatehgarh (20.92ckM)	CLIN/17.18	VR, LR, LC	21					21				
29	(i) 132/33 kV, 20/25 MVA GSS at Dhoriya Churaha (Distt. Chittorgarh)	CGSS/17.10	VR, LR, LC		25	1465.69	12.10.2018	800		25	300		
	(ii) LILO of 132 kV Nimbahera - Mangalwar line at Dhoriya Churaha (3.6 ckM)	CLIN/17.16	VR, LR, LC	4					4				
30	(i) 132/33 kV, 20/25 MVA GSS at Dabi PS Talera (Distt. Bundi)	CGSS/15.32			25	1905.54	25.10.2018	1000		25	300		
	(ii) LILO of RPS-Mandalgarh line for 132 kV GSS Dabi (31.42CKM)	CLIN/15.25		32					32				
31	(i) 132/33 kV, 20/25 MVA GSS at Kotri (Distt. Bhilwara)	CGSS/17.09	VR, LR, LC		25	1654.8	30.10.2018	1000		25	300		
	(ii) LILO of 132kV Bhilwara- RPS-I line at Kotri (21.240 ckM)	CLIN/17.15	VR, LR, LC	21					21				
32	(i) 132/33 kV, 20/25 MVA GSS at Bari (Distt. Dholpur)	CGSS/17.07	VR, LR, LC		25	1735.85	2018-19	800		25	300		
	(ii) LILO 132kV Dholpur-Baseri line at Bari (26ckM)	CLIN/17.13	VR, LR, LC	26					26				
33	(i) 132/33 kV, 20/25 MVA GSS at Bamanwas (Distt. Sawaimadhopur)	CGSS/17.08	VR, LR, LC		25	1763.44	2018-19	800		25	200		
	(ii) 1 No. 132kV bay at 132kV GSS Gangapurcity	CBAY/17.06											
	(iii) 132kV S/C Gangapurcity (220kV) - Bamanwas line (23 ckM)	CLIN/17.14	VR, LR, LC	23					23				
34	(i) 132/33 kV, 20/25 MVA GSS at Bahadurpur	CGSS/17.16	VR, LR, LC		25	1465.69	2018-19	800		25	300		
	(ii) LILO of 132kV Kishangarh Bas-Alwar line at Bahadurpur	CLIN/17.23	VR, LR, LC	6					6				
35	(i) 132/33 kV, 20/25 MVA GSS at Telco Circle	CGSS/17.17	VR, LR, LC		25	1465.69	2018-19	900		25	300		
	(ii) LILO of 132kV Alwar- Bansur line at Telco Circle	CLIN/17.24	VR, LR, LC	6					6				
36	(i) 132/33 kV, 20/25 MVA GSS at Khairthal	CGSS/17.18	VR, LR, LC		25	1438.68	2018-19	800		25	300		
	(ii) LILO of 132kV S/C Kishangarhbas- Mundawar line at Khairthal	CLIN/17.25	VR, LR, LC	4					4				
37	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	CBAY/16.24	-	-	-	70	9.1.2019	30			-		
	(ii) 1 No. 132kV bay at 132kV GSS at Salumber for 132kV Bambora - Salumber line associated with 132kV GSS Bambora executing on PPP mode	CBAY/15.21	-	-	-	70	2.1.2019	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	CBAY/15.22	-	-	-	70	30.8.2018	43			-		
	(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	CBAY/15.23	-	-	-	70	25.1.2019	35			-		
	(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	CBAY/15.24	-	-	-	70	27.05.2018	65			-		
	(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	CBAY/15.25	-	-	-	70	20.09.2018	44			-		

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								Provision Plan (Revised)	Physical Targets Revised		Provision Plan (Proposed)	Physical Targets Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
0	1	2	3	4	5	6	7	8	9	10	11	12	13
	(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	CBAY/15.02	-	-	-	70	4.1.2019	55			-		
	(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	CBAY/15.01	-	-	-	70	11.10.2018	44			-		
38	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	2019-20	100			500	16	
	(ii) Construction of 132kV Bus coupler bay at 220kV GSS Jodhpur.	CBAY/09.09	SS			64.51							
39	Interconnecting line of 220KV GSS Chhatargarh (KfW)												
	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	2019-20	600			1500	154	
40	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	2019-20	50			600	3	
41	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	2019-20	300			2000		
	(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	
42	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	2020-21	0			1500		
	(b) 132kV VKIA - 220kV VKIA interconnection	CLIN/15.01		5.718									
	(c) 132kV Mansarovar- Chambal line			7.546									
43	LILO of 132 kV S/C Aklera- Manohar Thana line at 220kV GSS Aklera U/c)	CLIN/17.22		20		271.24	2019-20	Incl. in 220kV Aklera			200	20	
44	(i) 132kV S/C Galifa - Sata line.	CLIN/13.08	VR, LR, LC	50		997.72	2019-20	400			200	50	
	(ii) 1 No. 132kV bay at 132kV GSS Galifa	CBAY/13.05	VR, LR, LC										
	(iii) 1 No. 132kV bay at 132kV GSS Sata	CBAY/13.06	VR, LR, LC										
45	Uprating of 132kV S/C Reengus - Sikar line (H-Pole, Wolf conductor) (Total cost 1888.93 lacs)												
	(i) 132kV D/C Sikar (220 kV GSS) - Sanwali Road Water Works (132kV GSS) with dismentling of existing 132kV line.	MLIN/17.39		13		432.65	2020-21	329			1500		
	(ii) Uprating of 132kV S/C Sanwali Road Water Works (132kV GSS) - Ranoli line with dismentling of existing 132kV line.	MLIN/17.40		19.5		587.85							
	(iii) Uprating of 132kV S/C Ranoli - Reengus line line with dismentling of existing 132kV line.	MLIN/17.41		25.5		727.76							
	(iv) 132kV feeder bay at 220kV GSS Sikar	CBAY/17.08				70.33							

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								Provision Plan (Revised)	Physical Targets Revised		Provision Plan (Proposed)	Physical Targets Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
0	1	2	3	4	5	6	7	8	9	10	11	12	13
	(v) 132kV feeder bay at 132kV GSS Sanwali Road Water Works	CBAY/17.09				70.33							
	New start 2018-19												
46	Interconnection of 220kV GSS at Rawatsar (Distt. Hanumangarh)												
	(i) 132kV S/C line from 220kV GSS Rawatsar to Tibbi (132kV GSS) and from Tibbi to Amarpurtheri (Revised)	CLIN/18.03		50		826.18	2019-20	Incl. in 220kV Rawatsar	50		1000		
	(ii) 132kV S/C line from 220kV GSS Rawatsar to 132kV GSS Nohar	CLIN/18.04		35		578.65	2019-20		35				
	(iii) 132kV S/C line from 220kV GSS Rawatsar to 132kV GSS Rawatsar	CLIN/18.05		7.8		129.8	2019-20		7.8				
	(iv) 132kV feeder bay at 132kV GSS Amarpura Theri			-		56.19	2019-20		-				
	(v) 132kV feeder bay at 132kV GSS Nohar			-		56.19	2019-20		-				
	(vi) 132kV feeder bay at 132kV GSS Rawatsar			-		56.19	2019-20		-				
	GSSs targetd to be commissioned during 2019-20 [S.No. 47 to 58, 12Nos. /300MVA.]												
47	(i) 132/33 kV, 20/25 MVA GSS at Chordi	CGSS/15.31	VR, LR, LC		25	1443.58	2019-20	600			1000		25
	(ii) LILO 132kV S/C Bagidora-Mahi Ph-2 line	CLIN/15.26	VR, LR, LC	20		353.51						20	
48	(i) 132/33 kV, 20/25 MVA GSS at Kuwa Khera (Distt. Chittorgarh)	CGSS/16.28	VR, LR, LC		25	1987.13	2019-20	600			600		25
	(ii) LILO of existing 132 kV S/C RAPP- Gandhi Sagar at Kuwa Khera (Distt. Chittorgarh)	CLIN/17.01	VR, LR, LC	40								40	
49	(i) 132/33 kV, 20/25 MVA GSS at Nahargarh (Distt. Baran)	CGSS/17.06	VR, LR, LC		25	1746.97	2019-20	700			900		25
	(ii) 1 No. 132kV bay at 132kV GSS Atru	CBAY/17.05											
	(iii) 132 kV S/C Atru-Nahargarh line (22ckM)	CLIN/17.12	VR, LR, LC	22								22	
50	(i) 132/33 kV, 20/25 MVA GSS at Chohtan (Distt. Barmer)	CGSS/17.11	VR, LR, LC		25	1878.73	2019-20	1000			800		25
	(ii) 1 No. 132kV bay at 132kV GSS Sawa	CBAY/17.07											
	(ii) 132 kV S/C Sawa- Chohtan line (30ckM)	CLIN/17.17	VR, LR, LC	30								30	
51	(i) 132/33kV, 20/25 MVA GSS at Patan (Ajmer)	CGSS/17.05	VR, LR, LC		25	1796.38	2019-20	800			900		25
	(ii) 1 No. 132kV bay at 132kV GSS Dudu	CBAY/17.04											
	(iii) 132kV S/C Dudu- Patan line(50ckM)	CLIN/17.11	VR, LR, LC	50								50	
52	(i) 132/33 kV, 20/25 MVA GSS at Pallu (Distt. Hanumagarh)	CGSS/18.02	VR, LR, LC		25	1488.37	2019-20	300			1000		25
	(ii) LILO of 132kV S/C Rajiasar - Bhanipura - Sardarshahar line at Pallu	CLIN/18.06	VR, LR, LC	6			2019-20					6	
53	(i) 132/33 kV, 20/25 MVA GSS at Negadia (Danpur) (Distt. Banswara)	CGSS/18.03	VR, LR, LC		25	1984.75	2019-20	300			1400		25
	(ii) 32kV S/C Dalot - Nagadia (Danpur) line	CLIN/18.07	VR, LR, LC	35			2019-20					35	

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								Provision Plan (Revised)	Physical Targets Revised		Provision Plan (Proposed)	Physical Targets Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
0	1	2	3	4	5	6	7	8	9	10	11	12	13
	(iii) 132kV Negadiya bay at 132kV GSS Dalot	CBAY/18.05											
54	(i) 132/33 kV, 20/25 MVA GSS at Baler (Distt. Sawaimadhopur)	CGSS/18.04	VR, LR, LC		25	1704.22	2019-20	100			1500		25
	(ii) 32kV S/C Khandar - Baler line	CLIN/18.10	VR, LR, LC	18			2019-20					18	
	(iii) 132kV Baler Bay at 132kV GSS Khandar	CBAY/18.06											
55	(i) 132/33 kV, 20/25 MVA GSS at Jhijhaniyali(Distt. Jaisalmer)	CGSS/18.05	VR, LR, LC		25	2760.15	2019-20	100			2000		25
	(ii) LILO of 132kV S/C Sangarh- Sheo line	CLIN/18.13	VR, LR, LC	100			2019-20					100	
56	(i) 132/33 kV, 20/25 MVA GSS at Mohangarh (Distt. Jaisalmer)	CGSS/18.08	VR, LR, LC		25	2232.28	2019-20	100			1500		25
	(ii) 132kV S/C Chandan- Manohargarh line	CLIN/18.18	VR, LR, LC	50			2019-20					50	
	(iii) 132kV Bay at 132KV GSS Chandan	CBAY/18.07	VR, LR, LC				2019-20						
57	(i) 132/33 kV, 20/25 MVA GSS at Tibbi (Distt. Hanumangarh)	CGSS/18.06	VR, LR, LC		25	1407.19	2019-20	100			1200		25
	(ii) 132kV S/C Rawatsar (U/c 220kv GSS) - Tibbi line	CLIN/18.03	VR, LR, LC	35			2019-20					35	
	(iii) 132kV S/C Tibbi- Amarpura Theri line	CLIN/18.15	VR, LR, LC	13			2019-20					13	
58	(i) 132/33 kV, 20/25 MVA GSS at Jeran (Distt. Jalore)	CGSS/18.07	VR, LR, LC		25	1420.38	2019-20	100			1200		25
	(ii) LILO of 132kV S/C Bhinmal - Bagora line at proposed 132KV GSS at Jeran	CLIN/18.16	VR, LR, LC	1		136.38	2019-20					1	
B	New 132 kV Schemes (to be identified) (Including land cost for land bank & PPP schemes and their priliminary boundary wall works etc)							700			1000		
C	Carried Over Liabilities (Civil works & Bal.Elect. Works - 132kV) of Sub Stations & Lines Commissioned												
	(a) CE (T&C), Jaipur Zone							200			300		
	(b) CE (T&C), Jodhpur Zone							200			300		
	(c) CE (T&C),Ajmer Zone							100			300		
	(d) CE (Civil), Jaipur (for Addl. CE Jaipur/Ajmer/Jodhpur)							200			200		
	IV. Total (132 kV)							**26305**	**598**	**375**	**31550**	**669**	**300**
	Target 132 kV - WORKING								**598**	**375**		**669**	**300**
	Annual Plan target								**289**	**375/15**		**419**	**300/12**

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								Provision Plan (Revised)	Physical Targets Revised		Provision Plan (Proposed)	Physical Targets Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
0	1	2	3	4	5	6	7	8	9	10	11	12	13
V	**Smart Transmission Operation (STOMS) & Asset management System (STNAM), RE Integration schemes (PSDF funded schemes)**		-	-	-								
	(i) Smart Transmission Operation Management System (STOMS)	AUTO/16.04	-	-	-	3000	2019-20	840			1000		
	(ii) Smart Transmission Operation Management System (STOMS) **Extension**						2020-21	0			10000		
	(iii) Communication Back Bone - Smart Transmission Network and Asset Management System (Part-B) STNAM	AUTO/18.16	-	-	-	58687	2020-21	12400			35000		
	(iv) 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	2020-21	2900			7000		
	(v) 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	2020-21	100			5000		
	Total (V)							**16240**			**58000**		
VI	Capacitor banks (MVAR)		-	-	-								
	(a) CE (T&C), Jaipur Zone							300			400		
	(b) CE (T&C), Jodhpur Zone							700			800		
	(c) CE (T&C),Ajmer Zone							200			400		
	(d) CE (Civil), Jaipur (for Addl. CE Jaipur/Ajmer/Jodhpur)							400			600		
VII	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							4800			5500		
	(b) CE (T&C), Jodhpur Zone							4900			6000		
	(c) CE (T&C),Ajmer Zone							4800			5500		
	(d) CE (Civil), Jaipur (for Addl. CE Jaipur/Ajmer/Jodhpur)							400			600		
VIII	Automation/ SCADA solutions, RTU's/ BCU's, related primary equipments upgradations, communication interfaces/ channels (under ULDC, up gradation of existing S/S)	AUTOMATION /SCADA/RTU	-	-	-			1500			1500		
IX	(i) Supply, installation, implementation, customization and integration of SAP ERP solution in RVPN	SWHW/15.01	-	-	-								
	(ii) Purchase of IT hardwares, associated standard software, Computer furniture, networking equipment, internet connectivity etc.	SWHW/15.02	-	-	-			1100			1400		
	(iii) Creation of Data Centre (San storage 2 , Racks , Server, Civil works , Networking etc.)	SWHW/15.03	-	-	-								
	(iv) Creation of IT centre at Chambal including civil, electrical works, IT & Commonication related works , furniture and allied works.	SWHW/15.05	-	-	-								

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								Provision Plan (Revised)	Physical Targets Revised		Provision Plan (Proposed)	Physical Targets Proposed	
									Ckt Km.	MVA/Nos.		Ckt	MVA/Nos
0	*1*	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*
X	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							Investment disallowed by RERC order dt. 24.01.2019			0		
	(b) CE (T&C), Jodhpur Zone										0		
	(c) CE (T&C),Ajmer Zone										0		
XI	Renovation Modernisation and Up-gradation (RMU) of equipments & protection schemes of RVPN (Scheme -II & III) others	RMUP/JP.15.01	-	-	-						-		
XII	Renovation Modernisation and Up-gradation (RMU) 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) others	RMUP/JP.15.01 to 15.50, RMUP/AJ & RUMP/JD etc.	-	-	-			Investment disallowed by RERC order dt. 24.01.2019			0		
XIII	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.) others		-	-	-	10491					0		
XIV	Old miscelleneous works		-	-	-			Investment disallowed by RERC order dt. 24.01.2019			0		
XV	Allocation by CCOA (For Admn. & Residential builings, T&P, purchase of vahicles& other administrative works etc.)	AUMI/16.04 etc.	-	-	-						0		
	Total (V to XV)							19100			22700		
	Total Transmission (A)							120650			168000		
B	**Generation (Shared Projects)**							2000			2000		
	Grand Total (A+B)							122650			170000		
	Abbreviation Used :-												
	VR : Voltage Regulation Improvement Scheme.	*KfW : a financing institution of Germany*											
	LC : Load Catering Scheme.	*PSDF : Power System development System*											
	SS : System Strengthening Scheme.	*RFD : Result Framework Document*											