



Government of India विद्युत मंत्रालय Ministry of Power उत्तर क्षेत्रीय विद्युत समिति Northern Regional Power Committee

सं. उक्षेविस/ वाणिज्यिक/ 209/ आर पी सी (68 वीं)/2023/

दिनाँक: 08.08.2023

सेवा में / To,

उ.क्षे.वि.स. के सभी सदस्य एवं विशेष आमंत्रित (संलग्न सूचीनुसार) Members of NRPC & Special Invitees (As per List)

विषय: उत्तर क्षेत्रीय विद्युत समिति की 68^{वीं} बैठक की कार्यसूची। Subject: Agenda for 68th meeting of Northern Regional Power Committee-reg

महोदय / महोदया,

उत्तर क्षेत्रीय विद्युत समिति की 68^{र्वां} बैठक दिनांक **18.08.2023 (10:30 AM)** को होटल औकीरा, उदयपुर, राजस्थान मे आयोजित की जाएगी । बैठक की कार्यसूची संलग्न है।

कृपया उपस्थिति सुनिश्चित करें I मेल में संलग्न एक्सेल शीट में यात्रा विवरण भरने का भी अनुरोध किया जाता है।

The 68th meeting of Northern Regional Power Committee (NRPC) will be held on **18.08.2023 (10:30 AM)** at Hotel Aukira, **Udaipur, Rajasthan**. Agenda for the same is attached.

It is requested to attend the same. It is also requested to fill the journey details in the excel sheet attached in mail.

भवदीय Yours faithfully, Signed by Vijay Kumar Singh Date: 08-08-2023 18:36:23 Reason: Approved (वी. के. सिंह) (V. K. Singh) सदस्य सचिव Member Secretary

प्रतिलिपि: मोहम्मद शायिन, एमडी, एचवीपीएनएल एवं अध्यक्ष, एनआरपीसी (md@hvpn.org.in)

N-	NPPC Momber	NRPC Members for F	Y 2023-24 Nominated/	F
5. No.	NRPC Member	Category	Nominated/ Notified/Delegated Member	E-mail
1	Member (GO&D), CEA	Member (Grid Operation & Distribution), Central Electricity Authority (CEA)	Member (GO&D), CEA	member.god@cea.nic.in
2	Member (PS), CEA	Nodal Agency appointed by the Government of India for coordinating cross-border power transactions	Member (PS), CEA	<u>memberpscea@nic.in</u>
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4	PGCIL	Central Government owned Transmission	Director (Operations)	tyagir@powergrid.in
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6	NRLDC	Northern Regional Load Despatch Centre	Executive Director	rk.porwal@grid-india.in
7 8	NTPC BBMB		Director (Finance) Chairman	jaikumar@ntpc.co.in cman@bbmb.nic.in
9	THDC	Control Concrating Company	ED (PSP&APP)	lpjoshi@thdc.co.in
10	SJVN	Central Generating Company	CMD	sectt.cmd@sjvn.nic.in
11	NHPC		Director (Technical)	ykchaubey@nhpc.nic.in
12 13	NPCIL Delhi SLDC		Director (Finance) General Manager	df@npcil.co.in gmsldc@delhisldc.org
14	Haryana SLDC		Chief Engineer (SO&C)	cesocomm@hvpn.org.in
15	Rajasthan SLDC		Chief Engineer (LD)	ce.ld@rvpn.co.in
16	Uttar Pradesh SLDC	State Load Despatch Centre	Director	directorsldc@upsldc.org
17 18	Uttarakhand SLDC Punjab SLDC	4	Chief Engineer Chief Engineer	anupam_singh@ptcul.org ce-sldc@punjabsldc.org
18	Himachal Pradesh SLDC	1	Chief Engineer	ce-sidc@punjabsidc.org cehpsldc@gmail.com
20	DTL		CMD	cmd@dtl.gov.in
21	HVPNL	4	Managing Director	md@hvpn.org.in
22	RRVPNL UPPTCL	State Transmission Utility	CMD Managing Director	cmd.rvpn@rvpn.co.in md@upptcl.org
23 24	PTCUL		Managing Director Managing Director	md@upptcl.org md@ptcul.org
25	PSTCL	1	CMD	cmd@pstcl.org
26	HPPTCL	<u> </u>	Managing Director	md.tcl@hpmail.in
27	IPGCL		Managing Director	md.ipgpp@nic.in
28 29	HPGCL RRVUNL		Managing Director CMD	md@hpgcl.org.in cmd@rrvun.com
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31	UJVNL		Managing Director	md@ujvnl.com
32	HPPCL		Managing Director	md@hppcl.in
33	PSPCL	State Generating Company & State owned Distribution Company	CMD	cmd-pspcl@pspcl.in
34	DHBVN	Distribution company	Director (Projects)	directorprojects@dhbvn.org.in
35	Jaipur Vidyut Vitran Nigam		Managing Director	md@jvvnl.org
	Ltd.	State owned Distribution Company		
36	Madhyanchal Vidyut Vitaran	(alphabetical rotaional basis/nominated by	Managing Director	mdmvvnl@gmail.com
37	Nigam Ltd. UPCL	state govt.)	Managing Director	md@upcl.org
38	HPSEB		Managing Director	md@hpseb.in
39	Prayagraj Power Generation		Head (Commercial &	sanjay.bhargava@tatapower.com
	Co. Ltd.		Regulatory)	
40	Aravali Power Company		CEO	SRBODANKI@NTPC.CO.IN
	Pvt. Ltd		050	
41	CLP Jhajjar Power Ltd.,		CEO	rajneesh.setia@apraava.com
42	Talwandi Sabo Power Ltd.		COO	Vibhav.Agarwal@vedanta.co.in
43	Nabha Power Limited		CEO	sk.narang@larsentoubro.com
43 44	Lanco Anpara Power Ltd	IPP having more than 1000 MW installed	President	sudheer.kothapalli@lancogroup.com
44	Rosa Power Supply	capacity	Station Director	Hirday.tomar@relianceada.com
-10	Company Ltd			
46	Lalitpur Power Generation		Managing Director	vksbankoti@bajajenergy.com
47	Company Ltd MEJA Urja Nigam Ltd.	1	CEO	honmeia@ntroc.co.in
		4		hopmeja@ntpc.co.in
48	Adani Power Rajasthan Limited		COO, Thermal, O&M	jayadeb.nanda@adani.com
49	JSW Energy Ltd. (KWHEP)	1	Head Regulatory & Power	jyotiprakash.panda@jsw.in
50	RENEW POWER		Sales CEO	sumant@renew.com
		IPP having less than 1000 MW installed capacity (alphabetical rotaional basis)	020	Sumangerenew.com
54		capacity (alphabelical 10tdi01tdi 0d515)		
51	UT of J&K	From each of the Union Territories in the	Chief Engineer, JKPTCL	sojpdd@gmail.com
52	UT of Ladakh	region, a representative nominated by the administration of the Union Territory	Chief Engineer, LPDD	cepdladakh@gmail.com
53	UT of Chandigarh	concerned out of the entities engaged in generation/ transmission/ distribution of electricity in the Union Territory.	Executive Engineer, EWEDC	<u>elop2-chd@nic.in</u>
54	BYPL	Private Distribution Company in region	CEO	Amarjeet.Sheoran@relianceada.com
55	Bikaner Khetri Transmission		Vice-President	nihar.raj@adani.com
56	Limited Adani Enterprises	cetral govt.) Electricity Trader (nominated by central	Head Power	anshul.garg@adani.com
	Ajmer Vidyut Vitran Nigam	govt.) Special Invitee	Sales & Trading Managing Director	md.avvnl@rajasthan.gov.in
57	Ltd.	opoolal intrico	0 0	

Special Invitees:

- 1. Shri. Chowna Mein, Hon'ble Dy. Chief Minister and I/C Power, Govt. of Arunachal Pradesh, Block No.2, 5th Floor, A.P. Civil Secretariat, Itangar-791111. [Email: chowna.mein@gov.in]Tel -03602212671
- Shri Ginko Lingi, Chairman, TCC, NERPC & Chief Engineer (P), TPMZ, Department of Power, Govt. of Arunachal Pradesh, Vidyut Bhawan, zero Point, Itanagar-791111. [Email: <u>ginko.lingi@gmail.com</u>] Tel -9612153184
- Shri K Vijayanand, Chairperson, SRPC, Chairman & Managing Director, Transmission Corporation of Andhra Pradesh Limited, Vidyut Soudha, Gunadala, Eluru Rd, Vijayawada, Andhra Pradesh 520004. [Email: <u>cmd.aptransco@aptrandco.in</u>; <u>vjanand@nic.in</u>] Tel -08662429201
- Shri AKV Bhaskar, Chairperson TCC, SRPC, Director (Trasmission & Grid Management), Transmission Corporation of Andhra Pradesh Limited, Vidyut Soudha, Gunadala, Eluru Rd, Vijayawada, Andhra Pradesh 520004. [Email: <u>kannanvenkatabhaskar.angulabharanam@aptransco.co.in</u>] Tel_.08662429209
- 5. Sri Nikunja Bihari Dhal, IAS, Chairman, ERPC, Additional Chief Secretary to Govt., Department of Energy, Govt. of Odisha, Bhubaneswar. [Emailchairman@gridco.co.in] Tel -06742540098
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- Shri Sanjay Dubey, Chairman, WRPC & Principal Secretary(Energy), GoMP, VB-2, Vallabh Bhawan Annex, Mantralay, Bhopal: 462 001 (M.P.), Email: psenergyn@gmail.com, Tel. 0755-2708031
- Shri Raghuraj Rajendran, Chairman-TCC, WRPC & Managing Director MPPMCL, Block No-15, Shakti Bhawan, Vidyut Nagar, Rampur, Jabalpur-482008. [Emailmdofmppmcl@gmail.com]
- 9. Smt. Rishika Saran, Member Secretary, NPC, Sewa Bhawan, R. K. Puram, New Delhi-66 [Email-<u>cenpc-cea@gov.in</u>]
- Shri Deepak Kumar, Member Secretary, WRPC, Plot No- F-3, MIDC Area, Marol, Opp. SEEPZ, Central Road, Andheri (East), Mumbai-40093.[email: mswrpc@nic.in] Tel - 02228221636
- 11. Shri Asit Singh, Member Secretary, SRPC, No.29, Race Course Cross Road, Bengaluru-560009. [Email: <u>mssrpc-ka@nic.in</u>] Tel -08022287205/9449047107
- Shri N.S. Mondal, Member Secretary, ERPC,14,Golf Club Road, ERPC Building, Tollygunje,Kolkata-700033. [Email: <u>mserpc-power@nic.in</u>]- Tel 03324239651/9958389967
- 13. Shri K B Jagtap, Member Secretary, NERPC, NERPC Complex, Dong Parmaw, Lapalang, Shillong-793006. [Email: <u>ms-nerpc@gov.in</u>] Tel_-03642534077/ <u>8652776033</u>







Agenda for 68th meeting of

Northern Regional Power Committee

Date: 18th August 2023 Time: 10:30 AM

Venue:

Aukira Resort 01, Kala Rohi, Sisarma, Udaipur, Rajasthan - 313001, India

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A.1 Approval of MoM of the 67th NRPC meeting

A.1.1 The Minutes of the 67th NRPC meeting (held on 30.06.2023) was issued vide letter dtd.
 21.07.2023. No Comment from any utilities received till date. In view of above, the Minutes of the 67th NRPC meeting may be approved.

Decision required from the Members of the Committee:

NRPC Members may consider to approve the above MoM.

A.2 Requirement of No-objection Certificate (NOC) for auxiliary power consumption for STATCOM at 765/400/220kV Bhadla-2 substation (agenda by POWERGRID)

A.2.1 POWEGRID has submitted that Grid-India vide its order ref.no. NLDC/FTC dated 03.06.2020 has issued consolidated procedure for first time charging /energization (FTC) and integration of new or modified power system element. Section 4 of this FTC procedure provides the details of requirement for integration of a STATCOM/SVC and issue of certificate of successful trial operation by Regional Load Dispatch Centres (RLDCs).

Under para 1 of section 4, pre-charging activities are defined and as per 1(e), the following is mentioned:

"The auxiliary consumption of STATCOM is generally drawn from the tertiary of the 400/220/33kV Transformer at the substation. The meter reading of this transformer would include the auxiliary consumption of STATCOM as well. Therefore, a No Objection Certificate (NOC) from the local DISCOM and SLDC would also be provided by the owner of STATCOM."

- A.2.2 POWERGRID has installed 2 x <u>+</u>300MVAr STATCOM at Bhadla-2 substation in Rajasthan and similar installations are under commissioning at other pooling stations in Rajasthan i.e., Fatehgarh-2 & Bikaner-2 stations. With reference to STATCOM at Bhadla-2 substation, SE/JDVVNL (local DISCOM), vide letter dated 28.03.2023 was requested for issuance of NOC for auxiliary power consumption of STATCOM from the tertiary of the 400/220/33kV Transformer, as a part of compliance of requirement for FTC procedure. Subsequently JDVVNL representative visited Bhadla-2 substation and jointly verified the energy meters (SEM) for metering of auxiliary power consumption. Further Executive Engineer/Phalodi has forwarded a letter to SE/O&M, Jodhpur in this matter.
- A.2.3 However even after several visits and communications (chronology of events tabled below), JDVVNL is yet to issue the NOC. POWERGRID has been communicated by

JDVVNL officials that there are no clear instructions to JDVVNL for issuing any type of no-objection certificate.

A.2.4 The chronology of events in case of STATCOM of Bhadla-2 substation are as follows:

S.N.	Particulars	Date
1	Superintending Engineer (JDVVNL-Jodhpur) was	28-03-2023
	requested for NOC of ±300 MVAR STATCOM at	
	Bhadla-2 S/s	
2	Vist of JDVVNL officials (AE & JE) at POWERGRID	15-05-2023
	Bhadla-2 SS for joint verification of metering system	
	for auxiliary power consumption in STATCOM	
3	Letter from AE to Executive Engineer and further letter	05-06-2023
	written by Executive Engineer to SE for issuance of	
	NOC	
4	Letter submitted by POWERGRID to Additional Chief	28-06-2023
	Engineer-JDVVNL for issuance of NOC	
5	Visits of POWERGRID Bhadla-2 representative to	1 st visit- 28-06-23
	JDVVNL Jodhpur office for NOC	2 nd visit- 11-07-23
		3 rd visit- 21-07-23
6	Submission of undertaking by POWERGRID to	13-04-2023
	NRLDC towards submission of NOC	29-06-2023

- A.2.5 The STATCOM at Bhadla-2 has been commissioned on 02.06.2023 (STATCOM station-1) and 03.07.2023 (STATCOM station-2), however, trial run completion certificate is yet to be issued for the same.
- A.2.6 Forum is requested to facilitate issuance of No-objection certificate from local DISCOM for auxiliary consumption of STATCOM. Further, Grid-India is requested to issue certificate for completion of trial run operation for STATCOM at Bhadla-2 as the delay in submission of NOC is due to reasons, which are beyond reasonable control of POWERGRID.

Decision required from the Members of the Committee:

NRPC Members may take appropriate decision for facilitating NOC to POWERGRID.

- A.3 Upgradation of remote Gateways at HVDC Bhiwadi and Ballia terminals for improved reliability of telemetered data (agenda by POWERGRID)
- A.3.1 During 22nd Telecommunication, SCADA, and telemetry sub-committee (TEST) meeting held on dated 24.05.2023, agenda for telemetry related issues from POWERGRID stations was brought by NRLDC. NRLDC informed that letter regarding Telecommunication, SCADA & Telemetry issues from POWERGRID Sub-stations was given by NRLDC vide NRLDC/Telemetry/dated 15th Dec 2021. It has also been informed by NRLDC that although there is improvement with respect to other issues raised but data from Ballia HVDC and Bhiwadi HVDC stations is still unreliable. NRLDC has further issued a letter NRLDC/SCADA/2023 dated 18th April 2023 for telemetry issues related to HVDC Ballia and Bhiwadi terminals.
- A.3.2 During discussion in 22nd TEST meeting, NRLDC informed that "real-time data availability from Ballia and Bhiwadi HVDC is very poor, unreliable, and requested POWERGRID for rectification of the same".
- A.3.3 POWERGRID informed that being a proprietary product, M/s Siemens, OEM for Ballia-Bhiwadi Bi-pole link, was consulted for rectification of the same and M/s SIEMENS has informed that the present device (i.e. Remote control Interface-RCI) installed for data communication from HVDC Bhiwadi to NRLDC was installed in 2010, which is now obsolete and there is no hardware/software support available for this product.
- A.3.4 Further, OEM, M/s SIEMENS has suggested as follows:

"The existing DC SCADA and HMI system at Ballia and Bhiwadi HVDC station is running on Windows XP system from almost last 10 years. The existing hardwares spare parts for windows PC and windows XP software are obsolete and it is really tough to repair since the spare parts are no more available. Furthermore, windows XP system is also vulnerable in respect to cyber security since its news windows patches are no more available. We strongly recommend to upgrade the HMI PC's to Windows 10 and Terminal Server (Active directory server) to Windows 16 server along with spare hardwares to run the DC SCADA system smoothly at both the HVDC stations."

- A.3.5 Further, as per existing communication architecture, telemetry data of HVDC Ballia is routed through HVDC Bhiwadi gateway to NRLDC. Therefore, a requirement for direct communication between HVDC Ballia and NRLDC exists to avoid dependence of HVDC Ballia on Bhiwadi end's RCI gateway. NRLDC further requires additional datapoints for individual branches of filter banks, which is presently not available in existing SAS architecture.
- A.3.6 As OEM, M/s SIEMENS has declared the product as obsolete and has recommended for upgradation of RCI system, it is proposed to upgrade the existing remote gateways

(RCI) along with old XP based SAS system at HVDC Ballia and Bhiwadi terminals for improved reliability of telemetry. This shall also take care of additional data points for filter banks, shunt filter reactors etc. as per requirement of NRLDC.

- A.3.7 The total estimated cost for upgradation of HVDC SAS system (including RCI gateways) at HVDC Ballia and Bhiwadi terminals shall be Rs. 5.10 Cr (including GST).
- A.3.8 In view of above, POWEGRID has proposed to upgrade the existing SAS system (including RCI gateways) at HVDC Ballia & Bhiwadi terminals in order to achieve improved reliability of telemetry data, direct communication of HVDC Ballia to NRLDC and for including additional data points as per requirement of NRLDC.

Decision required from the Members of the Committee:

NRPC Members may deliberate on above proposal and approve accordingly.

- A.4 Upgradation of 220KV CTs in line feeders, Bus Coupler and TBC Bays at 400/220KV Wagoora Substation due to change in rating of the Line (agenda by POWERGRID)
- A.4.1 Executive Engineer, JKPTCL vide letter no.: TLMD-IV/669-72 dated 20-09-2022 informed that they are going to carryout re-conductoring of 220KV Wagoora Zainakot-1 with HTLS conductor including strengthening of bays at Zainakot end and mentioned that after reconductoring, thermal rating of 220KV Wagoora Zainakot Ckt-1 will be 1550 Amp. He further informed that CTs of Wagoora-Pampore Ckt-I & II have been upgraded from 900A to 1600A at Pampore end and he advised to strengthen 220kV Bays accordingly at Wagoora end.
- A.4.2 220KV Pampore 1, 2 and Zainakot 1 & 2, Bus coupler and TBC bays at Wagoora Substation were commissioned in the year 1996 and equipment in these bays had already completed 27 years of useful life. Ratio of CTs at Wagoora substation are 1000:1
- A.4.3 In line with JKPTCL requirements, it is required to upgrade the Current Transformer in 220KV Wagoora Zainakot 1&2 Bays, 220KV Wagoora Pampore 1&2 Bays, 220KV Bus Coupler Bay and 220KV TBC Bay from 1000:1 to 1600:1.
- A.4.4 Apart from the above, Jack Bus, Bay jumpers, equipment connectors are also required to be replaced with higher rating in these bays.
- A.4.5 The estimated cost for replacement of CTs, Jack bus, bay jumpers and equipment connectors shall be Rs. 1.4 Cr. including GST.

A.4.6 In view of above, it is proposed to upgrade above elements in 220kV bays at Wagoora Substation under ADDCAP as proposed above to meet increasing load requirement of JKPTCL.

Decision required from the Members of the Committee:

NRPC Members may deliberate on above proposal and approve accordingly.

A.5 Communication System for LILO lines of 400kV Jallandhar (PG) – Kurukshetra (PG) line at Nakodar Sub-station of PSTCL (agenda by POWERGRID)

A.5.1 OPGW along with Communication equipment implementation on 400kV Jallandhar (PG) – Kurukshetra (PG) line (229km) was approved in 57th NRPC meeting & concurred by 11th NCT for extending data & voice connectivity of upcoming PSTCL station at Dhanansu. Length of sections at Dhanansu is as below:

Line In at Dhanansu = 3.880km

Line Out at Dhanansu = 3.880km

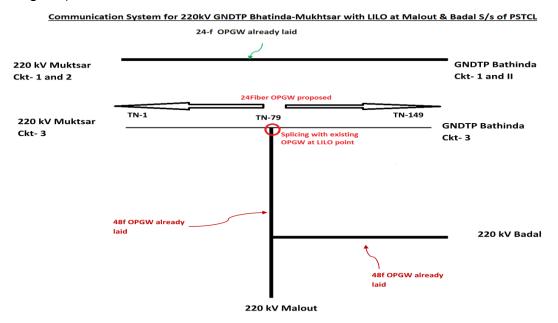
- A.5.2 During 57th NRPC meeting, PSTCL has agreed to pay cost incurred by POWERGRID for communication system in LILO sections of PSTCL at upcoming Dhanansu through bilateral tariff mechanism and shall be shared by PSTCL as per CERC notification.
- A.5.3 POWERGRID has accordingly sought inputs from PSTCL. PSTCL vide email dated 23.02.2023 has proposed communication system implementation on LILO of 400kV Jalandhar-Kurukshetra at Nakodar substation (Line In 3.047km & Line Out 3.047km) in addition to upcoming LILO of Jalandhar-Kurukshetra at Dhanansu s/s.
- A.5.4 Forum may approve implementation of OPGW along with communication equipment by POWERGRID on LILO sections of Jalandhar-Kurukshetra line at Nakodar substation of PSTCL. Investment made by POWERGRID for communication system in LILO at Nakodar shall be recovered through bilateral tariff mechanism and shall be shared by PSTCL as per CERC notification.

Decision required from the Members of the Committee:

NRPC Members may deliberate on above proposal and approve accordingly.

A.6 Communication system for 220kV GNDTP Bhatinda-Mukhtsar line (circuit-3 on Single circuit towers) (Length:51km) to provide data & voice connectivity to LILO sub-stations at Badal & Malout recommended in 58th NRPC (agenda by POWERGRID)

- A.6.1 OPGW along with communication equipment implementation on 220kV single circuit GNDTP Bhatinda-Mukhtsar line (circuit-3) (Length:51km) was technically concurred in 58th NRPC meeting.
- A.6.2 58th NRPC forum had advised POWERGRID and PSTCL to discuss bilaterally for implementation of Communication System on Bhatinda – Mukhtsar line as same not being ISTS.
- A.6.3 PSTCL vide email dated 02.03.2023 has accepted POWERGRID proposal for implementation of OPGW on 3rd Circuit of 220kV GNDTP Bhatinda-Mukhtsar line and splicing with existing OPGW in LILO section at Badal & Malout (as in single line diagram).



A.6.4 NRPC may approve implementation of OPGW along with communication equipment by POWERGRID on 3rd circuit of 220kV GNDTP Bhatinda-Mukhtsar line through bilateral tariff mechanism which shall be shared by PSTCL as per CERC notification.

Decision required from the Members of the Committee:

NRPC Members may deliberate on above proposal and approve accordingly.

A.7 Non-opening of Letter of Credit by JKPCL (formally PDD, J & K) for power supplied from NJHPS & RHPS (agenda by SJVN)

A.7.1 As per mutually signed Power Purchase Agreement and order dated 28.06.2019 issued by Ministry of Power, Beneficiary is to submit a confirmed, revolving, irrevocable Letter of Credit in favour of SJVN for an amount equivalent to 105% of average monthly billing of preceding 12 months with appropriate bank as mutually acceptable to parties. The LC shall be kept valid at all the time during the validity of the Power Purchase Agreement.

A.7.2 In spite of repeated reminders, Power Development Department of J&K had not renewed their Letter of Credit after 13.11.2019 for power supplied from NJHPS and RHPS. As such Power Development Department of J&K may be advised to submit Letter of Credit in favour of SJVN.

Decision required from the Members of the Committee:

NRPC Members may deliberate on issue and decide for appropriate action accordingly.

A.8 Delay in payment of Arrear Bills by PSPCL and interest on refund of arrear bills (agenda by SJVN)

A.8.1 SJVN had to file petitions before CERC for recovery of the Expenditures incurred by SJVN over the years as per CERC regulations for Tariff Determination. If the information furnished in the petition is in accordance with the regulations and is adequate for carrying out prudence check of the claims made, the Commission shall consider the suggestions and objections, if any, received from the respondents, within one month from the date of filing of the petition, and any other person including the consumers or consumer associations. The Commission shall issue the tariff order after hearing the petitioner, the respondents and any other person specifically permitted by the Commission. We are Considering the Tariff regulation issued by CERC for the period 2014-19.

Point 11 to 13 of Clause 8 Chapter 13 of Tariff Regulation 2014-19 is reiterated below:

(11) Where after the truing up, the tariff recovered exceeds the tariff approved by the Commission under these regulations, the generating company or the transmission licensee, shall refund to the beneficiaries or the long term transmission customers /DICs, as the case may be, the excess amount so recovered as specified in the Clause 13 of this regulation.

(12) Where after the truing up, the tariff recovered is less than the tariff approved by the Commission under these regulations, the generating company or the transmission licensee shall recover from the beneficiaries or the long term transmission customers /DICs, as the case may be, the under-recovered amount as specified in the Clause 13 of this regulation.

(13) The amount under-recovered or over-recovered, along with simple interest at the rate equal to the bank rate as on 1st April of the respective year, shall be recovered or refunded by the generating company or the transmission licensee,

8

as the case may be, in six equal monthly instalments starting within three months from the date of the tariff order issued by the Commission.

As per Clause 8(13) of CERC regulation, Generators have to raise Arrear Bills within three months from the receipt of Tariff Order from CERC.

- A.8.2 Based on above clauses, SJVN is raising arrear bills to its beneficiaries of NJHPS and RHPS after receipt of CERC orders from time to time. The Arrear bills are to be recovered or refunded as per CERC order in single instalments or multiple instalments.
- A.8.3 PSPCL had unilaterally taken the repayment date on 90th day from the date of issue of Tariff order instead of SJVN bill issue date.
- A.8.4 The Clause 8(13) of CERC regulation is very clear arrear bills can be issued within three months from the date of tariff order rather than payment of Energy Bills from the date of Tariff order.
- A.8.5 Further, PSPCL had deducted interest on negative arrear bills. This had resulted into accumulation of Late Payment Surcharge (LPS).
- A.8.6 PSPCL may be directed to treat the bill date when the bills had been issued and not to charge any interest negative bills which is contrary to any CERC regulation. Further, PSPCL may be directed to pay the LPS on delayed payments to avoid any penal action provided in CERC regulation.

Decision required from the Members of the Committee:

NRPC Members may deliberate on issue to resolve the same.

A.9 Issues arising due to non-availability of sufficient ERS (agenda by NRLDC)

A.9.1 The measures required for tower strengthening and availability of Emergency Restoration System are being regularly discussed in NRPC meetings. There have been many past events of tower collapse especially during summer and monsoon season and accordingly all utilities were requested to take necessary actions.

Extract from 62nd NRPC Meeting (31st January 2023)

"B. Tower strengthening activities:

A.11.6 NRLDC representative stated that there have been number of instances of tower collapse & damage in the past during thunder storms which resulted in constraints in supply power for extended duration of time. Number of tower collapse incidents occurred during last summer also in May/Jun 2021 & 2022 in which many EHV lines including 765kV lines were out on tower collapse.

A.11.7 All utilities were requested to ensure availability of Emergency Restoration System (ERS) for early restoration of supply. Each utility shall work on plan for tower repairing work before April. Extra precautions need to be taken care for important lines which have history of tripping during thunderstorm/ windstorm.

A.11.8 NRPC advised all utilities to ensure availability of ERS and take necessary actions for tower repairing work before April 2023."

A.9.2 Even after actions taken by utilities, it was observed that following lines were out due to tower collapse during last few months:

			Outage	
SI. No.	Line Name	Owner	Time	Impact on Grid
NO.			Days	
1	765 KV Phagi(RS)- Bhiwani(PG) (PG) Ckt-1	PGCIL	7	
2	765 KV Phagi(RS)- Bhiwani(PG) (PG) Ckt-1	PGCIL	11	
3	400 kV Jhajjar(APCL)- Daulatabad(HV) (HV) Ckt-2	HVPNL	18	Issue of Jhajjar evacuation under N-1 contingency of remaining lines, generation restriction during high demand season
4	400 KV Bikaner-Bhadla (RS) Ckt-1	RRVPNL	78*	
5	400 KV Bikaner-Bhadla (RS) Ckt-2	RRVPNL	78*	
6	400 KV Bhadla-Merta (RS) Ckt-1	RRVPNL	18, 25*	
7	400 KV Bhadla-Jodhpur (RS) Ckt-1	RRVPNL	69*	
8	765 kV Bikaner(PG)- Khetri (PKTSL) (BKTL) Ckt-1	BKTL	1	
9	400 kV Jaisalmer- Barmer (RS) Ckt-2	RRVPNL	43	
10	400 kV Jaisalmer-	RRVPNL	43	

	Barmer (RS) Ckt-1			Bikaner(RS) lines for
11	400 kV Akal-Jodhpur	RRVPNL	40	commissioning of 400kV
	(RS) ckt-1		40	Bikaner-II.
	400 KV			Evacuation of Vishnuprayag
12	Muzaffarnagar(UP)-	UPPTCL	2	generation through only single
12	Vishnuprayag(JP) (UP)	OFFICE	2	400kV line (400kV
	Ckt-1			Vishnuprayag- Alakhnanda)
	220 KV			
13	Chamera_3(NH)-	PGCIL	24*	
	Chamba(PG) (PG) Ckt-1			
	221 KV			
14	Chamera_3(NH)-	PGCIL	24*	
	Chamba(PG) (PG) Ckt-2			
* the	se lines are still under outag	ge		

- A.9.3 It can be clearly seen from the above table that the outage of lines on tower collapse has led to major issues in grid operation as well as for safe evacuation of generation.
- A.9.4 During this period, shutdown of 400kV Bikaner (PG)-Bikaner(RJ) lines were also availed by POWERGRID for commissioning of 400kV Bikaner-II S/s. During the shutdown period, POWERGRID had implemented Quad Moose ERS which helped in minimising the RE curtailment during the shutdown period.
- A.9.5 All other utilities are also requested to ensure that they have availability of ERS, trained manpower and also gangs which could complete such tasks swiftly, in case of requirement.
- A.9.6 It may be noted that MoP, Govt of India had already issued instructions for procurement of ERS by all transmission utilities (attached as **Annexure-I**) which was discussed in 150th OCC meeting (held on 21.08.2018) and CEA (Grid Standards) Regulations, 2010 also suggests keeping necessary arrangement for ERS. The instructions also suggest strategy to determine ERS requirement by utilities:
 - "For any transmission utility, one set of ERS has been planned to cater to failure of towers for transmission line lengths of up to 5000 Ckt. Kms. Accordingly, two (2) sets of ERS have been planned for transmission line lengths of about 5000 to 10,000 Ckt. Kms, and three (3) sets for more than 10,000 Ckt. Kms and so on.
 - The transmission Utility with line length less than 500 ckt kms (of 400kV lines) may be given option either to procure ERS or have agreement with other

transmission utilities for providing ERS on mutually agreed terms, when need arises."

Given the increase in line length under jurisdiction of different utilities over the years, it is suggested that the nos of ERS requirement may be reviewed and regularly monitored at OCC level.

It is once again requested to all transmission utilities to ensure that tower strengthening works are carried out on priority before summer season and availability of sufficient ERS may be ensured especially for areas that are more prone to such tower collapse incidents. Further, as agreed in 63rd NRPC meeting (held on 24.02.2023), ERS availability monitoring may be included in follow up agenda by NRPC for discussion in monthly OCC meetings.

Decision required from the Members of the Committee:

NRPC Members may deliberate on issue and may take necessary decision.

A.10 Issues related to J&K (agenda by NRLDC)

A.10.1 The issues related to J&K U/T power system have been under discussion since long time in NRPC forum (most recently discussed in 57th NRPC Meeting held on 31st August'22), however, the progress is very slow in this regard. Several issues have been persisting in J&K control area which have impact on reliable grid operation in their control area. Various pending issues are listed below:

i. J&K Telemetry Issues

A.10.2 The matter was most recently discussed in 64th NRPC meeting. Extract of MoM are shown below:

"A.19.3 Representative from Jammu & Kashmir informed that 47 OPGW links out of 73 links have been commissioned by POWERGRID and remaining links are expected to be completed by June 2023. He further informed that 68 crores funds for OPGW installation has already been given to POWERGRID and they are in process of approval of additional 21 crores fund.

A.19.4 NRLDC representative informed that although OPGW links are getting commissioned but RTU data integration is still pending and requested J&K and POWERGRID to expedite integration of RTU data so that visibility of J&K area can be improved.

A.19.5 Representative from POWERGRID informed that RTU were commissioned in 2015 by M/s Siemens without communication link. Now when the links are available there are issues in RTU reporting which needs to be addressed. Also at some of the location during Sub-station, retrofitting CT& PT cables were disconnected and new cabling needs to be done.

A.19.6 MS NRPC expressed serious concern and requested that a joint meeting may be conducted including members from POWERGRID, NRLDC, J&K and M/s Siemens to finalise the work needed to integrate the RTUs and for further action by J&K.

A.19.7 Forum concurred on views of MS, NRPC."

A.10.3 No update has been received from J&K till the date.

ii. Ufr and df/dt status

- A.10.4 As per the agreed quantum relief for NR, total target in respect of J&K for UFR and df/dt are 336 MW and 270 MW respectively. Confirmation on relief quantum is yet to be received from J&K. Moreover, in compliance of NPC decision, NR states/constituents agreed to raise the AUFR settings by 0.2 Hz in 47th TCC/49th NRPC meetings.
- A.10.5 Status is still pending from J&K end.

iii. Long outage of 220kV Kishenpur-Mirbazar line

- A.10.6 220kV Kishenpur-Mirbazar line is under long outage since 19.02.2023 due to tower collapse. It is to be noted that significant time (much higher than time specified in CEA regulations) has passed since line outage and still the line has not been revived yet.
- A.10.7 In 57th NRPC meeting, J&K representative stated that revival of 220kV Kishenpur-Mirbazar line would be completed in nearly 2-3 months. However, it is still pending.

iv. Mock black start exercise of URI-I & URI-II HEP, Lower Jhelum HEP

A.10.8 Mock black start exercise are necessary to make sure that generating units are able to start in case of requirement/ blackout of grid. Mock black start exercise of URI-I & URI-II HEP, Lower Jhelum HEP is yet to be conducted. In 198 OCC meeting, JKPTCL representative agreed that the issue is well known and important and the same would be taken up with SLDC. A.10.9 As per latest discussion held with J&K & NHPC officers on 27.07.2023, the blackstart exercise for Uri-I & Uri-II are planned in Oct-Nov this year. As the blackstart exercise has not been carried out since number of years, it is requested to plan and adhere to the dates for black start exercise as number of agencies are involved in the exercise.

v. Reactive compensation details

- A.10.10 J&K grid being weakly connected from the rest of the grid and due to its isolated location suffers from issues of severe low voltage. During winter months when hydro generation is not available and demand in J&K control area is high due to heating load requirements, the issue of low voltage gets aggravated. J&K also has to pay large amounts as reactive energy charges to pool due to high MVAr drawl from ISTS grid at the time of low voltage.
- A.10.11 It has been discussed and suggested to J&K to plan & expedite commissioning of reactive power devices especially capacitors at lower voltage level to improve the voltage profile in valley area and also avoid large sums payable as reactive energy charges. J&K is requested to furnish latest status of their reactive energy management plan.

Decision required from the Members of the Committee:

NRPC Members may deliberate on issue of J&K and may take necessary decision.

A.11 PMU Data of RVPN substations (agenda by NRLDC)

- A.11.1 Integration of PMU installed under Smart Transmission Network & Asset Management System (STNAMS) was discussed in detail in 64th NRPC Meeting held on 24th March 2023 wherein it was recorded that work would be completed by 30th April 2023.
- A.11.2 PMU data is very important to analyse transient/dynamic behaviour on fault/switching. Moreover, it is also important to analyse the recent oscillations observed in RE complex. However, data of PMUs installed in RVPN stations is still not reporting to Rajasthan SLDC/ NRLDC control room.
- A.11.3 In 66th NRPC meeting, RVPN representative stated that the work would be completed by 15th June 2023. However, the work is still pending.

Decision required from the Members of the Committee:

NRPC Members may deliberate on above issue of RVPN and may take necessary decision.

A.12 Transmission System for evacuation of power from Shongtong Karchham HEP (STKHEP) and Tidong HEP in Himachal Pradesh (agenda by HPPCL)

A.12.1 The issue regarding evacuation of power from Shongtong Karchham HEP (450MW) was discussed and deliberated during 65th NRPC meeting held on 21.04.2023 wherein the following interim arrangements was agreed subject to approval of NCT:

(i) Interim Part (Shongtong HEP):

- Generation switchyard of Shongtong HEP to Wangtoo (HPPTCL) 400Kv
 D/c [Quad] line (about 18 kms)
- > 2 nos. of 400kV bays (GIS) at Wangtoo S/s (HPPTCL).
- (ii) Final System (To be matching with generation schedule i.e. with time frame of 1st July 2026).
 - Establishment of 2x315 MVA (7x105 MVA 1-ph units including one spare unit) 400/220kV GIS Pooling Station at Jhangi.
 - Extension of Wangtoo (HPPTCL)- Shongtong HEP 400Kv D/c [Quad] line upto Jhangi PS with

one Circuit through Shongtong HEP generation switchyard.

- > Wangtoo (HPPTCL)-Panchkula (PG) 400Kv D/c line (Twin HTLS)
- 80 MVAR swtchable line reactor at Panchkula end on each circuit of 400kV Wangtoo (HPPTCL)- Panchkula (PG D/cline.
- 400kV bays at Wangtoo S/s (2 nos.) and Panchkula S/s (2nos.) for termination of 400kV Wangtoo (HPPTCL)- Panchkula (PG) D/c line.
- 125 MVAR, 420kV Bus reactor at Jhangi PS (1-ph units along with one spare unit).
- A.12.2 Based on the above decision, the issue was also deliberated and agreed in principle in the 18th Consultation Meeting for Evolving Transmission Scheme in Northern Region held on 28.04.2023.
- A.12.3 Subsequently, the matter was discussed in the meeting of National Committee on Transmission (NCT) held on 09.06.2023 wherein CTUIL informed that based on the preliminary survey report for 400 kV Wangtoo Panchkula D/c line, conductor in certain portion of the transmission line may need to be different configuration (due to very high altitude encountered in certain sections) in order to avoid Corona inception gradient. The cost of the transmission scheme may also increase.

- A.12.4 Accordingly, CTUIL was requested to confirm change in conductor configuration, if any, along with revised cost of the scheme based on the survey report and submit the same within two weeks. It is gathered that the details are still under finalization.
- A.12.5 It is further informed that the construction activities of project are in full swing, to achieve the commissioning target of Mid July, 2025 for which power evacuation system needs to be in place before by mid July 2025.
- A.12.6 It is therefore, requested that the approval of proposal for the interim arrangement for evacuation of power from Shongtong Karchham HEP and subsequent award of work may please be expedited in order to ensure that Transmission System is available before Mid July 2025 matching with commissioning schedule of Shongtong Karchham HEP.

Decision required from the Members of the Committee:

NRPC Members may deliberate on above issue and may take necessary decision.

A.13 Implementation of Islanding Scheme in Delhi (Agenda by DTL)

- A.13.1 A meeting was held on 14.07.2023 with DTL, Delhi SLDC and NRLDC under the chairmanship of MS, NRPC wherein DTL was asked to incorporate the suggestions/observations and put up a revised proposal of the scheme.
- A.13.2 The scheme was again discussed in the 209th OCC meeting held on 19.07.2023. After deliberation, the OCC forum concurred the revised Delhi islanding scheme and asked DTL to bring the scheme in upcoming NRPC meeting for final approval of the NRPC Board.
- A.13.3 DTL has submitted the proposal for revised islanding scheme (**Annexure-II**) of Delhi for final approval of the NRPC Committee.

Decision required from the Members of the Committee:

NRPC Members may deliberate on revised scheme and may approve accordingly.

A.14 Installation of capacitor banks at various substations of RVPN and DISCOMs (Agenda by RVPN)

A.14.1 As per the deliberations & discussions held during 77th TESG meeting of PSDF, RVPN had performed a combined study optimizing the locations for better placement of 33 KV and 11 KV capacitor banks and removing those capacitor banks which are causing over compensation. The study was submitted to NRPC on 12.06.2023 and was discussed with NRLDC and CTUIL in meeting held on 21.06.2023 at NRPC Secretariat.

- A.14.2 NRLDC in the meeting held on 21.06.2023 has suggested inclusion of some substations which had been otherwise dropped in the optimization on the basis of the load fluctuations. The same were incorporated in the revised DPRs/BOQ (Annexure-III).
- A.14.3 Brief of the revised DPR/BoQ is as follows-

S.	Entity	Voltage level	Capacitor	Capacitor banks	Capacitor banks
No.		of Capacitor	banks	proposed after	proposed after
		banks	proposed	optimization by	optimization by
			earlier	STU- Rev. 1	STU- Rev. 2
1.	RVPN	33 kV	101	100	100
		44111		500	
2.	JVVNL	11 kV	578	509	511
3.	AVVNL	11 kV	732	644	650
4.	JdVVNL	11 kV	911	730	730
	Tota	al	2322	1983	1991

Decision required from the Members of the Committee:

NRPC Members may deliberate on above proposal and may approve accordingly.

A.15 Sensitization for use of PushP Portal (agenda by NRPC Secretariat)

- A.15.1 PUShP portal (https://nationalsurpluspower.in/) has been launched on 09th March, 2023 by Hon'ble Minister of Power and NRE. He stated that Portal would be a single window system providing services to diverse domains of all the entities involved and to reallocate and transfer the power in minimum time from one surplus entity to deficit entity.
- A.15.2 The agenda was discussed in 64th NRPC meeting (held on 24.03.2023) wherein utilities were sensitized for use of PushP portal for Optimal Utilisation of Resources & Reduction in cost of Power for Consumers.
- A.15.3 13th NPC meeting (held on 05.07.2023), has highlighted that currently, 17 States are utilizing the portal. However, there is a lack of participation from the states of NR. It was also discussed that State Generating Stations (SGS) units with sufficient coal storage, under RSD, may participate on this portal for meeting the peak demand of other states and national grid.

A.15.4 A meeting was taken by Chairperson, CEA on 08.08.2023 and he highlighted that thermal generating units may leverage the facility of PushP portal. It will ensure capacity utilization of plants and at the same time may provide cheaper power to consumers as PushP portal facilitates power at regulated tariff. Further, the State will also be benefitted as corresponding fixed charge shall be transferred to the beneficiary.

Decision required from the Members of the Committee:

NRPC Members may deliberate on avenues available at PushP portal and may sensitize utilities of NR.

A.16 Notification of CERC Regulations (agenda by NRPC Secretariat)

- A.16.1 CERC has notified following regulations w.e.f 01.10.2023:
 - Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2023
 - Central Electricity Regulatory Commission (Connectivity and General Network Access to the inter-State Transmission System) (First Amendment) Regulations, 2023
- A.16.2 It is necessary for utilities to go through changes notified by Hon'ble CERC in above regulations.

Decision required from the Members of the Committee:

NRPC Members may deliberate on major changes notified by Hon'ble CERC.

A.17 Reimbursement of Expenditure of NRPC Sectt. for FY 2023-24 by the Members of NRPC (agenda by NRPC Secretariat)

- A.17.1 RPCs are fully financed by the constituent members as per Ministry of Power, Govt. of India letter dated 23.02.2006. Therefore, constituent members are required to pay annual contribution as decided in NRPC meetings from time to time. Annual contribution is decided on the basis of estimated expenditure of next financial year and balance amount in the NRPC fund (if any).
- A.17.2 As per SOP issued by CEA vide letter dated 01.05.2023, all expenditures other than salary shall be met by RPC fund. Expenditure of Salary head shall be met from budget provided by CEA and will get reimbursed from RPC fund to CEA on quarterly basis.
- A.17.3 Annual Budget for FY 2023-24 has been estimated (**Annexure-IV**) in accordance with expenditure planned for FY 2023-24 pertaining to employee compensation, NRPC office and colony maintenance, AMCs for various services etc.

- A.17.4 So far, annual contribution from members of NRPC has been kept Rs 10, 00,000/- (Rs Ten Lakhs only) since FY 2018-19 to FY 2022-23. During the year 2023-24 additional expenditure is required due to replacement of the lift, one hired EV vehicle for NRPC office, maintenance/painting of NRPC office & colony building, renewal of various AMCs and procurement of laptop/desktop computers etc.
- A.17.5 Keeping in view the budget estimates for the financial year 2023-24 and balance amount available in the NRPC Fund, it is estimated that expenditure for additional works shall be met from the existing savings and there is no need for the enhancement of the existing membership fee.
- A.17.6 In view of above, following proposal is put up for the approval:
 - (i) Membership contribution for the year 2023-24 is proposed to be Rs.10 lakh.
 - (ii) It is also proposed that members may complete above reimbursement in NRPC fund by 31.10.2023. As already decided in earlier NRPC meeting, 1% simple interest per month on late payment shall be payable. NRPC would issue demand letters by 01.09.2023 and interest for current FY 2023-24 would be levied from November, 2023 onwards. Payment made during month would also invite 1% interest.

Decision required from the Members of the Committee

NRPC Members may approve the above proposal.

A.18 Outstanding Contribution by the Constituent Members

- A.18.1 NRPC Secretariat has been receiving contribution from most of the constituents in a timely manner except few members. Since FY 2021-22, there has also been provision of penalty of 1% simple interest per month on late payment as decided in NRPC meeting.
- A.18.2 It is informed that till date JKPDCL, JKPDD and DVVNL have pending membership payments of 32 lakhs, 21.8 lakhs and 10.5 lakhs respectively, details of which are mentioned below:

S. No.	Name of Constituent	Financial Year	Outstanding amount (Rs)	Penalty (Rs)
1	JKPDCL/JKPDD	2014-15	11,00,000	-
2	JKPDCL/JKPDD	2015-16	11,00,000	-
3	JKPDCL/JKPDD	2018-19	10,00,000	-
4	JKPDCL/JKPDD	2019-20	10,00,000	-

5	JKPDCL/JKPDD	2021-22	10,00,000	1,80,000
6	Dakshinanchal Vidyut Vitran Nigam Limited	2022-23	10,00,000	50,000
		Total	64,53,000) Rs

A.18.3 In this regard, pending payment status was discussed in various meetings and several reminders and D.O. letters have also been communicated by NRPC Secretariat (copy enclosed as **Annexure-V**), however above payment is pending till date. Members may appreciate that the timely payment of contribution fee is required for smooth functioning of NRPC secretariat.

Decision required from the Members of the Committee

Members may kindly deliberate the above issue and decide the appropriate action in the matter.

ANNEXURE 16

Annexure-I

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, प्रदीप कुमार सिन्हा सचिव भारत सरकार PRADEEP K. SINHA Secretary Government of India



Ministry of Power Shram Shakli Bhawan New Delhi - 110001

D.O. No.20/6/2014-OM

Dear Shri Negi,

As you are aware, India has one of the largest A.C. Synchronous Transmission Grids in the world with more than 3 lakhs circuit kms of 220kV and above lines which form the backbone of the Indian Power System.

2. However, this huge network needs to be operated in a sustained and secure manner, particularly, during the time of natural disasters. Failure to do so leads to severe constraints not only in meeting the power demand but also poses serious problems in maintaining safety and security of the Grid. Difficult situations came to light in the wake of recent natural disasters, such as, floods in J&K and Phailin as well as Hud-Hud cyclone in Odisha and Andhra Pradesh. These disasters caused extensive damage to transmission networks resulting in wide spread disruption of many important transmission links and substations affecting power supply for long periods due to the time taken in restoration.

3. You would appreciate that under such adverse situation, the availability of an effective mechanism for emergent restoration of transmission lines in the shortest possible time is of utmost importance. Immediate and temporary restoration of transmission networks is possible by deploying the "Emergency Restoration Systems (ERS)." Grid Standards notified by the Central Electricity Authority(CEA) stipulate that every Transmission Licensee shall have an arrangement for restoration of transmission lines of at least 220kV and above through the use of ERS. However, presently the States do not possess such ERS infrastructure. Consequently, POWERGRID becomes the last resort whose ERS infrastructure is also limited.

4. Therefore, deployment of adequate ERS infrastructure with the States is necessary. In this connection, CEA had recently convened a meeting of the representatives from State Utilities, CTUs and RPCs to deliberate and review their preparedness to effectively restore transmission networks in times of emergency. Based on the inputs received, an Indicative requirement of ERS for States has been assessed which is at Annex-1. Further, CEA has also formulated guidelines for planning, deployment and procurement of such ERS infrastructure (Annex-II).

5. I would, therefore, request you to please issue necessary directives to Transmission Utilities/ Transmission licensees operating in your State to take stock, procure appropriate number of ERS infrastructure and place them at strategic locations. Action taken by the Utilities in this regard may be informed to the CEA and the Ministry of Power, at the earliest.

With regards,

Encl: as above

INFORMATION

Shri Ramesh Negi Chief Secretary Govt of Arumachal Pradesh Itanagar

Aisto - As per lift attached. RIGHTTO

Yours sincerely

(Pradeep K. Sinha)

conly

एक कटम खवाता की भंग

विद्युत मंत्रालय श्रम शक्ति भवन नई दिल्ली–110001 Tele:23710271/23711316 Fax:23721487 E-mail:secy-power@nic.in

05.12.2014

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Availability and Proposed Plan for deployment of ERS

SÌ. No.	Region	State Utilities / PGCIL	Availabi lity of ERS sets	Additional d ERS set to be procured	Remark
					-
I	Northern Region				e
	PGCIL	NR1	. 3	1	
		NR2	1	+	1 - A - A - A - A - A - A - A - A - A -
	1	Haryana .	·-	- 1	· · · · · · · · · · · · · · · · · · ·
<u></u>	2	HP ·		1	Hilly terrain
	3	J&K		1	-do-
	4	Punjab		2 .	· · · · ·
	5	Rajsthan		3	
	6	Uttar Pradesh		3	·
	7	Uttarakhand	• •	1	
	8	Chandigarh			
	9	Delhi		1	DTL is procuring 2 ERS sets
ř.			•		
1				-	1
				•	
	10	POWERLINKS	2		1 set each is located in NR and ER; each setting ⁽²⁾ having 14. towers of 400 kV
	Total		6	14	
II	Western Region				
	PGCIL	WR1	2	1	
	÷.	WR2	2	1	4
	10	Gujarat		3	

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1-	11	MP	1	2	J.	7 4
		Chhattisgarh			· · ·	
	12	Maharashtra	2	2		
<u></u>	13	· · · ·		1		
	14	Goa .	-			4 .
	15	D&NH	-			1
	16	Daman& Diu				
	Total		7	9		
III	Southern Region	·				
	PGCIL	SR1	• 1	2 .		
		SR2	1		· · · ·	
	17	ÁP.		3	(To be located at Vishakahapatnam, Vijawada, Nellore)	-
	18	Telengana	-	1		1
	19	Karnataka		2	4	
	20	Kerala .	-	1		1
	21	Tamil Nadu		2	y	
	22	Lakshadweep	-			-
	23	Puducherry				1
	Total		2.	i1 ;		1
177 .	Eastern Region	PGCIL				-
ίλ [.]	PGCIL	ERI	1			
	rocu	ER2	2		6	
		Bihar	2	2	· · · · · · · · · · · · · · · · · · ·	1
	24.			1		-
	25	Jharkband			Existing ERS located	
	26	Orissa		2(compris ing of 12 nos. of 400kV towers	at Bhubaneswar, Chatrapur and Budhipada (each with 14 ERS towers)	
				which is in the process of procurem ent).		
				2		
	27	West Bengal		01	<u> </u>	

-	29	A&N Island			
A	- 30	Sikkim	·. ·		
	Total		8 .	8 .	
γ .	North Eastern Region		-	1.000	
	PGCIL	NER	1		2
	31	Assam	4		
	32	Manipur	-	2	*
	33	Meghalaya		1	
	3.4 -	Nagaland	· •	· •	
	35	Tripura	2.5	•	5.4
	36	Ar. Pradesh	-		
	37	Mizoram .			ć
(*)	Total		5	• 2 .	.
4.00	Total All India	:	28	44	

Note: POWERGRID has informed that they are procuring 6 additional sets of ERS for different regions.

Strategy adopted

1

2

The primary criterion for deciding number of ERS to be arranged by a transmission utility has to be the length of transmission line (ckt-kms) at different voltage levels (e.g 220 kV, 400 kV, 765 kV and +/- 500kV HVDC). Other factors to be taken into account while deciding the number of ERS are

Importance of the line considering security of Grid

2

Areas prone to tower failure and failure pattern in different areas

Command area of the transmission utility and transportability across the command area

For any transmission utility, one set of ERS has been planned to cater to failure of towers for transmission line lengths of up to 5000 Ckt. Kms. Accordingly, two (2) sets of ERS have been planned for transmission line lengths of about 5000 to 10,000 Ckt. Kms. and three (3) sets for more than 10,000 Ckt. Kms and so on.

The transmission Utility with line length less than 500 ckt kms (of 400kV lines) may be given option either to procure ERS or have agreement with other transmission utilities for providing ERS on mutually agreed terms, when need arises.

6/10

<u>JUIDELINES FOR PLANNING, PROCUREMENT AND DEPLOYMENT OF</u> <u>EMERGENCY RESTORATION SYSTEM (ERS)</u>

- One set of ERS should include all accessories [structures (Aluminum Alloy), polymer insulators & hardware, anchor assembly, guy wires, foundation plates, guy plate, other equipment & fittings, special Tools & Plants required for crection & stringing of ERS and trailer mounted detachable containers (without engine) for storage & transportation of ERS hardware / material etc.] and associated software.
- 2. One set of ERS shall be capable of restoring few numbers of suspension towers and tension towers of the transmission line corresponding to the highest transmission voltage in operation in the utility with required type of conductors. The same ERS can be used for lower voltage lines as well. The number of suspension, tension towers, insulators and associated hardware etc., to be included under one set of ERS, may be decided by the utilities at the time of procurement depending on their requirement.
- Proper management of ERS and training of personnel for erection of towers on ERS and use of associated software is essential. A dedicated and specialized erection & commissioning gang, which is properly trained to execute such work, would be required.
- 4. ERS should be utilized only for emergency purposes and the line should be restored on normal towers as early as possible. It should not be a practice to run transmission line on ERS for a long time instead of shifting to normal towers. Moreover, ERS should not be used in new lines under construction. Otherwise, the very purpose of ERS will be defeated.
- The deployment of ERS by any transmission utility / licensee should be reported to concerned RLDC and RPC:
- The transmission utilities may approach Appropriate Commission for approval and initiate procurement process on urgent basis to comply with Grid Standards. Utilities may also approach State Disaster Management Authorities for funding.
- The funding for procurement of ERS could be considered from PSDF for North Eastern States and a proposal be submitted by Member Secretary, NERPC.

Revised Delhi Islanding Scheme-2023

(Agenda for 68th NRPC meeting)

CONTENTS

S.No.	Description
1	Chapter 1: Introduction
2	Chapter 2: Overview of the Delhi Power System
3	Chapter 3: Proposed Islanding scheme for Delhi
4	Chapter 4: List of feeders to be disconnected for Island Formation
5	Chapter 5: Details of Generation considered in Delhi Island
6	Chapter 6: List of designated Load considered in Delhi Island
7	Chapter7: List of Designated Feeders and df/dt settings for post Islanding Load-Generation Balancing
8	Annexures

CHAPTER-1

INTRODUCTION

There were two major grid disturbances, one at 02.33 hrs on 30-07-2012 and second at 13.00 hrs on 31-07-2012. The first grid disturbance affected mainly Northern Region and the second disturbance resulted in collapse of Northern, Eastern, and North-Eastern regional grids.

The Enquiry Committee constituted by Ministry of Power, Govt. of India to look into the detailed causes of these disturbances and to suggest remedial measures, has also inter-alia made the following recommendation:

"9.12 Implementation of islanding schemes

Efforts should be made to design islanding scheme based on frequency sensing relays so that in case of imminent grid failure, electrical islands can be formed. These electrical islands can not only help in maintaining supply to essential services but would also help in faster restoration of grid.

In order to design/ review and to bring out the broad frame work of the islanding scheme for Delhi, a study group was constituted by CEA. This study group comprised representatives from Delhi SLDC, DTL, NRLDC, PGCIL (CTU), NTPC, NRPC, CEA and an expert from IIT. The islanding scheme was prepared based on the deliberations by the study group.

Based on the deliberations by the study group, DTL has prepared and finalized the Islanding scheme in consultation with CEA, PGCIL and NRPC.

As suggested by the study group, initially 4 islands were envisaged for the Delhi system namely:

- 1. Dadri Island
- 2. BTPS Pragati
- 3. CCGT Bawana
- 4. Jhajjar

As per the directions of NRPC, the 4 Islands were merged and a single island was implemented in the year 2016. Since then, lots of changes have taken place in the Delhi Power System and during the last 10 years, Rajghat & BTPS Power House has been de-commissioned and these Generating Stations are no longer operational. Moreover, Dadri State 2, 3 in the Dadri Complex are no longer scheduled by Delhi DISCOMs. Similarly, the DISCOMs are not scheduling from Jhajjar Thermal Power Station and the Pragati Power Station is also not generating as on date due to DISCOMs not scheduling from the station. Currently, Gas Turbine Stations are generating approximately 30MW Power and CCGT Bawana is generating approximately 270MW depending on the availability of Gas.

The Delhi Island implemented currently is a deficit island and there is severe shortage of generators in the island and the DISCOMs are not scheduling the power from the Jhajjar-Pragati – Dadri Generating stations and therefore the chances of the survival of the existing island are very less due to the non-availability of generators which is leading to severe load generation mismatch.

The issue of Delhi Islanding Scheme is regularly discussed in the NRPC OCC Meetings and over a period of time it emerged that the non availability of generation and non scheduling from the Dadri – Pragati – Jhajjar Generating stations by Delhi DISCOMs is a major issue. The issue was discussed in the 198th OCC Meeting held on 22.07.2022 and it was suggested that in view of the allocation of Dadri – II to Haryana and non scheduling of Jhajjar –Dadri-II due to high cost, the Delhi Island may not survive and that it would be better to have two small islands, one for GTs and the other with Bawana since mostly these plants are in operation and therefore survival chances for island would be more. Moreover, these islands could be controlled at 220KV level of DTL by STU and not 33KV level by DISCOM.

It was suggested that DTL may bring out proposal for further discussion at NRPC, Secretariat and NRLDC level. Considering the network availability of generation of CCGT Bawana and IP GT, scheme of a single island was formed and discussed in NRPC Secretariat on 11.11.2022 and the scheme was further modified and the same is detailed in the subsequent chapters.

CHAPTER-2

OVERVIEW OF DELHI POWER SYSTEM

The Generation & Transmission functions in Delhi power system are performed by Indraprastha Power Generation Company Limited/ Pragati Power Company Limited and Delhi Transco Ltd respectively. The distribution functions have been entrusted upon three private companies; BSES Rajdhani Power Limited distributes power in South and West part of Delhi; BSES Yamuna Power Limited distributes power in Central and East part of Delhi; and Tata Power Distribution Co. Ltd. distributes power in North and North-West part of Delhi. Besides these three private distribution companies, the power supply in New Delhi and Delhi Cantonment areas is being managed by New Delhi Municipal Council (NDMC) and Military Engineering Services (MES) respectively.

The transmission network of Delhi consists of a 400 kV ring around the periphery of Delhi inter-linked with the 220 kV network spread all over the city. Delhi meets power requirement from its own generation resources and imports at 400kV Mandola, Maharani Bagh, Bawana, Bamnauli, Ballabhgarh, Dwarka & Tughlakabad and 765 kV Jhatikara sub-stations. The power map of Delhi is attached as Annexure-C.

There has been considerable improvement in the power supply position. The peak demand is increasing every year and DTL has met a highest ever peak demand of 7695MW on 29th June,2022.

Delhi being the Capital city of the country, the importance of maintaining the uninterrupted power supply to VVIP areas like President House, Parliament House including VIP areas of NDMC is of utmost importance and driving force for an efficient islanding scheme.

Delhi meets its power requirement mainly from the following resources:

- Through own Generation,
- From its share in Central Generating Units, and
- Through bilateral agreements

The power is injected in the Delhi transmission system through 765kV, 400kV and 220kV network or in the sub-transmission network at 66kV and 33kV levels. Power injection at 765kV has also started in the NCR region from 765kV grid substation at Jhatikara being managed by PGCIL providing 400kV supply, through 765/400kV transformers, to Mundka and Bamnauli substations of DTL and newly commissioned 400kV Substations Dwarka & Tughlakabad of PGCIL.

The power received at various interconnection points on Delhi ring is directly fed into the 220kV network of DTL. The main transmission system for importing and carrying bulk power in Delhi is the 400kV Double Circuit quad Bersimis Ring which is capable of carrying 4000 MW power through it.

CHAPTER-3

PROPOSED ISLANDING SCHEME FOR DELHI-2023

As suggested by NRPC, the Islanding Scheme is to be prepared considering the available generation of Gas Turbine (GT) and CCGT Bawana in Delhi which is approximately 30MW and 270MW respectively.

Prior to the existing Islanding Scheme as discussed earlier, there was an islanding scheme for IP and Badarpur Complex of Delhi system. The scheme was implemented in 2001 and now has undergone changes from time to time after addition & deletion of generation and load, depending upon prevailing operational philosophy.

Now, the revised islanding scheme is designed for survival of GT and CCGT Bawana to meet the load of Parliament, Central Secretariat, Rashtrapati Bhawan, AIIMS, RML Hospital, Safdarjung Hospital, Sucheta Kriplani Hospital, GB Pant Hospital etc. As per this scheme, when the frequency falls to 47.9 Hz, the proposed Delhi System comprising CCGT Bawana, 400kV Bawana, 400kV Maharani Bagh and associated 220kV system will separate from Northern Grid at Bawana, Maharani Bagh, Sarita Vihar, IP Station to form a Single Island to feed the important load of VVIP establishments/ hospitals.

The load of Railways, Metro, Delhi International Airport Limited (DIAL) and Defense /MES establishment have not been included in the present islanding proposal due to limited generation of only 300MW, involvement of higher no. of elements to be tripped and high reactive power generation due to presence of large no of 220kV Underground Cables Ckts which will decrease the probability of formation of Island. All the VVIP establishments/ hospitals including Delhi International Airport are supposed to have their own back-up power supply arrangement to deal with any emergency condition and Delhi International Airport is already maintaining emergency backup system of 42MVA (14 DG Sets of 3MVA capacity each) apart from UPS for sensitive electronic equipment.

The following elements will be disconnected for formation of Island:

- All 400kV lines except 400kV Bawana-Maharani Bagh ckt- I & II at 400kV Bawana.
- All 400kV lines except 400kV Bawana-Maharani Bagh ckt- I & II at 400kV Maharani Bagh sub-station.

- 220kV BTPS Circuits-I & II will be disconnected at Sarita Vihar.
- All 220kV elements except 100MVA Transformer and 220kV Rohini-II Ckts I & II will be disconnected at Bawana.
- Both Circuits of 220kV Gazipur, Masjid Moth and Lodhi Road will be disconnected at Maharani Bagh.
- 220kV Rajghat Circuits-I&II and 220kV Patparganj Circuits-I&II will be disconnected at IP.
- All Generator Transformers will be disconnected at 220kV Pragati Station
- 220kV Dev Nagar Ckt will be disconnected at Electric Lane (HCML).
- All the Incomers from transformers will be disconnected at Sarita Vihar.
- All the 66kV and 33kV Feeders except those feeders considered for Islanding will be disconnected at IP, Park Street, Electric Lane (HCML), Trauma Center, Rohini-II and GT stations.

The Network for Islanding formation is attached as Annexure A.

The important points for creation of island are as under:

- i. The field breaker at CCGT Bawana opens at 47.4Hz with 2 second time delay.
- ii. The field breaker at GT opens at 47.5Hz with 500 mili second time delay.
- iii. The proposed islanding frequency for separation of the above Delhi Network from Northern Grid will be 47.9Hz. The decision will be taken by under-frequency function enabled in two different relays. DT signal will also be sent to the remote end to ensure isolation.
- iv. The Under Frequency Load Shedding scheme mandated as defense mechanism for Northern Region will remain intact as 49.4Hz, 49.2Hz, 49.0Hz, 48.8Hz.
- v. The df/dt Load Shedding scheme mandated as defense mechanism for Northern Region will remain intact as 49.9Hz with slope of 0.1Hz/Sec, 0.2Hz/sec and 0.3Hz/sec.
- vi. The 66kV, 33kV and 11kV feeders which are not to be considered in the Island, will be disconnected at the frequency of 48.4Hz at Park Street, IP, GT Station, Electric Lane (HCML) and Trauma Center.
- vii. 220kV Bus-Coupler at 220kV S/Stn Pragati shall be closed at 48.2Hz.
- viii. The bus configuration of 220kV level at 400kV S/Stn Bawana shall be such that ICTs nos 1,3 & 5 are parallel on one Bus System (Bus 1,3,5) and similarly ICTs nos 2,4 & 6 are parallel on another Bus System. The configuration is depicted in the layout of 400kV S/Stn Bawana as Annexure B.

Post islanding load-generation balancing Philosophy

For post islanding load-generation balancing, first of all, non-essential load at 400kV Bawana & 220kV S/Stn Rohini-II will be disconnected with the negative slope of 1.0 Hz/Sec to take care of the generation deficit island scenario.

Further, the selected feeders will be allocated for disconnection at Park Street, GT Station, IP, with negative slope of 0.3Hz/Sec, 0.2Hz/Sec and 0.1Hz/Sec and with additional time delay to take care of the generation deficit island scenario to make sure that the above slopes of 0.3Hz/Sec, 0.2Hz/Sec and 0.1Hz/Sec of df/dt relays operate only after formation of Island. The output will be configured with AND gate of the above slopes of df/dt and triggering of Islanding frequency of 47.9Hz.

The Delhi Island is expected to survive when the available generation is 300MW and in case of excess generation, generating units at Pragati and CCGT Bawana will act as per droop characteristics of governor.

After the formation of Island, the restoration of the Delhi system will be done as per the Standard Operating Procedure. The supply to DIAL will be restored by energizing DTLs AIIMS-R. K Puram-Vasant Kunj-Mehrauli-DIAL circuits, while keeping the 220/66kV and 220/33kV transformers at these stations in OFF condition. The supply to Defense feeders will be restored through energizing AIIMS-R.K Puram-Ridge Valley-Naraina circuits, keeping other loads in OFF condition.

LIST OF FEEDERS TO BE DISCONNECTED DURING ISLAND FORMATION

S.No.	Name of the Substation	Name of the Bay/feeder (s) to be disconnected at
		47.9Hz for Delhi Island Formation
		400kV Bahadurgarh
		400kV Bhiwani
		400kV Abdullapur
		400kV Dipalpur
		400kV Mundka Ckts-1 & 2
		220kV Rohini-1 Ckts-1 & 2
		220kV Kanjhawala Ckts-1 & 2
		220kV Shalimar Bagh Ckts-1 & 2
		220kV DSIDC Bawana Ckts-1 & 2
		400kV Ballabgarh
		400kV Dadri
		400kV Mandola Ckts-1& 2
		220kV Masjid Moth Ckts-1 & 2
		220kV Lodhi Road Ckts-1 & 2
		220kV Gazipur Ckts-1 & 2
		220kV BTPS Ckts-1 & 2
		All Incomers from 160MVA/100MVA Transformers
		220kV RPH Ckts-1 & 2
		220kV Patparganj Ckts-1 & 2
		All 33kV feeders other than designated load
		220kV Dev Nagar
		All 66kV & 33kV feeders other than designated load
		220kV RK Puram Ckts-1 & 2
		All 33kV feeders other than designated load
		220kV Dev Nagar Ckt
		All 33kV feeders other than designated load
9	220kV Pragati	All Generator Transformers

DETAILS OF GENERATION CONSIDERED IN DELHI ISLAND

S.No.	Generating Station	Generation (MW)
1	CCGT-Bawana	270
2	GTPS	30
	Total Generation (MW):	300

Total Generation considered in Delhi Island is 300MW.

LIST OF DESIGNATED ESSENTIAL LOAD CONSIDERED IN DELHI ISLAND

S.	Name of the	Designated essential	Max	Min	Max	Min
No.	Substation	load/feeders in Revised	demand (7695 MW)	demand (2527 MW)	demand (5245 MW)	demand (1318 MW)
			Date-	Date-	Date-	Date-
		Delhi Island	29.06.2022	23.05.2022	31.12.2019	08.01.2022
			Time-	Time-	Time-	Time-
			15:10:41	08:30:00	10:45:48	04:00:00
		33kV Bay 19, G.B Pant	19	8	10	6
		33kV Bay 34, Minto Road	16	9	10	6
		33kV Bay-29 & 33kV IG Stadium	19	6	8	4
		33kV Supreme Court	2	1.25	1	0.75
		33kV Bay-2, Nirman Bhawan	8	1	4	1
		33kV Bay-16, Nirman Bhawan	11	2	7	1
		66kV BD Marg- I & II	26	10	20	7
		66kV State Guest House	26	4	14	2
		33kV Hanuman Road	7	2	0	1
		33kV Nirman Bhawan	0	1	4	1
		66kV School Lane-I	17	4	19	1
		66kV School Lane-II	8	3	9	6
		66kV Vidyut Bhawan-I	10	18	17	10
		66kV Vidyut Bhawan-II	34	5	24	0
		33kV AIIMS- I,II&III	18	7	13	4
		33kV Trauma Centre-I & II	8.1	3	8.8	1.6
		33kV Safdarjung Hospital	1.6	1.6	-	1.6
		33kV Raisina I & II	18	5	3	2
		33kV Raja Bazar	10	3	2	1
		Total Load (MW):	258.7	94.1	173.8	56.95

S. No.	220kV DTL S/stn	66kV / 33kV Discoms feeders	Essential Load Feeder/ Connected Grid
			Delhi Gate Booster Pump
			EDP Cellplant Hospital
			LNJP-1
			LNJP-2
			MAMC
			New LNJP Hospital
			DDU Marg Court Complex
			DJB, Ramlila Ground
			SLDC
			GB Pant Hospital
			LNJP Hospital- 110 Beds
			Maulana Azad Dental College
			CPWD-1
			CPWD-2
			DJB STP Delhi Gate
			33 KV MCD Civic Centre
		33kV Supreme court	Supreme Court
		33kV Bay-2 , Nirman Bhawan	
		33kV Bay-16, Nirman	-
		Bhawan	
		66kV BD Marg I & II	
		66kV State Guest House	-
		33kV Hanuman Road	-
		33kV Nirman Bhawan	-
		66kV School Lane-I	
		66kV School Lane-II	
		66kV Vidyut Bhawan-I	
		66kV Vidyut Bhawan-II	
		33kV AIIMS-I,II &III	AIIMS Hospital
		33kV Trauma Centre-I & II	AIIMS Trauma Centre
		33kV Safdarjung Hospital	Safdarjung Hospital
		33kV Raisina I & II	Parliament Annexe
		33kV Raja Bazar	Sucheta Kriplani Hospital

LIST OF DESIGNATED NON-ESSENTIAL LOAD CONSIDERED IN DELHI ISLAND FOR STABILITY OF ISLAND IN CASE OF EXCESS GENERATION

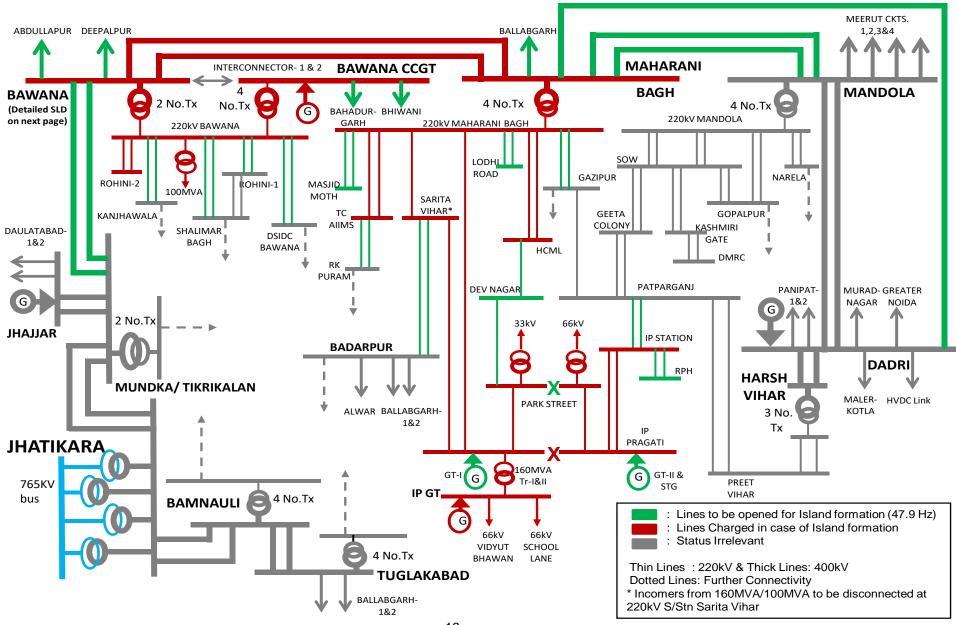
S. No.	Name of the Substation	Designated non- essential load/feeders in Revised Delhi Island	Max demand (7695 MW) Date- 29.06.2022	Min demand (2527 MW) Date- 23.05.2022	Max demand (5245 MW) Date- 31.12.2019	Min demand (1318 MW) Date- 08.01.2022
			Time- 15:10:41	Time- 08:30:00	Time- 10:45:48	Time- 04:00:00
1	400kV Bawana	100MVA Transformer	63	15	45	25
2	220kV Rohini-II	66kV RG-28 Ckt-1	45	18	31	8
		66kV RG-28 Ckt-2	45	18	31	8
		66kV RG-30 Ckt-1	35	8	0	8
		66kV RG-30 Ckt-2	35	8	30	8
		Total Load (MW):	235	67	137	57

LIST OF DESIGNATED FEEDERS AND df/dt SETTINGS FOR POST ISLANDING LOAD-GENERATION BALANCING

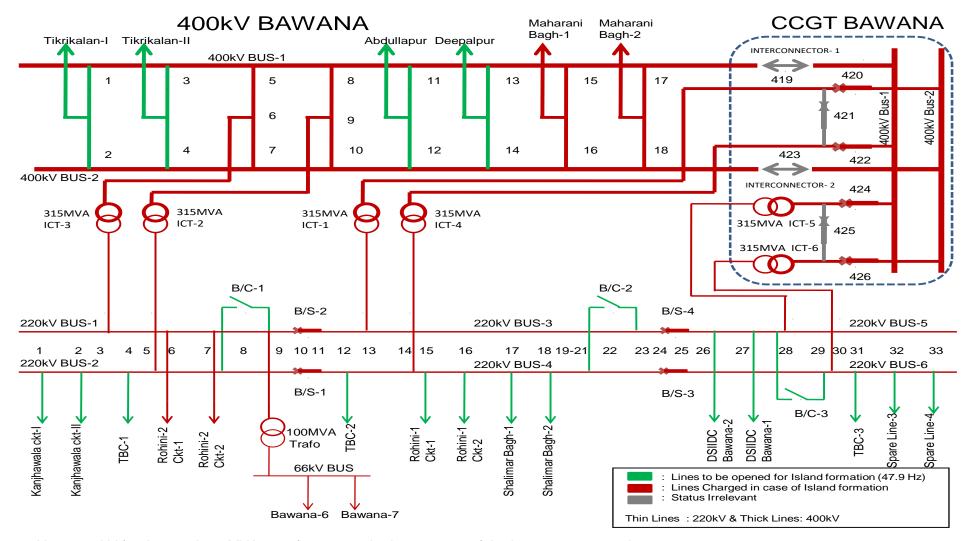
S.	Name of the	Designated load/feeders in	Max demand (7695 MW)	df/dt Setting	Time Delay
No.	Substation	Revised Delhi Island	Date-29.06.2022	Setting	
			Time-15:10:41		
1	220kV I.P	33kV Bay 19, G.B Pant	19	0.2hz/sec	1000ms
		33kV Bay 34, Minto Road	16	0.1hz/sec	4000ms
		33kV Bay-29 & 33kV IG Stadium	19	0.3hz/sec	400ms
		33kV Supreme Court	2	0.2hz/sec	3000ms
		33kV Bay-2, Nirman Bhawan	8		
		33kV Bay-16, Nirman Bhawan	11		
2	220kV Park	66kV BD Marg- I & II	26	0.2hz/sec	2000ms
	Street				
		66kV State Guest House	26	0.3hz/sec	-
		33kV Hanuman Road	7	0.2hz/sec	3000ms
		33kV Nirman Bhawan	0	No tripping	g envisaged.
				Feeder will a	lways be kept
				0	DN
3	220kV GTPS	66kV School Lane-I	17	0.3hz/sec	300ms
		66kV School Lane-II	8	0.3hz/sec	300ms
		66kV Vidyut Bhawan-I	10	0.1hz/sec	5000ms
		66kV Vidyut Bhawan-II	34	0.1hz/sec	5000ms
		33kV AIIMS- I,II&III	18		
		33kV Trauma Centre-I & II	8.1		
		33kV Safdarjung Hospital	1.6		
		33kV Raisina I & II	18		
		33kV Raja Bazar	10		
6	400kV Bawana	100MVA Transformer	63	1hz/sec	Oms
		66kV RG-28 Ckt-1	45	1hz/sec	100ms
		66kV RG-28 Ckt-2	45	1hz/sec	100ms
		66kV RG-30 Ckt-1	35	1hz/sec	200ms
		66kV RG-30 Ckt-2	35	1hz/sec	200ms

ANNEXURE-A

REVISED DELHI ISLAND - JULY 2023



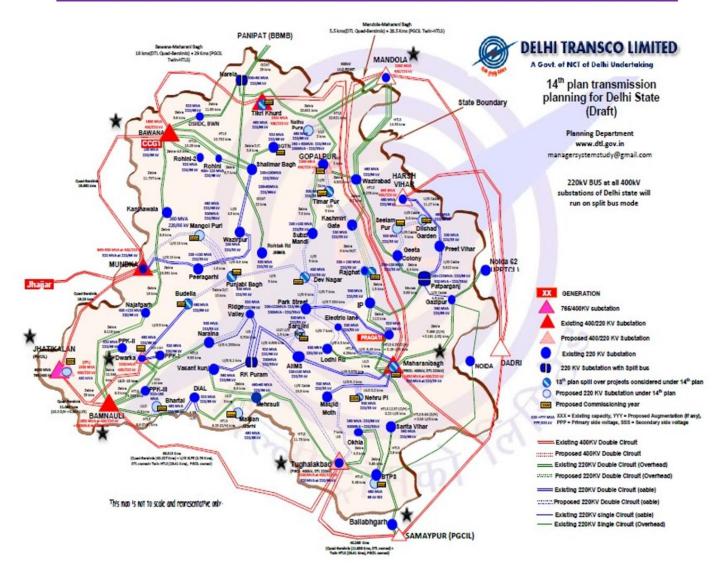
ANNEXURE-B



Note: 220kV feeders and 100MVA transformer can be kept on any of the buses as per requirement.

ANNEXURE-C

Overview of Delhi Transmission Network (Power Map)



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) ① +91-141-2740623,Fax:+91-141-2740794; e-mail: se.pp@rvpn.co.in; website:www.rvpn.co.in



No. RVPN/SE(P&P)/XEN -2/AE-III/ F. 51 /D

Jaipur, Dt.

The Member Secretary (NRPC), Northern Regional Power Committee, A-18,Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi-110016

- **Sub**: Submission of the revised DPR (R-2) along with cost for proposal of installation of 33 kV & 11 kV capacitor banks in Rajasthan
- **Ref**: 1. This office letter with RajKaj reference No. 4133888 dated 26.06.2023 regarding submission of revised DPRs (R-1).
 - 2. Combined study performed by RVPN optimizing the locations for placement of capacitor banks submitted by RVPN vide email on 12.06.2023 with letter RajKaj reference No. 3986454.
 - 3. NRPC e-mail dated 14.07.2023 regarding incorporating comments of NRLDC on proposed study

Area Covered: Jaipur, Ajmer & Jodhpur Zone

Proposals: 1. RRVPNL (Proposal No. 320 of PSDF)

- 2. JVVNL (Proposal No. 349 of PSDF)
- 3. AVVNL (Proposal No. 351 of PSDF)
- 4. JdVVNL (Proposal No. 347 of PSDF)

Dear Sir,

As per the deliberations & discussions held during 77th TESG meeting of PSDF intimated to us vide letter No. NLDC-PSDF/74th TESG/2022-23 dated 11.04.2023, RVPN had performed a combined study optimizing the locations for better placement of 33 kV & 11 kV capacitor banks and removing those capacitor banks which are causing overcompensation. This study was submitted to your good self on dated 12.06.2023 along with NRLDC & CTUIL and was discussed in meeting held on 21.06.2023 at NRPC Secretariat, New Delhi.

As per the outcome of the study & as per discussions in the meeting on 21.06.2023, revised DPRs (R-1) for three DISCOMs & RVPN was submitted on 26.06.2023 for vetting & approval by NRPC, so that the proposals can be finally submitted to PSDF for requisite grant.

NRLDC in the meeting held on dated 21.06.2023 has suggested inclusion of some substations which had been otherwise dropped in the optimization on the basis of the load fluctuations. The same



RajKaj Ref No. : 4422068



communication has been received through e-mail of NRPC dated 14.07.2023 with suggestions to incorporate the comments. In this respect, comments of NRLDC have been incorporated in the revised DPRs/BoQ (R-2) being submitted.

S.No.	Entity	Voltage Level of Capacitor Banks	Capacitor Banks proposed earlier	Capacitor Banks proposed after optimization by STU-R1	Capacitor Banks proposed after optimization by STU-R2
1.	RVPN	33 kV	101	100	100
2.	JVVNL	11 kV	578	509	511
3.	AVVNL	11 kV	732	644	650
4.	JdVVNL	11 kV	911	730	730
	Total		2322	1983	1991

Brief of the revised DPR/BoQ is as shown hereunder:-

- RVPNL- RVPN has removed 01 No. of 33 kV capacitor bank from its previously proposed & NRPC vetted 101 Nos. of capacitor banks.
 Revised BoQ indicating 100 Nos. of locations & revised financial implication is placed at Annexure-I.
- JVVNL- 11 kV capacitor banks at 220 kV Gangapur City & 220 kV Baran have been included in the BoQ.

Revised DPR along with BoQ is placed at Annexure-II.

- **3. AVVNL-** 11 kV capacitor banks at 220 kV Khinvsar have been included in the BoQ. Revised DPR along with BoQ is placed at Annexure-III.
- JdVVNL- No changes in the quantity of 11 kV Capacitor banks for JdVVNL, as capacitor bank at 220 kV GSS, Sayla has been covered by RVPN. Revised DPR along with BoQ is placed at Annexure-IV.

Encl: As Above

(S.C. Meena) Chief Engineer (PP&D), RVPN



RajKaj Ref No. : 4422068



Revised BOQ of capacitor banks as per observations by TESG

Estimate for One No. 33 KV Capacitor Bank Bay (Departmental works)

				(Rs. in lacs.)	
S.No.	Particulars of material	Qty.	Unit	Rate	Amount
1	Structures				
а	Column-X	2	Nos.	3768	7536.00
b	Column-Y	4	Nos.	28385	113540.0
С	Column-Z	0	Nos.	22350	0.00
d	Beam-GF (5-4 mtr)	2	Nos.	18531	37062.00
е	Strs-X 15	3	Nos.	18626	55878.00
f	Strs-33 KV CT	1	Nos.	14689	14689.00
2	Equipments and CR Panels				
а	33 KV SF ₆ Breaker, 110 V DC	1	Nos.	211810	211810.0
b	33 KV CT ratio 250/1A, 2C, 0.5C	1	Nos.	36374	36374.0
С	33 KV LA	0	Nos.	4292	0.00
d	33 KV Isolator with EB (800 A)	2	Nos.	25500	51000.00
е	33 KV Isolator without EB (800 A)	1	Nos.	19600	19600.00
f	2X24 KV Polycon Insulators	36	Stack	728	26208.00
g	33KV, 5.43MVAR Capacitor bank with all accessories	1	Set	997896	997896.0
h	1X33 KV C/R Panel 110V DC, 1 Amp. For capacitor bank	1	Nos.	318391	318391.0
i	33 KV Marshalling Kiosk	1	Nos.	15458	15458.0
3	Control Cables				
а	18X2.5 mm ²	0.5	Km	300900	150450.0

b	6X2.5 mm ²	0.5	Km	103250	51625.00
С	4X4 mm ²	1	Km	112690	112690.00
4	Earthing Material				
а	M.S. Flat 50X10 mm	2.5	MT	55814	139535.00
b	M.S. Round 28 mm dia	1	MT	51023	51023.00
5	Hardwares Clamps and Connectors				
а	S/S H.W. for Panther (bolted type)	0	Set	474	0.00
b	S/T H.W. for Panther (bolted type)	3	Set	1115	3345.00
С	S/T H.W. for Twin Zebra (bolted type)	0	Set	2969	0.00
d	T-Clamp P-P	9	Set	438	3942.00
е	T-Clamp Z-P	3	Set	419	1257.00
f	P.G. Clamp Z-P	3	Set	485	1455.00
g	P.G. Clamp P-P	21	Set	295	6195.00
h	P.G. Clamp Z-Z	0	Set	543	0.00
6	Nuts and Bolts				
а	16X35 mm	0.1	MT	93880	9388.00
b	16X40 mm	0.1	MT	93880	9388.00
С	16X45 mm	0.05	MT	93880	4694.00
d	Sp. Washer 16 mm dia	0.02	Lot	133281	2665.62
7	Disc Insulators				
а	120 KN	25	Nos.	502	12550.00
b	45 KN	10	Nos.	296	2960.00
8	ACSR Panther Conductor	0.25	Km	146858	36714.50
9	ACSR Zebra Conductor	0.25	Km	265592	66398.00
10	Misc Items	LS	LS	35000	35000.00

				Total "A"	2606717.12
11	Erection, Testing & Commissioning charges (@10%)				260671.71
12	Total				2867388.83
	Overhead charges (only allowable charges by PSDF have been considered) : (i) Transportation charges @3% of Cost of Supply (A) (ii) Spares @3% of Cost of Supply (A)				156403.02
				G. Total	3023791.80
	Cost of New Capacitor Bank Installation		Say Rs.	30.24 lacs.	I
	Total Cost of 101 Nos. of Capacitor Banks	30.24*100 = 30.24 Cr.			

Funding Proposed From PSDF:-

L

The total cost of the scheme of Installation/ Re shuffling* of 33 KV, 5.43 MVAR Capacitor Banks at various GSS of RVPN works out to be Rs. **30.24 Crore**.

*Capacitor bank diversions have been removed from the BOQ as per the TESG observations.

Being a project of category-C, 90% funding for this project shall be allowed with a maximum limitation of **27.216 Crore**, as per PSDF norms.

S No	Name of Circle	Name of GSS	No. of Capacitor Banks proposed	
1		132 KV GSS S S NAGAR	1	
2		132 KV GSS BAPINI	1	
3		132 KV GSS DECHU	0	Proposed for deletion
4	SE (T&C), Jodhpur	132 KV GSS CHAMU	2	
5		132 KV GSS Setrawa	1	
6		132 KV GSS KALAU	1	
7		132 KV GSS LOHAWAT	1	
8		132 KV GSS NATHDAU	1	
9	SE (T&C)	132KV GSS Bana ka Bas	1	
10	KANKANI	132KV GSS Bera	1	
11		132KV GSS HATUNDI	1	
12		132 KV GSS REODAR	1	
13		132 KV GSS PALADAR	1	
14		132 kv gss bhadroona	1	
15		132 KV GSS BAGORA	1	
16	SE (T&C) SIROHI	132KV GSS POONASA	1	
17		132 KV GSS Daspan	1	
18		132 KV GSS POSALIYA	1	
19		220 KV GSS SAYALA	1	

20	132 KV GSS SWAROOPGANJ		1
21		220 KV GSS DHORIMANNA	1
22		132 KV GSS SEDWA	1
23		132 KV GSS SATA	1
24	SE (T&C)	132 KV GSS RANASAR	1
25	BARMER	132 KV GSS SAWA	1
26		132 KV GSS MEHLOO	1
27		132 KV GSS CHOUHTAN	1
28		132 KV GSS Gadra road	1
29		132 KV GSS BAJJU	1
30	1	132 KV GSS Bhamattsar	1
31		220 KV GSS Chhattargarh	2
32		132 KV GSS DULCHASAR	1
33	SE (T&C) BIKANER	132 KV GSS DESHNOK	1
34		132KV GSS KITASAR	1
35		132 KV GSS LALAMDESAR	1
36		132 KV GSS MUNDSAR	1
37		132KV GSS SHERERA	1
38		132 KV GSS CHANDAN	2
39	SE (T&C)	132 KV GSS SANGARH	2
40	JAISÀLMÉR	132 KV GSS JHINJHINYALI	1
41		132 KV GSS Ajasar	1

42		132 KV GSS Fatehgarh	1
43	SE(T&C),	132 KV GSS TIBBI	1
44	Hanumanarh	132 KV GSS Pallu	1
45	220 KV GSS Bhadra		1
46	SE (T&C) Ratangarh	220 KV GSS HALASAR	1
47	132KV GSS, SAWAR		1
48	SE (T&C), Ajmer	220 KV GSS Jethana	1
49		132KV GSS Roopangarh	1
50	SE (T&C), Babai 132KV GSS Nangali		1
51		220 KV GSS Khinvsar	1
52	SE (T&C),	132 KV GSS HEESABA	1
53	Merta City	132KV GSS GOGELAW	1
54		132KV GSS Narwa	1
55		220KV GSS DANTARAMGARH	1
56		220KV GSS Dhod	1
57	SE (T&C),	132 KV GSS RVPN KUDAN	1
58	Sikar	132 KV GSS, Ranoli	1
59		132 KV GSS, Water Works, Sikar	1
60		132KV GSS Piprali	1
61	SE (T&C),	132 KV GSS KOTRI	1
62	Bhilwara	132KV GSS Beegod	1
63		132 KV GSS BEGUN	1

64	132 KV GSS BAROLI		1
65	SE (T&C)	132 KV GSS Dhoriya choraha	1
66	SE (T&C), Chittorgarh		
67		132 KV GSS Mokhampura	1
68		132KV GSS Chhoti Sadri	1
69		220 KV GSS BHAWANIMANDI	1
70		220 KV GSS Baran	1
71		132 KV GSS Kishanganj	1
72	SE (T&C), Kota	132 kV GSS RVPN, Mangrol	1
73		132 KV GSS BAPAWAR	1
74		132KV GSS RVPN Mamoni (Baran)	1
75		132 KV GSS,GOVINDGARH(ALWAR)	
76		132 KV GSS, RVPN, Kherli (Alwar)	1
77		132 KV GSS, Laxmangarh	1
78	SE (T&C),	132 KV GSS Ramgarh	1
79	Alwar	132 KV GSS,Pinan	1
80		132 KV GSS Thanagazi	1
81		132 KV TELCO CIRCLE ALWAR	
82		220 KV GSS, RVPN, Bansur (Alwar)	1
83		132 KV GSS Nangal Sherpur	1
84	SE (T&C),	AEN(132 KV GSS) RVPN RIICO DHOLPUR	1
85	Hindaun	132 KV GSS RVPN BARI	2

86		132 KV GSS, Marena	1
87		220 KV GSS Gangapur City	1
88		132 KV GSS Bamanwas	
89		132 KV GSS , Keshoraipatan	2
90	SE (T&C), Sawai 132 KV GSS , Bundi Madhopur		1
91	manopar	132 KV GSS DABI	
92		132 KV GSS Baler	1
93		132 KV GSS DABLANA	
94	220 KV GSS, RVPN, Manoharpur SE (T&C),		1
95	Jaipur Rural	220 KV GSS NIWANA	1

Total

100



JAIPUR VIDYUT VITRAN NIGAM LIMITED Office of the Addl. Chief Engineer (PPM)

CIN: U40109RJ2000SGC016486

Old Power House Premises, Near Ram Mandir Banipark, Jaipur-302016 Email- sermdf@jvvnl.org, Website: energy.rajasthan.gov.in/jvvnl

No. JPD/ACE(PPM)/SE(Reg.)/XEN(DF)/F. /D. 334

Dated : 21.07.2023

To,

Executive Director, NLDC Member Secretary of the Appraisal Committee of PSDF Power System Operation Corporation Ltd. B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi-110016 Tel: 011- 26524527 | Email: nldc.psdf2020@gmail.com

Sub: Submission of Revised Detailed Project Report on observationsof Northern Regional Load Despatch Centre (NRLDC) for Installation of Dynamic/ Automatic Capacitor Banks on 11 kV side of 33/11 kV Sub-stationsunder PSDF Scheme - Jaipur Discom (Proposal No. 349).

Ref:

- 1. Guidelines/ Procedure for Disbursement of Fund from Power System Development Fund
- 2. JVVNL Request Letter No: JPD/SE(Regulation)/XEN(DF)/F./D. 503 dated: 25.08.2022
- 3. Your Letter No. NLDC-PSDF/66th TESG/2022-23 dated 27.09.2022
- 4. JVVNL Clarification Letter No.: JPD/SE(Regulation)/XEN(DF)/F./D 676 dated: 07.10.2022
- JVVNL Request to STU vide Letter No: JPD/SE(Regulation)/XEN(DF)/F./D.717 dated: 13.10.2022
- 6. Your Letter No. NLDC-PSDF/66th TESG/2022-23 dated: 01.11.2022
- 7. STU Letter No. EVPN/SE(P&P)/XEN-2/AE-III/F. 51/D. 1566 dated 22.11.2022
- 8. JVVNL Clarification Letter No.: JPD/SE(Regulation)/XEN(DF)/F./D.847 dated: 24.11.2022
- 9. NLDC-PSDF/70th TESG/2022-23 dated 16.01.2023
- 10. JVVNL Clarification Letter No.: JPD/ACE(PPM)/XEN(DF)/F./D 999 dated: 17.01.2023
- 11. NLDC-PSDF/73rdTESG/2022-23 dated 06.03.2023
- 12. JVVNL Clarification Letter No.: JPD/ACE(PPM)/XEN(DF)/F./D 1134 dated: 14.03.2023
- 13. 2nd System Studies Sub-Committee Meeting held on dated 04.04.2023
- 14. Your office email dated 04.05.2023 regarding observations
- 15. PSDF Techno-Economic Sub-Group (TESG) Physical Meeting as held on dated 08.05.2023
- JVVNL Letter to STUvide Letter No: 114 dated: 10.05.2023 for finalization of proposed locations
- Study Report duly conducted by Rajasthan Rajya Vidyut Prasaran Nigam Ltd. (RVPN) vide email dated 12.06.2023.
- JVVNL Submission of Revised DPR vide Letter No: JPD/ACE(PPM)/XEN(DF)/F./D. 222 dated: 12.06.2023.
- 19. Northern Regional Power Committee (NRPC) Meeting as held on 21.06.2023
- 20. Comments of Northern Regional Load Despatch Centre (NRLDC) received vide Email Dated 20.07.2023

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Dear Sir/Ma'am,

In view of the above references and based on subsequent discussions, JVVNL had submitted the necessary details of the project pertaining to Installation of Dynamic/ Automatic Capacitor Banks on 11 kV side of 33/11 kV Sub-stations in JVVNL, including revised detailed project report, annexures and clarifications to the appraisal committee vide letter no. JPD/ACE(PPM)/XEN(DF)/F./D 999 dated 17.01.2023.

On 06.03.2023,NLDC's 73rdMeeting of the Techno-Economic Sub Group (TESG) was held whereindata gaps, observations and further requirements from the respective entity were "discussed, Further, 2,"System Studies Sub-Committee Meeting held on dated 04.04.2023 for deliberately discussion on the requirement of Dynamic/ Automatic Capacitor Banks on 11 kV Side of 33/11 kV sub-stations under Power System Development Fund (PSDF)-Phase-I Scheme in Jaipur Discom. Subsequently,data gaps / observations were received on dated 04.05.2023 and request for attending PSDF Techno-Economic Sub-Group (TESG) physical meeting were made.

In reference to our physical meeting on dated 08.05.2023, the appraisal committee of PSDF decided to conduct a study of various 11 kV feeders for analyzing 33/11 kV sub-station wise Reactive Power (MVAr) requirements. Also, Rajya Vidyut Prasaran Nigam Ltd. (RVPN, Jaipur) was nominated to fix up the locations of the proposed 33/11 kV sub-stations in consultation of Rajasthan Discoms for installation of APFC.

As per directives fromappraisal committee, JVVNL submitted the detailed list of the 33/11 kV Sub-stations including 220/132/33 kV or 132/33 kV Grid Sub-stations duly mapped vide Letter No. 114 dated 10.05.2023 for vetting the locations as provided by JVVNL and also for further submission of study report to appraisal committee within the due date for the release of PSDF funds. Subsequently, JVVNL submitted revised detailed project reports including supporting documents & annexures to NLDC vide Letter No. JPD/ACE(PPM)/XEN(DF)/F./D. 222 dated: 12.06.2023.

In view of above submissions, Northern Regional Power Committee (NRPC) Meeting was held on dated 21.06.2023 where the proposed locations for installation of capacitor banks under RVPN & Rajasthan Discoms were discussed.Finally, it was analyzed that from the existing list of proposed locations, two (02) of the 33/11 kV Sub-stations (Saloda&Shyampura) were mandated due to excessive voltage fluctuationsand hence, directed to incorporate both of the sub-stations.

In view of above and based on revised inputs received from RVPN / NRLDC dated 20.07.2023, JVVNL is hereby submitting our revised proposal(Rs. 106.99 Cr.) including Annexures (I to IV) and detailed list of proposed 33/11 kV Sub-stations to facilitate identification, prioritization, and appraisal of the scheme by the Appraisal Committee. Hence, it is to request that in-principle approval may be granted towards release of funding for Installation of Dynamic/ Automatic Capacitor Banks at specified 33/11 kV sub-stations of Rs.95.92 Cr. (*i.e. 90% of total estimated cost*) as a grant while balance cost of Rs. 10.66 Cr. shall be in form of internal/ externalsource of funding.

Addl. Chief Engineer (PPM)

Enclosures:

- 1) Annexure A: Revised Format (I to IV) duly signed by authorized representative.
- Annexure B: Revised Detailed Project Report including revised list of 33/11 kV Sub-stations and Cost Estimation Summary including detailed Bill of Quantity (in soft copy).

Yours Sincerely, (Umesh Supta) Addi Chief Engineer (PPM) IVVNL, Jaipur,

Copy to the following for information:

- 1. Director (Technical), JVVNL, Jaipur.
- 2. Director (Finance), JVVNL, Jaipur.
- 3. TA to Chairman Discom, Jaipur.
- 4. TA to Managing Director, JVVNL, Jaipur.
- 5. SE (P&P), RVPN, JVVNL, Jaipur.

Add JVVNL, Jaipur

1 Installation of 1587 kVAr Automatic 11 kV Capacitor Bank Including procurement, Installation, commissioning and testing Nos. 498 20.85 1 (For 3.15/5 MVA) Installation of 3174 kVAr Automatic 11 kV Capacitor Bank Including procurement, Installation, commissioning and testing Nos. 13 24.46	Sr. No.	mane or nerris	Unit	Qty. (Nos.)	Unit Rates (In Lakhs)	Amount (In Cr.)
2 procurement, installation, commissioning and testing Nos. 13 24.46	·* :		Nos.	498		103.8
((Full a high)	2	Installation of 3174 kVAr Automatic 11 kV Capacitor Bank including	Nos.	13	24.46	3.18

Contribution

Grant under PSDF Scheme JVVNL Internal / External Source

90% 96.29 10% 10.70

JVVNL, Jaipur

Garage.

	Cost Reference - NSEDCL	Approv	ec Rateli		
Sr. No.	Name of Items	Unit	Qty.	Unit Rates	Amount (In Rs.
1	2	10.4	4	5	6
1	12.65 kV, 1587 kVAr (11 KV, 1.2 MVAR), 3-Phase, 50 Hz, Dutdoor Type, CRCA panel having step as 396.75 Kvar + 396.75 kVAr +793.5 kVAr at 12.65 KV. Bank shall be complete with Capacitor units of 132.25 kVAr for 396.75 KVAR & 264.5 kVAr for 793.5 KVAR step at 7.3 KV, including allied material such as suitable size of Aluminum busbars epoxy insulators, HRC fuses, Vacuum contactor, series reactors, RVT, etc shall also be housed in same cubicle in the below mentioned quantity	Nos.	1		
a)	11 kV, 0.2%, Aluminium Wound, Dry type Series reactors suitable for 396.75 kVAr	Nos.	6	1,016,949.00	1,016,949.00
b)	11 kV, 0.2%, Aluminium Wound, Dry type Series reactors suitable for 793,5 kVAr	Nos.	3		
c]	11 kV, 1-Phase Dry, AN-Cooled RVT	No.	1		
d)	11 kV/400 Amp, Indoor type Vacuum contactor	Nos.	3	f 1	
e)	Surge Suppressor	No.	1		
f)	IP 55, Outdoor CRCA cubicle panel for accommodating capacitors, series reactor, vacuum contactor, surge arrestor fuses along with canaopy		1		
s)	C & R Panel with Automatic Control Unit with APFC relay and Neutral Displacement relay	Set	1		
2 .	11 KV isolator with EB (800 A) with elevating structure	No.	1	30,025.00	30,025.00
3	11 KV isolator without ES (800 Amp.) with elevating structure	No.	1	26,630.00	26,630.00
4	9 kV, 10 kA, Station Class, Lightning Arrestors	Set	1	10,260.00	10,260.00
5	*Cable Support Structure, Clamps, Connectors, Earthing MS Flats 50 x 6, 3 Mtr long Earthing Cl Pipe Dia 150 mm, Dog Conductor	LS	1	61,506.95	61,506.95
6	11 KV, 3 x 185 sqmm, HT XLPE Cable	Mtr.	20	858.00	17,160.00
-7.	Outdoor cable jointing kits	No.	2	1,907.00	3,814.00
8	11 kV VCB (Klosks Type) (800 Amp.) Switchgear with complete arrangement with adopter panel for connection with existing 11 kV bus bar	No.	1	858.00 1,907.00 117,466.00	117,456.00
9	**Control cables of various sizes	LS	1	43,818.20	43,818.20
1992	11 KY CT 400 - 200/5 A Outdoor Type	Nos.	3	10,611.00	31,833.00
11	24 Volt / 200 AH Battery with Battery Charger (For Capacitor's VCB)	Nos.	1	69,000.00	69,000.00
	Sub-Total (A)				1,428,462.15
13	Transportation on material	LS	4%	64	57,138.49
14 -	Erection cost on material	LS	5%	-	71,423.11
15	Insurance, Labour & Finance Cost	LS	3%		42,853.86
	Service Cost	LS	12%		171,415.46
	Sub-Total (B)				171,415.46
17	Total (C) = (A) + (B)		1		1,599,877.61
17	Applicable GST	-	18%	1	287,977.97
18	Price Escalation on cost of material		10%	-	142,846.22
19	Civil Cost	LS	1	53,857.50	53,857.50
	Sub-Total (D)				484,681.68

Addl, Chief Engineer (PPM)

And a state	*Cost Structure for 11 kV	Station Capacito	e Bank - A	WNL	
Sr. No.	Name of Items	Unit	Qty.	Unit Rates	Amount (In Rs.)
1	2	3	4		5
1	Structure for 11 KV CT	Kg	155	51.80	8,029.00
2	Structure for 11 KV LA	Kg	155	51.80	8,029.00
3	G.I. Nut Bolts	Kg	20	82.90	1,658.00
4	Cable Support Structure (2 Nos.)	Kg	200	51.80	10,360.00
5	MS Flat 50 X 6	Kg	235.5	48.50	11,421.75
6	Earthing CI Pipe Dia 150 mm 3 Mtr long	Nos.	3	6300.00	18,900.00
7	Dog Conductor	Mtr.	60	51.82	3,109.20
	Total				61,506.95

And and a state	**Cost Structure for Control Cables					
Sr. No.	Name of Items	Unit	Qty.	Unit Rates	Amount (In Rs.)	
1	2	3	4	TOTAL CONTRACT	5	
1	2C X 2.5 Sq. mm Armoured, Copper	Mtr.	100	55.11	5,511.00	
2	4C X 2.5 Sq. mm Armoured, Copper	Mtr.	275	87.60	24,090.00	
3	7C X 2.5 Sq. mm Armoured, Copper	Mtr.	40	139.19	5,567.60	
4	10C X 2.5 Sq. mm Armoured, Copper	Mtr.	40	216.24	8,649.60	
-	Total				43,818.20	

201	***Cost Structure for Civil Work						
Sr. No.	Parameters	Unit	Qty.	Unit Rates	Amount (In Rs.)		
1	2	3	4		S		
1	Excavation	CuM	8	150.00	1,200.00		
2	PCC	CuM	2.5	4257.00	10,642.50		
3	RCC	CuM	5	5255.00	26,275.00		
4	Steel	Kg	300	51.80	15,540.00		
5	Back Filing	CuM	2	100.00	200.00		
	Total				53,857.50		

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Sr. No.	Parameters	Unit	Qty.	Unit Rates	Amount (in Rs.)
1	2	3	4		5
1	1st Year	dot	1	50000.00	50,000.00
2	2nd Year	Job	1	60000.00	60,000.00
3	3rd Year	Job	1	70000.00	70,000.00
4	4th Year	dol	1	80000.00	80,000.00
5	5th Year	dol	1	90000.00	90,000.00
-	- Total				350,000.00
	Total AMC Cost after consid	ering 496 Nos. APFC			197,050,000.00

X. Addl.Chief Engineer (PPM)

1

Sr. No.	Name of Items	Unit	Qty.	Unit Rates	Amount (In Rs.)
1	2	3	4		5
•	12.65 kV, 3174 kVAr, 3-Phase, 50 Hz, Outdoor Type, CRCA panel having 4 step as 396.75 kVAr + 396.75 kVAr +1190.25 kVAr +1190.25 kVAr at 12.65 KV. Bank shall be complete with Capacitor units of 132.25 kVAr for 396.75 kVAr & 396.75 kVAr for 1190.25 kVAr at 7.3 kV including allied material such as suitable size of Aluminum busbars epoxy insulators, HRC fuses, Vacuum contactor, series reactors, RVT, etc. with details as under	Nos.	1.		
a)	11 kV, 0.2%, Aluminium Wound, Dry type Series reactors suitable for 396.75 kVAr	Nos.	6	1,271,186.00	1,271,185.00
b)	11 kV, 0.2%, Aluminium Wound, Dry type Series reactors suitable for 1190.25 kVAr	Nos.	6		
¢)	11 kV, 3-Phase dry type RVT	No.	1		
d)	11 kV/400 Amp, Indoor type Vacuum contactor	Nos.	4		
e)	Surge Suppressor	No.	1		
f)	IP 55, Outdoor CRCA cubicle panel for accommodating capacitors, series reactor, vacuum contactor, surge arrestor fuses along with canaopy	Set	1		
8)	C & R Panel with Automatic Control Unit with APFC relay and Neutral Displacement relay	Set	1		
2	11 KV Isolator with EB (800 A) with elevating structure	No.	1	30,025.00	30,025.00
3	11 KV Isolator without £8 (800 Amp.) with elevating structure	No.	1	26,630.00	26,630.00
4	9 kV, 10 kA, Station Class, Lightning Arrestors	Set	1	10,260.00	10,260.00
5	*Cable Support Structure, Clamps, Connectors, Earthing MS Flats 50 x 6, 3 Mtr long Earthing CI Pipe Dia 150 mm, Dog Conductor	LS	1	61,506.95	61,506.95
6	11 kV XLPE insulated 3x185 mm ² Armoured	Mtr.	20	858.00	17,160.00
8	Outdoor cable jointing kits	ND.	2		3,814.00
'9 ^{''}	11 kV VCB (Kiosks) (800 Amp.) Switchgear with complete arrangement with adopter panel for connection with existing 11 kV bus bar	No.	1	858.00 1,907.00 117,466.00	117,466.00
10	**Control cables of various sizes	LS	1	43,818.20	43,818.20
11	11 kV CT 400 - 200/5 A Outdoor Type	Nos.	3	10,611.00	31,833.00
12	24 Volt / 200 AH Battery with Battery Charger (For Capacitor's VCB)	Nos.	1	69,000.00	69,000.00
	Sub-Total (A)				1,682,699.15
13	Transportation on material	LS	4%		67,307.97
14	Erection cost on material	LS	5%	•	84,134.95
15	Insurance, Labour & Finance Cost	LS	3%	-	50,480.97
	Service Cost	LS	12%	•	201,923.90
	Sub-Total (B)				201,923.90
_	Total (C) = (A) + (B)			Sec. 19	1,884,623.05
17	Applicable GST	1	18%	•	339,232.15
18	Price Escalation on cost of material	-	10%	-	168,269.92
19	***Civil Cost	LS	1	53,857.50	53,857.50
	Sub-Total (D)		and the second data where the second data wh	the second se	561,359.56

Addl.Chief Engineer (PPM)

THE REAL	Cost Structure for 11 kV Station Capacitor Bank JVVNL						
Sr. No.	Name of Items	Unit	Qty.	Unit Rates	Amount (In Rs.)		
1	2	3	4	Station and a state	5		
1	Structure for 11 KV CT	Kg	155	51.80	8,029.00		
2	Structure for 11 KV LA	Kg	155	51.80	8,029.00		
3	G.I. Nut Bolts	Kg	20	82.90	1,658.00		
4	Cable Support Structure (2 Nos)	Kg	200	51.80	10,360.00		
5	MS Flat 50 X 6	Kg	235.5	48.50	11,421.75		
6	Earthing CI Pipe Dia 150 mm 3 Mtr long	Nos.	3	6300.00	18,900.00		
7	Dog Conductor	Mtr.	60	51.82	3,109.20		
	Total				61,506.95		

27.0

***Cost Structure for Control Cables					
Sr. No.	Name of Items	Unit	Qty.	Unit Rates	Amount (In Rs.) 5
	2	3			
1	2C X 2.5 Sq. mm Armoured, Copper	Mtr.	100	55.11	5,511.00
2	4C X 2.5 Sq. mm Armoured, Copper	Mtr.	275	87.60	24,090.00
3	7C X 2.5 Sq. mm Armoured, Copper	Mtr.	40	139.19	5,567.60
4	10C X 2.5 Sq. mm Armoured, Copper	Mtr.	40	216.24	8,649.60
	Total		9		43,818.20

	***Cost Str	ucture for Civil-Wo	rk		
Sr. No.	Parameters	Unit	Qty. 4 8	Unit Rates	Amount (in Rs.) 5 1,200.00
	2	3			
1	Excavation	CuM			
2	PCC	CuM	2.5	4257.00	10,642.50
3	RCC	CuM	5	5255.00	26,275.00
4	Steel	Kg	300	51.80	15,540.00
5	Back Filing	CuM	2	100.00	200.00
Total					

Sr. No.	Parameters	Unit	Qty.	Unit Rates	Amount (In Rs.)
1	2	3	4		5
1	1st Year	Job	1	50000.00	50,000.00
2	2nd Year	Job	1	60000.00	60,000.00
3	3rd Year	dot	1	70000.00	70,000.00
4	4th Year	80,000.00			
5	5th Year	dot	1	90000.00	90,000.00
Total					350,000.00
Total AMC Cost after considering 13 Nos. APFC					4,900,000.00

10 g 14.

Addi. Chille Inder (1777)

Detailed Project Report

ANNEXURE 'B'

REVISED DETAILED PROJECT REPORT (DPR) FOR

System Improvement Scheme

Installation of Capacitor Banks on 11 kV Side of 33/11 kV Substations for Reactive Power Compensation under Power System Development Fund (PSDF) – Phase 'I'

Estimated Cost: Rs. 106.99 Cr.



JAIPUR VIDYUT VITRAN NIGAM LIMITED

Corporate Identification Number (CIN): U40109RJ2000SGC016486 Office of the Additional Chief Engineer (PPM) Old Power House Premises, Banipark, Jaipur-302016

TELEFAX: 0141-2209533, Email – <u>sermdf@ivvnl.org</u>

Website: www.jaipurdiscom.com

DETAILED PROJECT REPORT

INTRODUCTION

Rajasthan is the largest state in the country, in terms of area, spreading across 3,42,239 Sq. km, which is 10.41% of the nation area. The total population of Rajasthan is nearly 8.1 Crores spread across 33 Districts, of which 75% is rural population. The density of population in Rajasthan is 200 per sq.km which is much lower than the national average of 382 per sq.km. The state is, predominantly, an agrarian society with majority (45%) of the population depending on agriculture activities as source of income, which accounts for around 29.5% of Gross State Domestic Product (GSDP).

Due to this spread of population, meeting power demand, distribution of electricity and maintaining quality power for every category of consumers has always remained a challenge. The state is primarily agricultural base; however, the intensive power is too supplied to the domestic, non-domestic and industrial sector. It has been identified that these loads are highly inductive in nature which need rectification. In this regard, JVVNL has proposed to install dynamic/ automatic capacitor bank under which the capacitive load helps to adjust power factor as close to **'Unity Power Factor'**. The implementation of the project/ scheme will limit the heavy drawal of reactive power from grid and mitigate the risk such as **(a) Overloading of transmission lines; (b) Overloading of transformers at different voltage levels; and (c) Increase in system losses.**

Under JVVNL Discom, efforts have continuously been made to provide requisite reactive power compensation; however, the challenge associated with low voltage at the load end and drawl of heavy reactive power from the grid still persists due to fast growing load demand. Additionally, it has been noticed that the power factor is ranging from 0.80 to 0.90 at urban feeder and 0.75 to 0.80 (or even less) at the rural feeders within the respective circles. In view of this, the **provision through submission of detailed project report has been proposed at various circles having 'power factor less than 0.85'**. The report shall consist of brief background of JVVNL Discom, geographical maps, operational profile, objective, beneficiaries, recent initiatives, technology, cost estimates, timeframe, success criteria etc.

OUR PROPOSAL

1. BACKGROUND

1.1. Introduction

Jaipur Vidyut Vitran Nigam Limited (JVVNL) is a public utility company under the Department of Energy, Government of Rajasthan and is holder of the distribution and retail supply business licenses in the State of Rajasthan *(hereafter referred as "DISCOM")*. The Distribution Company came in to existence on 19 July 2000 pursuant to the "Rajasthan Power Sector Reforms Transfer Scheme, 2000" and restructuring undertaken in the State under which the vertically integrated Electricity Board (Rajasthan State Electricity Board) was unbundled and the power generation, transmission and distribution business was segregated to form 05 successor companies viz.

- a) Rajasthan Rajya Vidyut Utpadan Nigam Limited (RVUN) to manage the electricity generation business of erstwhile RSEB.
- b) Rajasthan Rajya Vidyut Prasaran Nigam Limited (RVPN) to manage the electricity transmission and bulk supply business of erstwhile RSEB.
- c) Ajmer Vidyut Vitran Nigam Limited (AVVNL) to manage the electricity distribution and retail supply business of erstwhile RSEB in Ajmer City Circle, Ajmer District Circle, Bhilwara, Nagaur, Jhunjhunu, Sikar, Udaipur, Chittorgarh, Rajsamand, Banswara, Pratapgarh and Dungarpur Circles.
- d) Jaipur Vidyut Vitran Nigam Limited (JVVNL) to manage the electricity distribution and retail supply business of erstwhile RSEB in Alwar, Bharatpur, Jaipur City, Jaipur District, Dausa, Kota, Jhalawar, Sawai Madhopur, Bundi, Baran, Tonk, Karauli and Dholpur Circles.
- e) Jodhpur Vidyut Vitran Nigam Limited (JdVVNL) to manage the electricity distribution and retail supply business of erstwhile RSEB in Sriganganagar, Hanumangarh, Churu, Bikaner District, Bikaner City, Jaisalmer, Jalore, Barmer, Jodhpur City, Jodhpur District, Sirohi, Jalore, and Pali Circles.

1.2. Geographical Map of Rajasthan Discom



Figure 1: ¹Distribution Company Operating in State of Rajasthan

All the 03 Discoms have been established with the principal object of engaging in the business of distribution and supply of uninterrupted and reliable quality electricity in different districts (JVVNL – 12 Nos., AVVNL – 11 Nos. & JdVVNL – 10 Nos.) of Rajasthan. In view of above geographic locations, the proposal will mainly focus on 'Installation of Capacitor Bank at the 11 kV Side of various 33/11 kV sub-stations' under various Circles of Jaipur Discom.

1.3. Operational Profile

The JVVNL Discom is responsible for operating the distribution assets within the area of Alwar, Baran, Bundi, Bharatpur, Dholpur, Dausa, Jhalawar, Jaipur, Kota, Karauli, Sawai Madhopur and Tonk. Its scope of work and the electricity network (*as on Dec 2021*) are as presented below.

 $^{^{1} \}textbf{Source:} https://energy.rajasthan.gov.in/content/raj/energy-department/en/departments/avvnl/knowledge-base/discom-map.html \\$

Sr. No.	Parameters	JVVNL		
1	Area of Operation	72,475 Sq. KM		
2	Total Population (As per 2011 Census)	256 Lakhs		
3	Total Number of Consumers	59.59 Lakhs		
4	Total Number of Villages	15,145 Nos.		
5	Electrified Villages	14,776 Nos.		
6	Circles	13 Nos.		
7	33/11 kV Sub-stations	1893 Nos.		
8	8 MVA Capacity of 33/11 kV 13,349 MVA Power Transformer			
9	33 kV Line	16,529 KM		
10	11 kV Line	1,85,106 KM		
11	11 kV Feeders	9,466 Nos.		
12	LT Line	1,60,476 KM		
13	11/0.4, 6.35/0.24 kV Sub- station	8,23,939 Nos.		
14	MVA Capacity of Distribution Transformer	18,636 MVA		
15	Load Profile (LV) based on MU	Agriculture & Domestic loads are predominating		
16	Load profile (HV) based on MU	Industrial & Non Industrial, Agriculture, Residential and Commercial		

Table 1: Operational Profile of JVVNL Discom

Further, in terms of electrical connectivity, the JVVNL Discom is connected to Rajasthan Rajya Vidyut Prasaran Nigam Limited network at 33 kV & 11 kV levels. Also, there are few interconnection points with other Discoms.

1.4. Customers Profile

Discom currently serves about 5,038,760 consumers with a total connected load of around 18,446,237 kW under the LT & HT categories of consumers. Hence, category wise break-up of total number of consumers with connected Load as on March 2022 is stated below:

Category (LT)	Consumers (Nos)	Connected Load (kW)
Domestic	3,908,907	6,218,679
Non Domestic	452,080	2,506,429
PSL	7,201	88,901
Agri (M)	565,812	4,536,199
Agri (F)	12,264	112,833
SIP	50,115	393,001
MIP	14,050	761,591
LIP	5,026	3,463,076
PWW (S)	17,737	108,974
PWW (M)	418	20,269
PWW (L)	211	108,406
Mixed Load	4,900	127,185
EV	39	694
Total	50,38,760	1,84,46,237

Table 2: Customer Profile for LT & HT Consumers of JVVNL Discom

2. PROJECT OBJECTIVE

JVVNL believes that there is a need for a consistent and long lasting solution in order to improve & strength the Power Distribution Network with minimum losses in the long run. Also, the distribution system has suffered various challenges such as (a) Unbalanced Load Flow; (b) High Level of Technical Losses; (c) Less System Stability; (d) Poor Voltage Regulation; (e) Low Power Factor; (f) Low Consumer Satisfaction Level etc. which need to be gradually resolve. In this regard, JVVNL Discom is taking up Integrated Planning for Distribution System covering the Renovation & Modernization of the overall network. This will enable relieving congestion and improving the voltage profile at the load end.

"Government of India has finalized the scheme/guidelines for operationalization of PSDF dated 10.01.2014. The provision consists of 'Installation of Shunt Capacitors, Series Compensators and other Reactive Energy Generators including Reactive Energy Absorption, Dynamic Reactive' support etc. for improvement of voltage profile in the Grid".

Hence, this report aims to provide detailed information relating to the project for which Power System Development Fund for current year sought by the JVVNL. The key activity have been identified is to improve power distribution system with the installation of **1587 kVAr & 3174 kVAr Dynamic/ Automatic Capacitor Bank** at the selected 11 kV Side of 33/11 kV Sub-stations within the respective Circle/ Division/ Sub-division which could be possible with the **Power System Development Fund (PSDF)**.

	Installation of Dynamic/Automatic Capacitor Bank under 12 Circles of JVVNL Discom							
Power Factor	Circle	Division	Sub Division	Total 33/11 kV Substation	Feeder Count	Proposed Transformer Capacity (MVA)	Power Transformer Count (Nos.)	
Less						3.15/5	498	
than 0.85	12	46	143	505	2,305	8	13	
Total (In Nos.)						511		

Table 3: Project Estimation for Installation of Capacitor Bank under JVVNL Discom

3. SINGLE LINE DIAGRAM FOR INSTALLATION OF APFC AT VARIOUS 33/11 KV SUB-STATIONS

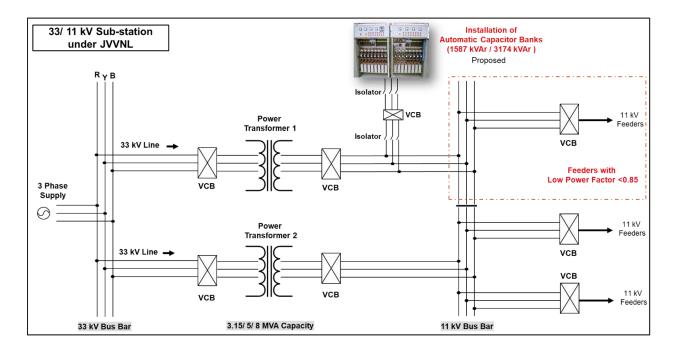


Figure 2: Single Line Diagram – Installation of Dynamic/ Automatic Capacitor Bank

4. PROPOSED SCHEMATIC DIAGRAM FOR APFC PANEL ON 3.15, 5 AND 8 MVA TRANSFORMER AT 33/11 KV SUBSTATIONS

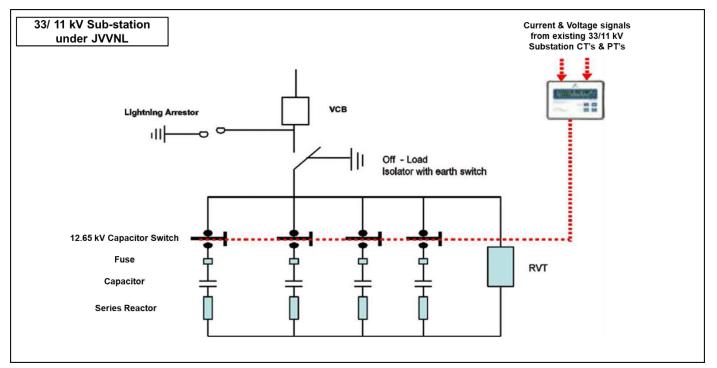


Figure 3: Proposed Schematic Diagram – APFC Panel

5. METHODOLOGY ADOPTED

The methodology as followed by JVVNL, for identification of low power factor (*i.e. below* 0.85) are as stated below.

- a) JVVNL Discom has developed a Feeder Monitoring System (FdrMS) in order to have a 'Real Time' power supply status of 11 kV feeders including installation status, power quality, system reliability, issue tracker, block hours supply, power factors, loan analysis, energy audit, tamper details etc.
- **b)** With the support of FdrMS, the review reports consisting of 'Power Factors Less than 0.90' has been downloaded for the last 01 year (*i.e. from May 2021 till April 2022*).
- c) Analysis were carried-out on the Power Factor, Maximum Current (In Amp.) & Peak Load (In kW) at the various zone, circle, division, sub-division, 33/11 kV substations, 11 kV feeders including its transformational capacity (In MVA).

- **d)** The average power factor for the 12 months were calculated and finalized for 12 circles (except Jaipur, as maximum number of 11 kV feeders are having power factor >0.85) which is enclosed under **Annexure 'I'**.
- e) Further, the automatically generated data are reliable enough for consideration however, JVVNL has taken initiative and finalized data were cross-checked on a sample basis at the various division/ sub-divisions levels.

6. VOLTAGE PROFILE

In addition to the above study, as most of the identified feeders are under rural category having block hours power supply, JVVNL analyzed phase voltage under average load and peak load conditions. In Rajasthan, 11 kV feeders are not segregated from agricultural loads, hence 3-phase supply are provided during peak/ block hours where the phase voltage lies less than 0.9 pu. However, during the non-block hours, the entire loads are shifted to 1-phase supply leading to further voltage drop below 0.9 pu at various 11 kV feeders. In this regard, analysis were carried-out between 10:00 AM – 03:00 PM (peak/ block hour) under three phase (R-Y-B) supply where the voltage at the substations were found to be below 0.9 pu (i.e. below 5.7 kV phase or 9.9 kV line voltage). Hence, the phase voltage profile for some of the feeders on sample basis are as presented below. Also, detailed voltage analysis are included in attached annexure of revised detailed project report.



(a) Feeder – Haripura (Rural) under 33/11 kV Digod Sub-station

(b) Feeder – Dindhor (Rural) under 33/11 kV Tasing Sub-station

éerDatails.	Analysis	LogBook +	Course of	Event.	LondProfile	Dely	Graphs >		
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(c) Feeder – Petrol (Rural) under 33/11 kV Railganv Sub-station

vierDetails	Anitysis	LogBook +	Personal Per	Events	LandProfile	Daily	State +		
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(d) Feeder – Manoharpura (Rural) under 33/11 kV Kashipur Sub-station

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Fander He		Peeder Type	Réié	Ares	1	Andafran - Kalendaria		Getherterte
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	1000000	÷		Correct 12.4	Stanon Stanon		Pore 0.21	(Factor
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(e) Feeder – Ukhlana (Rural) under 33/11 kV Aligarh Sub-station

ederDetails.	Analysis	LogBook +	Hearn.	Events	LoudProlite	Daily	Giaphs -	
Feeder Name	Children .	Feider Type:	Net	Arestill		Editoria (Alacari		Germateria
Industr	Date							
linstants	Data							
Instants Prese	Data Voluçe	904		Curren	qAntsi		Few	n Factor
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Phase	Voltage	(C)			(Rega)		Pow 	

(f) Feeder – Chogai (Rural) under 33/11 kV Ranoli (Tonk) Sub-station

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7. BENEFICIARIES

Adequate reactive power compensation offered salient benefits to the power system which includes voltage regulation (*i.e. voltage control within acceptable limits*), system power losses reduction brought about by power factor improvement and it increases the utilization of connected equipments at the consumer end, improves reliability of transmission system and more importantly efficiency of real power made available at the consumer end. Hence, the major beneficiaries are as stated below.

- a) Rajasthan Rajya Vidyut Prasaran Nigam Limited
- **b)** Jaipur Vidyut Vitran Nigam Limited (*Approx. 20 Lakhs Consumers under 572 Nos.* 33/11 kV Sub-stations of 12 Circles)

8. ON-GOING INITIATIVES

JVVNL is taking active participation for the supply of quality power without compromising the technical and commercial losses in the urban and rural areas. Some of the initiatives includes village electrification, augmentation of transformational capacity, infrastructure development, privatizations through distribution franchisee, meterization, theft control, adopting schemes like Revamped Distribution Sector Scheme (RDSS), PM-KUSUM Scheme etc. Further, for the improvement of power factors at load end, JVVNL has installed approx. 5,62,323 Nos. of LT Shunt Capacitors (3 kVAr - 6 kVAr - 9 kVAr) from 2016-17 onwards. However due to smaller impact of power factor improvement, burning/ failure issue and theft of LT Shunt Capacitors have forced Discom to rethink and initiate the implementation of dynamic/ automatic capacitor bank at the various 11 kV side of the 33/11 kV sub-stations.

Apart from above, majority of the 11kV feeders in JVVNL are having high agriculture load which are being catered using 3.15/ 5 MVA power transformers at substations. **Over the decade, Discom has witnessed a growth of around ~9% in connected load thus leading to increase in power demand.** Also, Government of Rajasthan has mandated supply of day-time power (two blocks supply) to agricultural farmers. To meet this increase in demand and ensure day time supply to agriculture consumers, JVVNL need to augment its existing transformation capacities at Substation level (specifically from 3.15 MVA to 5 MVA) within next 2 years. Hence, under this detailed project report, JVVNL has considered the upcoming requirement and proposed a capacitor bank with common rated capacity for 3.15/ 5 MVA.

9. TECHNOLOGY

- a) For 11 kV, 1587 kVAr & 3174 kVAr Dynamic/ Automatic Capacitor Bank shall include 11 kV Vacuum Circuit Breaker (VCB) Switchgear with complete arrangement with Adopter Panel for connection with existing 11 kV Bus Bar, Capacitor Switch, Reactor, APFC, Indoor Type Automatic Control Unit, Lightning Arrestor, Surge Arrestor, Pin & Post Insulators, PT's-CT's, Power & Control Cables, Junction Box, Supports of various types channels, Nut Bolts, Bus Bar Structure, Laying of Cables, Installation of Energy Meters, Interconnection of VCB and C&R Panel, Battery with Batter Charger etc.
- **b)** The capacitor bank shall consist of variable steps of different kVAr (*details shared under BoQ*). All the capacitor unit shall be controlled through separate capacitor

switch and complete capacitor bank shall be protected through a VCB suitable for capacitor duty.

- c) The rated voltage of the system will be not less than 12 kV and shall be carriedout under 3-Phase Power Supply; 50 Hz frequency level.
- **d)** The automatic power factor control unit shall continuously monitor power factor at 11 kV side of power transformer and automatically switched ON/OFF capacitors units in steps according to the requirement of KVAr to maintain the Target Power Factor (*atleast 0.98*).
- e) The automatic power factor control unit shall be programmable and have data downloading facility. Data Storage capacity of the control unit shall be at least for 45 days with every 15 minutes data. The bidder shall have to provide two data downloading instrument for data download from control unit with necessary BCS in each Circles.
- **f)** The all display meters provided in the control panel shall be digital meters and shall be compatible for Automatic Meter Reading (AMR).
- **g)** There are no low voltage limit for tripping of capacitor bank main VCB or capacitor switch. Also, the power factor control unit and relays provided for the protection of control unit shall be capable to store at least last 05 faults.
- **h)** All equipment and material shall be designed, manufactured and tested in accordance with the latest applicable IS/ IEC standards.
- i) The electrical installation shall meet the requirement of Indian Electricity Rules-1956/CEA safety Regulation 2010 as amended up to date; relevant IS code of practice and Indian Electricity Act-2003 in addition other rules and regulations as applicable to the work shall be followed.

10. TECHNICAL SPECIFICATION OF AUTOMATIC POWER FACTOR CAPACITOR

The technical specifications for the proposed capacitor bank are as presented below:

a) Switching Arrangement: The automatic control unit shall be mounted in the control & relay panel itself to continuously monitor total load kVAr on 11 kV side of power transformer and shall automatically switch ON or switch OFF (variable steps) through VCB operation.

- **b) Time Delay:** The switching ON operation will take place after period of 10 minutes while switching OFF operation of relevant steps will be instantaneous.
- **c) Controls:** The unit shall instantly switch OFF the capacitor bank when the voltage increase by 10% above the rated voltage of 11 kV etc.
- d) Monitoring Facility: A suitable display should be provided to indicate the capacitor current in each phases of the complete capacitor bank. Indications shall also be provided to indicate ON & OFF status of each capacitor bank. Along with audio alarm indicating tripping of capacitor bank and ON /OFF, visual display window be provided on control panel.
- e) Temperature Variation: The control equipment and associate circuitry shall be suitable for operation at an ambient temperature in the range of + 5 deg C to (+) 50 deg C.

Note: The above proposed technology including technical specifications are indicative only, detailed version will be a part of tender documents.

11. MANAGEMENT ARRANGEMENTS

The implementation plan for the project will be **24 months (i.e., 03 months tendering process + 21 months implementation)** from the date of approval from funding agency and shall be executed as per proposed plan. Further, the works under different activities shall be carried out on **turnkey basis** through international or national competitive bidding as per the guidelines of funding agency.

The project shall cover the overall procurement, installation, commissioning, testing and 05 years maintenance of dynamic/ automatic capacitor bank and will be divided into two phases (I & II) depending upon the total number of sub-station considered, area covered, time frame and available fund. Here, providing the estimate for **'Phase – I'**.

12. COST ESTIMATES

The cost estimation of installation of **511 Nos. of Dynamic/ Automatic 11 kV Capacitor Bank** under Power System Development Fund is stated below.

Sr. No.	Name of Work	Unit	Qty.	Unit Rate (Rs. Lakhs)	*Amount (In Rs. Cr.)
1	Installation of 1587 kVAr Automatic 11 kV Capacitor Bank including procurement, installation, commissioning and testing. (For 3.15/5 MVA)	Nos.	498	20.85	103.81
2	Installation of 3174 kVAr Automatic 11 kV Capacitor Bank including procurement, installation, commissioning and testing. (For 8 MVA)	Nos.	13	24.46	3.18

***Note:** The above estimated cost is inclusive of Transportation on material, Erection cost on material, Insurance, Labour & Finance Cost, Service Cost, Price Escalation on cost of material, Civil Cost, applicable GST and other taxes, except AMC.

13. BILL OF QUANTITY (BOQ)

(A) Cost break-up of 11	kV Switched Ca	apacitor Bank a	t 3.15 /	5 MVA Power Transformer
(,				• • • • • • • • • • • • • • • • • • • •

	BoQ for 11 kV Dynamic/ Automatic Capacitor Bank (APFC) for Rural Areas - JVVNL (Cost Reference - MSEDCL Approved Rate)								
Sr. No.	Name of Items	Unit	Qty.	Unit Rates	Amount (In Rs.)				
1	2	3	4	5	6				
1	12.65 kV, 1587 kVAr (11 KV, 1.2 MVAR), 3- Phase, 50 Hz, Outdoor Type, CRCA panel having step as 396.75 kVAr + 396.75 kVAr +793.5 kVAr at 12.65 KV. Bank shall be complete with Capacitor units of 132.25 kVAr for 396.75 KVAR & 264.5 kVAr for 793.5 KVAR step at 7.3 KV, including allied material such as suitable size of Aluminum busbars epoxy insulators, HRC fuses, Vacuum contactor, series reactors, RVT, etc shall also be housed in same cubicle in the below mentioned quantity	Nos.	1	1,016,949.00	1,016,949.00				
a)	11 kV, 0.2%, Aluminium Wound, Dry type Series reactors suitable for 396.75 kVAr	Nos.	6						

Detailed Project Report

b)	11 kV, 0.2%, Aluminium Wound, Dry type Series reactors suitable for 793.5 kVAr	Nos.	3		
c)	11 kV, 1-Phase Dry, AN-Cooled RVT	No.	1		
d)	11 kV/400 Amp, Indoor type Vacuum contactor	Nos.	3		
e)	Surge Suppressor	No.	1		
	IP 55, Outdoor CRCA cubicle panel for				
f)	accommodating capacitors, series reactor, vacuum contactor, surge arrestor fuses along with canaopy	Set	1		
g)	C & R Panel with Automatic Control Unit with APFC relay and Neutral Displacement relay	Set	1		
2	11 KV Isolator with EB (800 A) with elevating structure	No.	1	30,025.00	30,025.00
3	11 KV Isolator without EB (800 Amp.) with elevating structure	No.	1	26,630.00	26,630.00
4	9 kV, 10 kA, Station Class, Lightning Arrestors	Set	1	10,260.00	10,260.00
5	*Cable Support Structure, Clamps, Connectors, Earthing MS Flats 50 x 6, 3 Mtr long Earthing CI Pipe Dia 150 mm, Dog Conductor	LS	1	61,506.95	61,506.95
6	11 KV, 3 x 185 sqmm, HT XLPE Cable	Mtr.	20	858.00	17,160.00
7	Outdoor cable jointing kits	No.	2	1,907.00	3,814.00
8	11 kV VCB (Kiosks Type) (800 Amp.) Switchgear with complete arrangement with adopter panel for connection with existing 11 kV bus bar	No.	1	117,466.00	117,466.00
9	**Control cables of various sizes	LS	1	43,818.20	43,818.20
10	11 kV CT 400 - 200/5 A Outdoor Type	Nos.	3	10,611.00	31,833.00
11	24 Volt / 200 AH Battery with Battery Charger (For Capacitor's VCB)	Nos.	1	69,000.00	69,000.00
	Sub-Total (A)				1,428,462.15
13	Transportation on material	LS	4%	-	57,138.49
14	Erection cost on material	LS	5%	-	71,423.11
15	Insurance, Labour & Finance Cost	LS	3%	-	42,853.86
	Service Cost	LS	12%	-	171,415.46
	Sub-Total (B)	•			171,415.46
	Total (C) = (A) + (B)				1,599,877.61

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17	Applicable GST	-	18%	-	287,977.97	
18	Price Escalation on cost of material	-	10%	-	142,846.22	
19	***Civil Cost	LS	1	53,857.50	53,857.50	
	Sub-Total (D)				484,681.68	
	Grand Total (E) = (C) + (D)					

Note 1: As JVVNL is not under practice of regular installation of APFC, hence the cost estimation has been considered from recently approved PSDF Scheme of MSEDCL.

Note 2: As per the monthly Wholesale Price Index (WPI) issued by office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, following variation is observed in the prices of following items:

Commodity Name	WPI for 2020-21	WPI for 2021-22	Variation (%)	
commounty Name	(Base 2011-12)	(Base 2011-12)	Variation (76)	
Iron Ore	102	156.2	+53%	
Electric insulating material	105.4	107.1	+2%	
Electrical relay/ conductor	112.3	129.1	+15%	
Batteries	117.9	123.1	+5%	

Therefore, looking the variations in some of the materials as required for the installation of capacitor banks at various 33/11 kV S/s over the period (24 months), JVVNL has considered price escalation of 10%.

Additionally, the cost towards annual maintenance charges (as shown below) shall be borne by JVVNL as internal / external source of funding.

Annu	Annual Maintenance Charges after Guarantee Period for 05 Years (1 Year + 5 Year's)							
Sr. No.	Parameters	Unit	Qty.	Unit Rates	Amount (In Rs.)			
1	2	3	4	5	6			
1	1st Year	Job	1	50000.00	50,000.00			
2	2nd Year	Job	1	60000.00	60,000.00			
3	3rd Year	Job	1	70000.00	70,000.00			
4	4th Year	Job	1	80000.00	80,000.00			
5	5th Year	Job	1	90000.00	90,000.00			
	Total			-	350,000.00			
	Total AMC Cost for 05 Years considering 563	3 Nos. o	f APFC		197,050,000.00			

Item Wise Cost Breakup:

(A.1) *Cost Structure for 11 kV Station Capacitor Bank – For 1587 kVAr

Sr. No.	Name of Items	Unit	Qty.	Unit Rates	Amount (In Rs.)
1	2	3	4	5	6
1	Structure for 11 KV CT	Kg	155	51.80	8,029.00
2	Structure for 11 KV LA	Kg	155	51.80	8,029.00
3	G.I. Nut Bolts	Kg	20	82.90	1,658.00
4	Cable Support Structure (2 Nos.)	Kg	200	51.80	10,360.00
5	MS Flat 50 X 6	Kg	235.5	48.50	11,421.75
6	Earthing CI Pipe Dia 150 mm 3 Mtr long	Nos.	3	6300.00	18,900.00
7	Dog Conductor	Mtr.	60	51.82	3,109.20
	Total				61,506.95

(A.2) ** Cost Structure for Control Cables – For 1587 kVAr

Sr. No.	Name of Items	Unit	Qty.	Unit Rates	Amount (In Rs.)
1	2	3	4	5	6
1	2C X 2.5 Sq. mm Armoured, Copper	Mtr.	100	55.11	5,511.00
2	4C X 2.5 Sq. mm Armoured, Copper	Mtr.	275	87.60	24,090.00
3	7C X 2.5 Sq. mm Armoured, Copper	Mtr.	40	139.19	5,567.60
4	4 10C X 2.5 Sq. mm Armoured, Copper		40	216.24	8,649.60
	Total			43,818.20	

(A.3) *** Cost Structure for Civil Work – For 1587 kVAr

Sr. No.	Parameters	Unit	Qty.	Unit Rates	Amount (In Rs.)
1	2	3	4	5	6
1	Excavation	CuM	8	150.00	1,200.00
2	PCC	CuM	2.5	4257.00	10,642.50
3	RCC	CuM	5	5255.00	26,275.00
4	Steel	Kg	300	51.80	15,540.00
5	Back Filing	CuM	2	100.00	200.00
	Total				53,857.50

	BoQ for 11 kV Dynamic/ Automatic Capacito (Cost Reference - MSEDC)				IVVNL
Sr. No.	Name of Items	Unit	Qty.	Unit Rates	Amount (In Rs.)
1	2	3	4		5
1	12.65 kV, 3174 kVAr, 3-Phase, 50 Hz, Outdoor Type, CRCA panel having 4 step as 396.75 kVAr + 396.75 kVAr +1190.25 kVAr +1190.25 kVAr at 12.65 KV. Bank shall be complete with Capacitor units of 132.25 kVAr for 396.75 kVAr & 396.75 kVAr for 1190.25 kVAr at 7.3 kV including allied material such as suitable size of Aluminum busbars epoxy insulators, HRC fuses, Vacuum contactor, series reactors, RVT, etc. with details as under	Nos.	1		
a)	11 kV, 0.2%, Aluminium Wound, Dry type Series reactors suitable for 396.75 kVAr	Nos.	6		
b)	11 kV, 0.2%, Aluminium Wound, Dry type Series reactors suitable for 1190.25 kVAr	Nos.	6	1,271,186.00	1,271,186.00
c)	11 kV, 3-Phase dry type RVT	No.	1		
d)	11 kV/400 Amp, Indoor type Vacuum contactor	Nos.	4		
e)	Surge Suppressor	No.	1		
f)	IP 55, Outdoor CRCA cubicle panel for accommodating capacitors, series reactor, vacuum contactor, surge arrestor fuses along with canaopy	Set	1		
g)	C & R Panel with Automatic Control Unit with APFC relay and Neutral Displacement relay	Set	1		
2	11 KV Isolator with EB (800 A) with elevating structure	No.	1	30,025.00	30,025.00
3	11 KV Isolator without EB (800 Amp.) with elevating structure		1	26,630.00	26,630.00
4	9 kV, 10 kA, Station Class, Lightning Arrestors		1	10,260.00	10,260.00
5	*Cable Support Structure, Clamps, Connectors, Earthing MS Flats 50 x 6, 3 Mtr long Earthing CI Pipe Dia 150 mm, Dog Conductor	LS	1	61,506.95	61,506.95

(B) Cost break-up of 11 kV Switched Capacitor Bank at 8 MVA Power Transformers

Detailed Project Report

6	11 kV XLPE insulated 3x185 mm ² Armoured	Mtr.	20	858.00	17,160.00						
8	Outdoor cable jointing kits	No.	2	1,907.00	3,814.00						
9	11 kV VCB (Kiosks) (800 Amp.) Switchgear with complete arrangement with adopter panel for connection with existing 11 kV bus bar	No.	1	117,466.00	117,466.00						
10	**Control cables of various sizes	LS	1	43,818.20	43,818.20						
11	11 kV CT 400 - 200/5 A Outdoor Type	Nos.	3	10,611.00	31,833.00						
12	24 Volt / 200 AH Battery with Battery Charger (For Capacitor's VCB)	Nos.	1	69,000.00	69,000.00						
	Sub-Total (A)				1,682,699.15						
13	Transportation on material	LS	4%	-	67,307.97						
14	Erection cost on material	LS	5%	-	84,134.96						
15	Insurance, Labour & Finance Cost	LS	3%	-	50,480.97						
	Service Cost	LS	12%	-	201,923.90						
	Sub-Total (B)				201,923.90						
	Total (C) = (A) + (B)				1,884,623.05						
17	Applicable GST	-	18%	-	339,232.15						
18	Price Escalation on cost of material	-	10%	-	168,269.92						
19	***Civil Cost	LS	1	53,857.50	53,857.50						
Sub-Total (D) Grand Total (E) = (C) + (D)											
	Grand Total (E) = (C) + (D)										

Note 1: As JVVNL is not under practice of regular installation of APFC, hence the cost estimation has been considered from recently approved PSDF Scheme of MSEDCL.

Note 2: As per the monthly Wholesale Price Index (WPI) issued by office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, following variation is observed in the prices of following items:

Commodity Name	WPI for 2020-21 (Base 2011-12)	WPI for 2021-22 (Base 2011-12)	Variation (%)
Iron Ore	102	156.2	+53%
Electric insulating material	105.4	107.1	+2%
Electrical relay / conductor	112.3	129.1	+15%
Batteries	117.9	123.1	+5%

Therefore, looking the variations in some of the materials as required for the installation of capacitor banks at various 33/11 kV S/s over the period (24 months), JVVNL has considered price escalation of 10%.

Additionally, the cost towards annual maintenance charges (as shown below) shall be borne by JVVNL as internal / external source of funding.

Annua	al Maintenance Charges after Guarantee Period	for 05 Y	ears (1 Ye	ear + 5 Year's)							
Sr. No.	Parameters	Unit	Qty.	Unit Rates	Amount (In Rs.)						
1	2	3	4	5	6						
1	1st Year	Job	1	50000.00	50,000.00						
2	2nd Year	Job	1	60000.00	60,000.00						
3	3rd Year	Job	1	70000.00	70,000.00						
4	4th Year	Job	1	80000.00	80,000.00						
5	5th Year	90000.00	90,000.00								
	Total 350,000.00										
	Total AMC Cost for 05 Years considering 14 Nos. of APFC										

Item Wise Cost Breakup:

(B.1) *Cost Structure for 11 kV Station Capacitor Bank – For 3174 kVAr

Sr. No.	Name of Items	Unit	Qty.	Unit Rates	Amount (In Rs.)
1	2	3	4	5	6
1	Structure for 11 KV CT	Kg	155	51.80	8,029.00
2	Structure for 11 KV LA	Kg	155	51.80	8,029.00
3	G.I. Nut Bolts	Kg	20	82.90	1,658.00
4	Cable Support Structure (2 Nos.)	Kg	200	51.80	10,360.00
5	MS Flat 50 X 6	Kg	235.5	48.50	11,421.75
6	Earthing CI Pipe Dia 150 mm 3 Mtr long	Nos.	3	6300.00	18,900.00
7	Dog Conductor	Mtr.	60	51.82	3,109.20
	Total				61,506.95

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Jaipur Vidyut Vitran Nigam Limited

Sr. No.	Name of Items	Unit	Qty.	Unit Rates	Amount (In Rs.)
1	2	3	4	5	6
1	2C X 2.5 Sq. mm Armoured, Copper	Mtr.	100	55.11	5,511.00
2	4C X 2.5 Sq. mm Armoured, Copper	Mtr.	275	87.60	24,090.00
3	7C X 2.5 Sq. mm Armoured, Copper	Mtr.	40	139.19	5,567.60
4	10C X 2.5 Sq. mm Armoured, Copper	Mtr.	40	216.24	8,649.60
	Total				43,818.20

(B.2) **Cost Structure for Control Cables – For 3174 kVAr

(B.3) ***Cost Structure for Civil Work – For 3174 kVAr

Sr. No.	Parameters	Unit	Qty.	Unit Rates	Amount (In Rs.)
1	2	3	4	5	6
1	Excavation	CuM	8	150.00	1,200.00
2	PCC	CuM	2.5	4257.00	10,642.50
3	RCC	CuM	5	5255.00	26,275.00
4	Steel	Kg	300	51.80	15,540.00
5	Back Filing	CuM	2	100.00	200.00
	Total				53,857.50

14. TIME FRAME PERT CHART

The total duration of the project is considered as **24 months**. The tentative start date shall be considered as the date of receipt of approval from PSDF funding while the completion time is likely to by **end of July 2025.** The detailed time frame is presented below.

													T	IMEL	INE										
		FY 2023-24 F										FY 20	024-2	5					FY 2025-26			,			
Sr. No	Description	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25
Fin	alization of Tender Documents & Issuance of Work Order																								
1	Project Approval																								
2	Conduct of Committee Meeting																								
3	Preparation & Release of Tender Document																								
4	Evaluation, Contract Award and Mobilization																								
Pro	curement, Installation, Commissioning & Testing of Equipments																								
5	1st Disbursement (30% of Grant)				D1																				
6	Procurement, Installation, Commissioning & Testing of Equipments												Р	rogre	essive	Basis	5								
7	Bi-monthly Review Meeting																								
8	Monthly Report Submission																								
9	2nd Disbursement (60% of Grant) i.e. After Utalization of 30% Grant + 10% Self-contribution (JVVNL)										D2														
Co	t Benefit Analysis & Report Submission on Improved Power Factor																								
10	Submission of Draft Report	_																							
11	Final Report Submission																								
12	3rd Disbursement (10% of Grant) i.e. On Completion of Scheme																								D3

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15. SUCCESS CRITERIA & SUSTAINABILITY

To identify the success of any project, it is always necessary to evaluate the standards by which to examine whether the proposed objective, target or outcomes will be achieve or not. Hence, the **Cost-Benefit Analysis** for the 1587 kVAr & 3174 kVAr ratings automatic capacitor bank on the 3.15, 5 & 8 MVA power transformer has been presented below.

		Payb	ack C	alcula	ation fo	or Instal	lation of '	11 kV A	utomat	ic Capad	citor Bar	nk at 33/11 k	/ Sub-st	ation	
	A	ssumptio	ons - L	oad Fa	ictor - 8	0% Avg.	Loading -	54% Av	erage Pl	F - 0.85 C	esired Pl	- 0.98 Initial	Line Los	ses as 20%	
Sr. No.	Transformer Rating (In MVA)	Qty	Total MVA	Factor			Reduction in MVA after Capacitors Bank		of Initial Loss as	Total MWh Drawn in a Year	Saving in MWh	Cost of energy saved per annum @ 4.85/- (2021- 22) per unit	Proposed 11 KV Automatic Capacitor Bank (In kVAr)	Supply, Installation Cost (In Lakhs)	Total Cost (In Cr.)
				80%	54%		0.98		20						
1	3.15	312	983	786	425	360.8842	368.25	24.77	4.95	3161345	156619	759,601,741	1587	20.85	65.05
2	5	186	930	744	402	341.496	348.47	24.77	4.95	2991505	148205	718,792,856	1587	20.85	38.78
3	8	13	104	83	45	38.1888	38.97	24.77	4.95	334534	16573	80,381,137	3174	24.46	3.18
				G	rand Tot	al				6487384	321397	1,558,775,734	-	-	106.99

Total Cost of the Project	:	Rs. 106.99 Cr.
Total Savings with Power Factor Improvement	:	Rs. 155.88 Cr.

Payback Period

Approx. 09 Months

"Further, regional entities are liable for weekly settlement of 'Reactive Energy Charges' in accordance with the CERC (Indian Electricity Grid Code) Regulations, 2010 and amendments thereof, which are sometimes payable or receivable. Due to poor power factor, sometimes Rajasthan accounts for a penalty at the rate of 10 paise/kVArh (*from 03.05.2010 onwards*) reactive charges with escalation factor of 0.5 paise/ kVArh. Also, recent provision of CERC's Draft Indian Electricity Grid Code 2022 recommends the reactive charge at the rate of 5 paise/kVArh w.e.f. the date of effect of final regulations with escalation at 0.5paise/kVArh per year thereafter".

Hence, the draft provision to rate reduction along with saving achieved through installation of capacitor bank will definitely lower down the overall penalty impact. These shall be the contributing factor for the Improvement of Financial Health of Discoms and will leading to a sustainable implementation structure. (*Note: The NRLDC charges is not taken into consideration in above payback calculation*).

Moreover, the capacitor units are used in these capacitor banks are manufactured with the latest design and tested to meet or exceed the requirement of applicable IEC & IS

Standards, it is rated in continuous kVAr, voltage and frequency for operating within the -200 °C to +500 °C ambient temperature rage & designed to produce not less than rated kVA at rated voltage and frequency.

Capacitors will operate safely at 135% of kVAr rating under following condition as:

- kVAr caused by excess at rated frequency.
- kVAr added by the harmonic voltage superimposed on the power frequency voltage.
- kVAr attributable to manufacturing tolerances.

The maximum recommended working voltage of capacitor is 110% of rated voltage. The capacitors include a safely factor that permits them to tolerate without damage momentary over voltage caused due to switching/ load fluctuation.

Thus, it is quite successful and sustainable in the high voltage system.

Detailed Project Report

ANNEXURE 'I'

List of Various 33/11 kV Sub-stations considered for Power Factor Improvement

AJMER VIDYUT VITRAN NIGAM LIMITED

Corporate Identification Number (CIN)- U40109RJ2000SGC016482 Regd. off. Vidyut Bhawan, Panchsheel Nagar, Makarwali Road, ajmer-305004

Office of the Add. Chief Engineer (Projects)

Phone:- 0145-2644551, Email Id:- ceprojectavvnl2023@gmail.com, Website -http://energy.rujasthan.gov.in/avvnl

No. AVVNL/ACE(Projects)/Ajmer/F.PSDF/D- 494 Dt. 2 7 JUL 2023

Sh. Debasis De Executive Director, NLDC Member Secretary of the Appraisal Committee of PSDF Power System Operation Corporation Ltd. B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi-110016

Sub: Submission of revised DPR for installation of dynamic/ automatic Capacitor Banks on 11 kV Side of selected 33/11 kV sub-stations of AVVNL under Power System Development Fund (PSDF Scheme)

Ref: 1. DPR submitted vide this office letter No. D-545 dated 08-09-2022

- 2. PSDF TESG meeting held at New Delhi on 08-05-2023
- 3. Study report conducted by RVPNL
- 4. This office letter No. D-332 dated 23-06-2023

Kindly find enclosed herewith the revised DPR for installation of dynamic/ automatic Capacitor Banks on 11 kV Side of selected 33/11 kV sub-stations of AVVNL under Power System Development Fund (PSDF Scheme) amounting to Rs 135.99 Cr for further needful at your level and fund approval.

As discussed and decided in the TESG meeting dated 08-05-2023, the revised DPR has been prepared in accordance with the inputs received from RVPNL (STU), initially for installation of capacitor banks on 644 Nos. sub-stations and later for 650 Nos. sub-stations. It is further submitted that the DPR has been prepared in line with JVVNL.

Enclosed: As above

(Ashok Kumar) Add. Chief Engineer (Projects) AVVNL, Ajmer

Copy submitted / forwarded to the following:

- 1. The TA to Managing Director, AVVNL, Ajmer for kind perusal of MD Sb.
- 2. The Add. Chief Engineer (Projects), JVVNL, Jaipur
- 3. The Superintending Engineer (PP), RVPNL, Jaipur

Add. Chief Engineer (Projects) AVVNL, Ajmer

REVISED DETAILED PROJECT REPORT (DPR) FOR

System Improvement Scheme

Installation of Capacitor Banks on 11 kV Side of 33/11kV Substations for Reactive Power Compensation under Power System Development Fund (PSDF) – Phase 'I'

Estimated Cost: Rs. 135.99 Cr.



AJMER VIDYUT VITRAN NIGAM LIMITED

Corporate Identification Number (CIN): U40109RJ2000SGC016482 Office of the Add. Chief Engineer (Projects) VidyutBhawan, Panchsheel Nagar, Makarwali Road, Ajmer-305004

Email - ceprojectavvnl2023@gmail.com

Website:www.energy.rajasthan.gov.in/avvnl

DETAILED PROJECT REPORT

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INTRODUCTION

Rajasthan is the largest state in the country, in terms of area, spreading across 3,42,239 Sq. km, which is 10.41% of the nation area. The total population of Rajasthan is nearly 8.1 Crores spread across 33 Districts, of which 75% is rural population. The density of population in Rajasthan is 200 per sq.km which is much lower than the national average of 382 per sq.km. The state is, predominantly, an agrarian society with majority (45%) of the population depending on agriculture activities as source of income, which accounts for around 29.5% of Gross State Domestic Product (GSDP).

Due to this spread of population, meeting power demand, distribution of electricity and maintaining quality power for every category of consumers has always remained a challenge. The state is primarily agricultural base; however, the intensive power is too supplied to the domestic, non-domestic and industrial sector. It has been identified that these loads are highly inductive in nature which need rectification. In this regard, AVVNL has proposed to install dynamic/ automatic capacitor bank under which the capacitive load helps to adjust power factor as close to **'Unity Power Factor'**. The implementation of the project/ scheme will limit the heavy drawl of reactive power from grid and mitigate the risk such as **(a) Overloading of transmission lines; (b) Overloading of transformers at different voltage levels; and (c) Increase in system losses.**

Under AVVNL Discom, efforts have continuously been made to provide requisite reactive power compensation; however, the challenge associated with low voltage at the load end and drawl of heavy reactive power from the grid still persists due to fast growing load demand. Additionally, it has been noticed that the power factor is ranging from 0.80 to 0.90 at urban feeder and 0.75 to 0.80 (or even less) at the rural feeders within the respective circles. In view of this, the **provision through submission of detailed project report has been proposed at various circles having 'power factor less than 0.85'**. The report shall consist of brief background of AVVNL Discom, geographical maps, operational profile, objective, beneficiaries, recent initiatives, technology, cost estimates, timeframe, success criteria etc.

OUR PROPOSAL

1. BACKGROUND

1.1. Introduction

Ajmer Vidyut Vitran Nigam Limited (AVVNL) is a public utility company under the Department of Energy, Government of Rajasthan and is holder of the distribution and retail supply business licenses in the State of Rajasthan *(hereafter referred as "DISCOM")*. The Distribution Company came in to existence on 19 July 2000 pursuant to the "Rajasthan Power Sector Reforms Transfer Scheme, 2000" and restructuring undertaken in the State under which the vertically integrated Electricity Board (Rajasthan State Electricity Board) was unbundled and the power generation, transmission and distribution business was segregated to form 05 successor companies viz.

- a) Rajasthan Rajya Vidyut Utpadan Nigam Limited (RVUN) to manage the electricity generation business of erstwhile RSEB.
- **b)** Rajasthan Rajya Vidyut Prasaran Nigam Limited (RVPN) to manage the electricity transmission and bulk supply business of erstwhile RSEB.
- c) Ajmer Vidyut Vitran Nigam Limited (AVVNL) to manage the electricity distribution and retail supply business of erstwhile RSEB in Ajmer City Circle, Ajmer District Circle, Bhilwara, Nagaur, Jhunjhunu, Sikar, Udaipur, Chittorgarh, Rajsamand, Banswara, Pratapgarh and Dungarpur Circles.
- d) Jaipur Vidyut Vitran Nigam Limited (JVVNL) to manage the electricity distribution and retail supply business of erstwhile RSEB in Alwar, Bharatpur, Jaipur City, Jaipur District, Dausa, Kota, Jhalawar, Sawai Madhopur, Bundi, Baran, Tonk, Karauli and Dholpur Circles.
- e) Jodhpur Vidyut Vitran Nigam Limited (JdVVNL) to manage the electricity distribution and retail supply business of erstwhile RSEB in Sriganganagar, Hanumangarh, Churu, Bikaner District, Bikaner City, Jaisalmer, Jalore, Barmer, Jodhpur City, Jodhpur District, Sirohi, Jalore, and Pali Circles.

Detailed Project Report



1.2. Geographical Map of RajasthanDiscom

Figure 1: ¹Distribution Company Operating in State of Rajasthan

All the 03 Discoms have been established with the principal object of engaging in the business of distribution and supply of uninterrupted and reliable quality electricity in different districts (JVVNL – 12 Nos., AVVNL – 11 Nos. & JdVVNL – 10 Nos.) of Rajasthan. In view of above geographic locations, the proposal will mainly focus on 'Installation of Capacitor Bank at the 11 kV Side of various 33/11 kV sub-stations' under various Circles of Ajmer Discom.

1.3. Operational Profile

The AVVNL Discom is responsible for operating the distribution assets within the areaofAjmer, Bhilwara, Nagaur, Jhunjhunu, Sikar, Udaipur, Chittorgarh, Rajsamand, Banswara, Pratapgarh and Dungarpur districts. Its scope of work and the electricity network (*as on Mar23*) are as presented below.

¹Source: https://energy.rajasthan.gov.in/content/raj/energy-department/en/departments/avvnl/knowledge-base/discom-map.html

Sr. No.	Parameters	AVVNL
1	Area of Operation	87,256 Sq. KM
2	Total Population (As per 2011 Census)	229 Lakhs
3	Total Number of Consumers	54.73 Lakhs (Regular)
4	Total Number of Villages	15379 Nos.
5	Electrified Villages	15272 Nos. (The balance 107 Nos. villages are unpopulated)
6	Circles	12 Nos.
7	33/11 kV Sub-stations	1974 Nos.
8	MVA Capacity of 33/11 kV Power Transformer	10276.70MVA
9	33 kV Line	16821.30 KM
10	11 kV Line	162143.59 KM
11	11 kV Feeders	9443 Nos.
12	LT Line	199117.66 KM
13	11/0.4, 6.35/0.24 kV Sub-station	537494 & 185452 Nos.
14	MVA Capacity of Distribution Transformer	17713.45MVA
15	Load Profile (LV) based on MU	Agriculture & Domestic loads are predominating
16	Load profile (HV) based on MU	Industrial & Non Industrial, Agriculture, Residential and Commercial

Table 1: Operational Profile of AVVNL Discom

Further, in terms of electrical connectivity, the AVVNL Discom is connected to Rajasthan Rajya Vidyut Prasaran Nigam Limited network at 33kV & 11kV levels. Also, there are few interconnection points with other Discoms.

1.4. Customers Profile

Discom currently serves about 5473245 regularconsumers with a total connected load of around 1,44,21,291 kW under the LT & HT categories of consumers. Hence, category wise break-up of total number of consumers with connected Load as on March 2023 is stated below:

Category (LT)	Consumers (Nos)	Connected Load (kW)
Domestic	4393918	3943062
Non Domestic	392589	1527874
PSL	6851	138677
Agri (M)	579349	3973100
Agri (F)	453	5341
Agri (P)	1512	9385
SIP	50619	386441
MIP	10414	630158
LIP	5398	3413773
SIP(WW)	22314	164336
MIP(WW)	321	15829
LIP(WW)	197	80542
Mixed Load	9301	91520
EV	4	55
Railway Traction	5	41198
Total	54,73,245	1,44,21,291

Table 2: Customer Profile for LT&HT Consumers of AVVNL Discom

2. PROJECT OBJECTIVE

AVVNL believes that there is a need for a consistent and long lasting solution in order to improve & strengthen the Power Distribution Network with minimum losses in the long run. Also, the distribution system has suffered various challenges such as (a) Unbalanced Load Flow; (b) High Level of Technical Losses; (c) Less System Stability; (d)Poor Voltage Regulation; (e) Low Power Factor; (f) Low Consumer Satisfaction Level etc. which need to be gradually resolved. In this regard, AVVNL is taking up Integrated Planning for Distribution System covering the Renovation & Modernization of the overall network. This will enable relieving congestion and improving the voltage profile at the load end.

"Government of India has finalized the scheme/ guidelines for operationalization of PSDF dated 10.01.2014. The provision consists of 'Installation of Shunt Capacitors, Series Compensators and other Reactive Energy Generators including Reactive Energy Absorption, Dynamic Reactive' support etc. for improvement of voltage profile in the Grid".

Hence, this report aims to provide detailed information relating to the project for which Power System Development Fund for current year sought by the AVVNL. The key activity identified is to improve power distribution system with the installation of **1587 kVAr &**

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3174 kVAr Dynamic/ Automatic Capacitor Bank at the selected 11kV Side of 33/11 kV Sub-stations within the respective Circle/ Division/ Sub-division which could be possible with the **Power System Development Fund (PSDF).**

	Installation of Dynamic/ Automatic Capacitor Bank under 12 Circles of AVVNL Discom									
Power Factor	Circle	Division	Sub Division	Total 33/11 kV Substation	Feeder Count	Proposed Transformer Capacity (MVA)	Power Transformer Count (Nos.)			
Less	10	20	127 650	39 127 650 18	650	650	1920	3.15/ 5	637	
than 0.85	12	39 127	12 39 127 650 1826		127	127	8	13		
	Total (In Nos.) 650									

Table 3: Project Estimation for Installation of Capacitor Bank under AVVNL Discom

3. METHODOLOGY ADOPTED

The methodology as followed by AVVNL, for identification of low power factor (*i.e.* below 0.85) is as stated below.

- a) AVVNL Discom has developed a Feeder Monitoring System (FMS) in order to have a 'Real Time' power supply status of 11 kV feeders including installation status, power quality, system reliability, issue tracker, block hours supply, power factors, loan analysis, energy audit, tamper details etc.
- **b)** With the support of RFMS, the review reports consisting of 'Power Factors Less than 0.90' has been downloaded for the last 01 year (*i.e. from May 2022 till April 2023*).
- c) Analysis were carried-out on the Power Factor, Maximum Current (In Amp.) & Peak Load (In kW) at the various zone, circle, division, sub-division, 33/11 kV substations, 11 kV feeders including its transformational capacity (In MVA).
- **d)** The average power factor for the 12 months were calculated and finalized for 12 circles which is enclosed under **Annexure 'I'.**

e) Further, the automatically generated data are reliable enough for consideration however, AVVNL has taken initiative and finalized data were cross-checked on a sample basis at the various division/ sub-divisions levels.

4. **BENEFICIARIES**

Adequate reactive power compensation offered salient benefits to the power system which includes voltage regulation *(i.e. voltage control within acceptable limits)*, system power losses reduction brought about by power factor improvement and it increases the utilization of connected equipments at the consumer end, improves reliability of transmission system and more importantly efficiency of real power made available at the consumer end. Hence, the major beneficiaries are as stated below.

- a) Rajasthan Rajya Vidyut Prasaran Nigam Limited
- **b)** Ajmer Vidyut Vitran Nigam Limited (*Approx. 20 Lakhs Consumers under 650 Nos.* 33/11 kV Sub-stations of 12 Circles)

5. ON-GOING INITIATIVES

AVVNL is taking active participation for the supply of quality power without compromising the technical and commercial losses in the urban and rural areas. Some of the initiatives include village electrification, augmentation of transformational capacity, infrastructure development, privatizations through distribution franchisee, metering, theft control, adopting schemes like Revamped Distribution Sector Scheme (RDSS), PM-KUSUM Scheme etc. Further, for the improvement of power factors at load end, AVVNL has installed approx. 195242 Nos. . of LT Shunt Capacitors (3 kVAr / 6 kVAr / 9 kVAr) till date. However due to smaller impact of power factor improvement, burning/ failure issue and theft of LT Shunt Capacitors have forced Discom to rethink and initiate the implementation of dynamic/ automatic capacitor bank at the various 11 kV side of the 33/11 kV sub-stations.

Apart from above, majority of the 11kV feeders in AVVNL are having high agriculture load which are being catered using 3.15/ 5 MVA power transformers at substations. Over the decade, Discom has witnessed a growth of around ~9% in connected load thus leading to increase in power demand. Also, Government of Rajasthan has mandated supply of day-time power (two blocks supply) to agricultural farmers. To meet this increase in demand and ensure day time supply to agriculture consumers, AVVNL need to augment its existing transformation capacities at Substation level (specifically from 3.15MVA to 5 MVA) within next 2 years. Hence, under this detailed project report, AVVNL has considered the upcoming requirement and proposed a capacitor bank with common rated capacity for 3.15/ 5 MVA.

6. TECHNOLOGY

- a) For 11kV, 1587 kVAr & 3174 kVAr Dynamic/ Automatic Capacitor Bank shall include 11kV Vacuum Circuit Breaker (VCB) Switchgear with complete arrangement with Adopter Panel for connection with existing 11 kV Bus Bar, Capacitor Switch, Reactor, APFC, Indoor Type Automatic Control Unit, Lightning Arrestor, Surge Arrestor, Pin & Post Insulators, PT's-CT's, Power &Control Cables, Junction Box, Supports of various types channels, Nut Bolts, Bus Bar Structure, Laying of Cables, Installation of Energy Meters, Interconnection of VCB and C&R Panel, Battery with Batter Charger etc.
- **b)** The capacitor bank shall consist of variable steps of different kVAr (*details shared under BoQ*). All the capacitor unit shall be controlled through separate capacitors witch and complete capacitor bank shall be protected through a VCB suitable for capacitor duty.
- c) The rated voltage of the system will be not less than 12 kV and shall be carriedout under 3-Phase Power Supply; 50 Hz frequency level.
- **d)** The automatic power factor control unit shall continuously monitor power factor at11kV side of power transformer and automatically switched ON/OFF capacitors units in steps according to the requirement of KVAr to maintain the Target Power Factor (atleast 0.98).
- e) The automatic power factor control unit shall be programmable and have data down loading facility. Data Storage capacity of the control unit shall be at least for45 days with every 15 minutes data. The bidder shall have to provide two data downloading instrument for data download from control unit with necessary BCS in each Circles.
- **f)** The all display meters provided in the control panel shall be digital meters and shall be compatible for Automatic Meter Reading (AMR).
- **g)** There are no low voltage limit for tripping of capacitor bank main VCB or capacitor switch. Also, the power factor control unit and relays provided for the protection of control unit shall be capable to store at least last 05 faults.
- **h)** All equipment and material shall be designed, manufactured and tested in accordance with the latest applicable IS/IEC standards.
- i) The electrical installation shall meet the requirement of Indian Electricity Rules-1956/CEA safety Regulation 2010 as amended up to date; relevant IS code of

practice and Indian Electricity Act-2003 in addition other rules and regulations as applicable to the work shall be followed.

Note: The above proposed technology is indicative only, detailed version will be a part of tender documents.

7. MANAGEMENT ARRANGEMENTS

The implementation plan for the project will be **24 months (i.e 03 months tendering process + 21 months implementation)** from the date of approval from funding agency and shall be executed as per proposed plan. Further, the works under different activities shall be carried out on **turnkey basis** through international or national competitive bidding as per the guidelines of funding agency.

The project shall cover the overall procurement, installation, commissioning, testing and 05 years maintenance of dynamic/ automatic capacitor bank and will be divided into two phases (I& II)depending upon the total number of sub-station considered, area covered, time frame and available fund. Here, providing the estimate for **'Phase – I'**.

8. COST ESTIMATES

The cost estimation of installation of **650 Nos. of Dynamic/ Automatic 11 kV Capacitor Bank** under Power System Development Fund is stated below.

Sr. No.	Name of Work	Unit	Qty.	Unit Rate (Rs. Lakhs)	*Amount (In Rs. Cr.)
1	Installation of 1587 kVAr Automatic 11 kV Capacitor Bank including procurement, installation, commissioning and testing. (For 3.15/5 MVA)	Nos.	637	20.85	132.81
2	Installation of 3174 kVAr Automatic 11 kV Capacitor Bank including procurement, installation, commissioning and testing. (For 8 MVA)	Nos.	13	24.46	3.18
	Total		650		135.99

***Note:** The above estimated cost is inclusive of transportation of material, erection cost, insurance, labour & finance cost, service cost, price escalation, civil cost, applicable GST and other taxes, except AMC.

9. BILL OF QUANTITY (BOQ)

(A) Cost break-up of 11 kV Switched Capacitor Bank at 3.15 / 5 MVA Power Transformer

	BoQ for 11 kV Dynamic/ Automatic Capacitor Bank (APFC) for Rural Areas - AVVNL (Cost Reference - MSEDCL Approved Rate)						
Sr. No.	Name of Items	Unit	Qty.	Unit Rates	Amount (In Rs.)		
1	2	3	4	5	6		
1	12.65 kV, 1587 kVAr (11 KV, 1.2 MVAR), 3-Phase, 50 Hz, Outdoor Type, CRCA panel having step as 396.75 kVAr + 396.75 kVAr +793.5 kVAr at 12.65 KV. Bank shall be complete with Capacitor units of 132.25 kVAr for 396.75 KVAR & 264.5 kVAr for 793.5 KVAR step at 7.3 KV, including allied material such as suitable size of Aluminum busbars epoxy insulators, HRC fuses, Vacuum contactor, series reactors, RVT, etc shall also be housed in same cubicle in the below mentioned quantity	Nos.	1				
a)	 11 kV, 0.2%, Aluminium Wound, Dry type Series reactors suitable for 396.75 kVAr 11 kV, 0.2%, Aluminium Wound, Dry type Series 	Nos.	6	1,016,949.00	1,016,949.00		
b)	reactors suitable for 793.5 kVAr	Nos.	3	_			
c)	11 kV, 1-Phase Dry, AN-Cooled RVT	No.	1				
d)	11 kV/400 Amp, Indoor type Vacuum contactor	Nos.	3				
e)	Surge Suppressor	No.	1				
f)	IP 55, Outdoor CRCA cubicle panel for accommodating capacitors, series reactor, vacuum contactor, surge arrestor fuses along with canaopy	Set	1				
g)	C & R Panel with Automatic Control Unit with APFC relay and Neutral Displacement relay	Set	1				
2	11 KV Isolator with EB (800 A) with elevating structure	No.	1	30,025.00	30,025.00		
3	11 KV Isolator without EB (800 Amp.) with elevating structure	No.	1	26,630.00	26,630.00		
4	9 kV, 10 kA, Station Class, Lightning Arrestors	Set	1	10,260.00	10,260.00		
5	*Cable Support Structure, Clamps, Connectors, Earthing MS Flats 50 x 6, 3 Mtr long Earthing Cl Pipe Dia 150 mm, Dog Conductor	LS	1	61,506.95	61,506.95		
6	11 KV, 3 x 185 sqmm, HT XLPE Cable	Mtr.	20	858.00	17,160.00		
7	Outdoor cable jointing kits	No.	2	1,907.00	3,814.00		
8	11 kV VCB (Kiosks Type) (800 Amp.) Switchgear with complete arrangement with adopter panel for connection with existing 11 kV bus bar	No.	1	117,466.00	117,466.00		

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9	**Control cables of various sizes	LS	1	43,818.20	43,818.20	
10	11 kV CT 400 - 200/5 A Outdoor Type	Nos.	3	10,611.00	31,833.00	
11	24 Volt / 200 AH Battery with Battery Charger (For Capacitor's VCB)	Nos.	1	69,000.00	69,000.00	
	Sub-Total (A)				1,428,462.15	
13	Transportation on material	LS	4%	-	57,138.49	
14	Erection cost on material	LS	5%	-	71,423.11	
15	Insurance, Labour & Finance Cost	LS	3%	-	42,853.86	
	Service Cost LS 12% -					
	Sub-Total (B)				171,415.46	
	Total (C) = (A) + (B)				1,599,877.61	
17	Applicable GST	-	18%	-	287,977.97	
18	Price Escalation on cost of material	-	10%	-	142,846.22	
19	***Civil Cost	LS	1	53,857.50	53,857.50	
	484,681.68					
	Grand Total (E) = (C) + (D)				2,084,559.29	

Note 1: As AVVNL is not under practice of regular installation of APFC, hence the cost estimation has been considered from recently approved PSDF Scheme of MSEDCL.

Note 2: As per the monthly Wholesale Price Index (WPI) issued by office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, following variation is observed in the prices of following items:

Commodity Name	WPI for 2020-21	WPI for 2021-22	Variation (%)
commounty Name	(Base 2011-12)	(Base 2011-12)	Variation (78)
Iron Ore	102	156.2	+53%
Electric insulating material	105.4	107.1	+2%
Electrical relay/conductor	112.3	129.1	+15%
Batteries	117.9	123.1	+5%

Therefore, looking the variations in some of the materials as required for the installation of capacitor banks at various 33/11 kV S/s over the period (24 months), AVVNL has considered price escalation of 10%.

Additionally, the cost towards annual maintenance charges (as shown below) shall be borne by AVVNL as internal / external source of funding.

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Sr. No.	I Maintenance Charges after Guarantee Period for 0 Parameters	Unit	Qty.	Unit Rates	Amount (In Rs.)
1	2	3	4	5	6
1	1st Year	Job	1	50000.00	50,000.00
2	2nd Year	Job	1	60000.00	60,000.00
3	3rd Year	Job	1	70000.00	70,000.00
4	4th Year	Job	1	80000.00	80,000.00
5	5th Year	Job	1	90000.00	90,000.00
	350,000.00				
Total AMC Cost for 05 Years considering 631 Nos. of APFC					2208,50,000.00

Item Wise Cost Breakup:

(A.1) *Cost Structure for 11 kV Station Capacitor Bank – For 1587 kVAr

Sr. No.	Name of Items	Unit	Qty.	Unit Rates	Amount (In Rs.)
1	2	3	4	5	6
1	Structure for 11 KV CT	Kg	155	51.80	8,029.00
2	Structure for 11 KV LA	Kg	155	51.80	8,029.00
3	G.I. Nut Bolts	Kg	20	82.90	1,658.00
4	Cable Support Structure (2 Nos.)	Kg	200	51.80	10,360.00
5	MS Flat 50 X 6	Kg	235.5	48.50	11,421.75
6	Earthing CI Pipe Dia 150 mm 3 Mtr long	Nos.	3	6300.00	18,900.00
7	Dog Conductor	Mtr.	60	51.82	3,109.20
	Total				61,506.95

(A.2) **Cost Structure for Control Cables – For 1587 kVAr

Sr. No.	Name of Items	Unit	Qty.	Unit Rates	Amount (In Rs.)
1	2	3	4	5	6
1	2C X 2.5 Sq. mm Armoured, Copper	Mtr.	100	55.11	5,511.00
2	4C X 2.5 Sq. mm Armoured, Copper	Mtr.	275	87.60	24,090.00
3	7C X 2.5 Sq. mm Armoured, Copper	Mtr.	40	139.19	5,567.60
4	10C X 2.5 Sq. mm Armoured, Copper	Mtr.	40	216.24	8,649.60
Total					

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(A.3) ***Cost Structure for Civil Work – For 1587 kVAr

Sr. No.	Parameters	Unit	Qty.	Unit Rates	Amount (In Rs.)
1	2	3	4	5	6
1	Excavation	CuM	8	150.00	1,200.00
2	PCC	CuM	2.5	4257.00	10,642.50
3	RCC	CuM	5	5255.00	26,275.00
4	Steel	Kg	300	51.80	15,540.00
5	Back Filing	CuM	2	100.00	200.00
	Total				

(B) Cost break-up of 11 kV Switched Capacitor Bank at 8 MVA Power Transformers

BoQ for 11 kV Dynamic/ Automatic Capacitor Bank (APFC) for Rural Areas - AVVNL (Cost Reference - MSEDCL Approved Rate)					
Sr. No.	Name of Items	Unit	Qty.	Unit Rates	Amount (In Rs.)
1	2	3	4		5
1	12.65 kV, 3174 kVAr, 3-Phase, 50 Hz, Outdoor Type, CRCA panel having 4 step as 396.75 kVAr + 396.75 kVAr +1190.25 kVAr +1190.25 kVAr at 12.65 KV. Bank shall be complete with Capacitor units of 132.25 kVAr for 396.75 kVAr & 396.75 kVAr for 1190.25 kVAr at 7.3 kV including allied material such as suitable size of Aluminum busbars epoxy insulators, HRC fuses, Vacuum contactor, series reactors, RVT, etc. with details as under	Nos.	1	- 1,271,186.00	1,271,186.00
a)	11 kV, 0.2%, Aluminium Wound, Dry type Series reactors suitable for 396.75 kVAr	Nos.	6		
b)	11 kV, 0.2%, Aluminium Wound, Dry type Series reactors suitable for 1190.25 kVAr	Nos.	6		
c)	11 kV, 3-Phase dry type RVT	No.	1		
d)	11 kV/400 Amp, Indoor type Vacuum contactor	Nos.	4		
e)	Surge Suppressor	No.	1		
f)	IP 55 , Outdoor CRCA cubicle panel for accommodating capacitors, series reactor, vacuum contactor, surge arrestor fuses along with canaopy	Set	1	-	
g)	C & R Panel with Automatic Control Unit with APFC relay and Neutral Displacement relay	Set	1		
2	11 KV Isolator with EB (800 A) with elevating structure	No.	1	30,025.00	30,025.00

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3	11 KV Isolator without EB (800 Amp.) with elevating structure	No.	1	26,630.00	26,630.00
4	9 kV, 10 kA, Station Class, Lightning Arrestors	Set	1	10,260.00	10,260.00
5	*Cable Support Structure, Clamps, Connectors, Earthing MS Flats 50 x 6, 3 Mtr long Earthing Cl Pipe Dia 150 mm, Dog Conductor	LS	1	61,506.95	61,506.95
6	11 kV XLPE insulated 3x185 mm ² Armoured	Mtr.	20	858.00	17,160.00
8	Outdoor cable jointing kits	No.	2	1,907.00	3,814.00
9	11 kV VCB (Kiosks) (800 Amp.) Switchgear with complete arrangement with adopter panel for connection with existing 11 kV bus bar	No.	1	117,466.00	117,466.00
10	**Control cables of various sizes	LS	1	43,818.20	43,818.20
11	11 kV CT 400 - 200/5 A Outdoor Type	Nos.	3	10,611.00	31,833.00
12	24 Volt / 200 AH Battery with Battery Charger (For Capacitor's VCB)	Nos.	1	69,000.00	69,000.00
	Sub-Total (A)				1,682,699.15
13	Transportation on material	LS	4%	-	67,307.97
14	Erection cost on material	LS	5%	-	84,134.96
15	Insurance, Labour & Finance Cost	LS	3%	-	50,480.97
	Service Cost	LS	12%	-	201,923.90
	Sub-Total (B)				201,923.90
	Total (C) = (A) + (B)				1,884,623.05
17	Applicable GST	-	18%	-	339,232.15
18	Price Escalation on cost of material	-	10%	-	168,269.92
19	***Civil Cost Sub-Total (D)	LS	1	53,857.50	53,857.50
	561,359.56 2,445,982.61				
	Grand Total (E) = (C) + (D)				

Note 1: As AVVNL is not under practice of regular installation of APFC, hence the cost estimation has been considered from recently approved PSDF Scheme of MSEDCL.

Note 2: As per the monthly Wholesale Price Index (WPI) issued by office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, following variation is observed in the prices of following items:

Commodity Name	WPI for 2020-21 (Base 2011-12)	WPI for 2021-22 (Base 2011-12)	Variation (%)	
Iron Ore	102	156.2	+53%	
Electric insulating material	105.4	107.1	+2%	

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Electrical relay / conductor	112.3	129.1	+15%
Batteries	117.9	123.1	+5%

Therefore, looking the variations in some of the materials as required for the installation of capacitor banks at various 33/11 kV S/s over the period (24 months), AVVNL has considered price escalation of 10%.

Additionally, the cost towards annual maintenance charges (as shown below) shall be borne by AVVNL as internal / external source of funding.

Annual Maintenance Charges after Guarantee Period for 05 Years (1 Year + 5 Year's)						
Sr. No.	Parameters	Unit	Qty.	Unit Rates	Amount (In Rs.)	
1	2	3	4	5	6	
1	1st Year	Job	1	50000.00	50,000.00	
2	2nd Year	Job	1	60000.00	60,000.00	
3	3rd Year	Job	1	70000.00	70,000.00	
4	4th Year	Job	1	80000.00	80,000.00	
5	5th Year	Job	1	90000.00	90,000.00	
Total					350,000.00	
	Total AMC Cost for 05 Years considering 13 Nos. of APFC					

Item Wise Cost Breakup:

(B.1) *Cost Structure for 11 kV Station Capacitor Bank – For 3174 kVAr

Sr. No.	Name of Items	Unit	Qty.	Unit Rates	Amount (In Rs.)
1	2	3	4	5	6
1	Structure for 11 KV CT	Kg	155	51.80	8,029.00
2	Structure for 11 KV LA	Kg	155	51.80	8,029.00
3	G.I. Nut Bolts	Kg	20	82.90	1,658.00
4	Cable Support Structure (2 Nos.)	Kg	200	51.80	10,360.00
5	MS Flat 50 X 6	Kg	235.5	48.50	11,421.75
6	Earthing CI Pipe Dia 150 mm 3 Mtr long	Nos.	3	6300.00	18,900.00
7	Dog Conductor	Mtr.	60	51.82	3,109.20
	Total				61,506.95

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(B.2) **Cost Structure for Control Cables – For 3174 kVAr

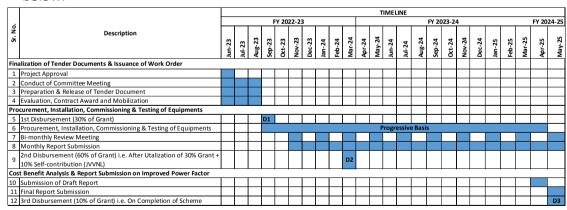
Sr. No.	Name of Items	Unit	Qty.	Unit Rates	Amount (In Rs.)
1	2	3	4	5	6
1	2C X 2.5 Sq. mm Armoured, Copper	Mtr.	100	55.11	5,511.00
2	4C X 2.5 Sq. mm Armoured, Copper	Mtr.	275	87.60	24,090.00
3	7C X 2.5 Sq. mm Armoured, Copper	Mtr.	40	139.19	5,567.60
4	10C X 2.5 Sq. mm Armoured, Copper	Mtr.	40	216.24	8,649.60
	Total				43,818.20

(B.3) ***Cost Structure for Civil Work – For 3174 kVAr

Sr. No.	Parameters	Unit	Qty.	Unit Rates	Amount (In Rs.)
1	2	3	4	5	6
1	Excavation	CuM	8	150.00	1,200.00
2	PCC	CuM	2.5	4257.00	10,642.50
3	RCC	CuM	5	5255.00	26,275.00
4	Steel	Kg	300	51.80	15,540.00
5	Back Filing	CuM	2	100.00	200.00
Total					

1. TIME FRAME PERT CHART

The total duration of the project is considered as **24 months**. The tentative start date shall be considered as the date of receipt of approval from PSDF funding while the completion time is likely to by **end of May 2025**. The detailed time frame is presented below.



2. SUCCESS CRITERIA&SUSTAINABILITY

Detailed Project Report

Ajmer Vidyut Vitran Nigam Limited

To identify the success of any project, it is always necessary to evaluate the standards by which to examine whether the proposed objective, target or outcomes will be achieve or not. Hence, the **Cost-Benefit Analysis** for the 1980 kVAr &3168 kVAr ratings automatic capacitor bank on the 3.15, 5 & 8 MVA power transformer has been presented below.

	Payback Calculation for Installation of 11 kV Automatic Capacitor Bank at 33/11 kV Sub-station														
	Assumptions - Load Factor - 80% Avg. Loading - 54% Average PF - 0.85 Desired PF - 0.98 Initial Line Losses as 20%														
Sr. No.	Transforme r Rating (In MVA)	Qty	Total MVA	Factor	Average Loading		Reduction in MVA after Capacitors Bank	% Line Loss	n of Initial Loss as	Total MWh Drawn in a Year	Saving in MWh	Cost of energy saved per annum @ 4.85/- (2022- 21) per unit	Proposed 11 KV Automatic Capacitor Bank (In kVAr)	SITC cost with 5 Yr AMC (In Lakhs)	Total Cost (In Cr.)
				80%	54%		0.98		20						
1	3.15	380	1197	958	517	439.5384	448.51	24.77	4.95	3850356	190754	9251,55,967	1587	20.85	79.23
2	5	257	1285	1028	555	471.852	481.48	24.77	4.95	4133424	204777	9931,70,774	1587	20.85	53.58
3	8	13	104	83	45	38.1888	38.97	24.77	4.95	334534	16573	803,81,137	3174	24.46	3.18
	Grand Total							8318314	412105	19987,07,878	-	-	135.99		

Total Cost of the Project	:	Rs. 135.99 Cr.
Total Savings with Power Factor Improvement	:	Rs. 199.87 Cr

Payback Period

Approx. 9 Months

"Further, regional entities are liable for weekly settlement of 'Reactive Energy Charges' in accordance with the CERC (Indian Electricity Grid Code)Regulations, 2010 and amendments thereof, which are sometimes payable or receivable. Due to poor power factor, sometimes Rajasthan accounts for a penalty at the rate of 10 paise/kVArh (*from 03.05.2010 onwards*) reactive charges with escalation factor of 0.5 paise/ kVArh. Also, recent provision of CERC's Draft Indian Electricity Grid Code 2022 recommends the reactive charge at the rate of 5 paise/kVArh w.e.f. the date of effect of final regulations with escalation at 0.5paise/kVArh per year thereafter".

Hence, the draft provision to rate reduction along with saving achieved through installation of capacitor bank will definitely lower down the overall penalty impact. These shall be the contributing factor for the Improvement of Financial Health of Discoms and will leading to a sustainable implementation structure.(*Note: The NRLDC charges is not taken into consideration in above payback calculation*).

Moreover, the capacitor units are used in these capacitor banks shall be manufactured with the latest design and tested to meet or exceed the requirement of applicable IEC & IS Standards, it is rated in continuous kVAr, voltage and frequency for operating within the -200°C to +500°Cambient temperature range & shall be designed to produce not less than rated kVA at rated voltage and frequency.

Capacitors will operate safely at 135% of kVAr rating under following condition as:

- kVAr caused by excess at rated frequency.
- kVAr added by the harmonic voltage superimposed on the power frequency voltage.
- kVAr attributable to manufacturing tolerances.

The maximum recommended working voltage of capacitor is 110% of rated voltage. The capacitors include a safely factor that permits them to tolerate without damage momentary over voltage caused due to switching/load fluctuation.

Thus, it is quite successful and sustainable in the high voltage system.

Ajmer Vidyut Vitran Nigam Limited

Detailed Project Report

List of Various 33/11 kV Sub-stations considered for Power Factor Improvement

Page 20 of 20

JODHPUR VIDYUT VITRAN NIGAM LTD. Corporate Jdentity Number (CIN) -II40109Rj2000SGC016483 Office of Superintending Engineer (I&S) Regd. Office: New Power House, Jodhpur- 342003 Phone No: 0291- 2742343 : Fax No: 0291-2742228 E-mail:- seinsjdvvni@gmail.cotn Web site: www.jdvval.com									
No.JdVVNL/SE (1&S)/F.PSDF/	/D,	403	DL 30.06.2023					
Sh. Debasis De					REVISED				
Executive Director	r NLDC				KEAUSED				
Member Secretar	Member Secretary of the Appraisal Committee PSDF								
B-9, Qutub Institu	tional Area, Katv	varia Saria							
New Delhi – 1100:									

- Sub : Re-Submission of revised proposal for approval of project for implementation of Automatic Reactive Power solution on 33/11 KV substations of Jodhpur DISCOM (Proposal No. 347) after removal of typological errors.
- Ref : 1. DPR submitted vide letter No. 1747 dated 03.08.2022
 - 2. PSDF TESG meeting held at New Delhi on 08.05.2023
 - Study report conducted by RVPNL
 - This office Letter D. 392 Dt: 23.06.2023

Under reference to the subject cited above to bring down the AT&C losses in the state and to strengthen the medium voltage network of the state which in turn will be of benefit to Jodhpur DISCOM, we have planned to implement the automatic/dynamic reactive power solution (Capacitor Banks) on 11 kV side of 33/11 KV substations of Jodhpur DISCOM under Power System Development Fund (PSDF) amounting to Rs. 216.38 Crores excluding AMC.

As discussed and decided in the TESG meeting held on 08.05.2023 the detailed revised project report in accordance with the inputs received from RVPN (STU) for 730 nos, 33/11 KV substations of Jodhpur DISCOM selected for implementation is submitted herewith for further needful at your level and for approval of funds.

Eacl: The Complete Revised DPR Page 1 to 110

30/6/2023 (M.L. BENDA)

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Project Nodal Officer SuperIntending Engineer (I&S), Jodhpur DISCOM, Jodhpur

> Er. M.L. Benda SE (I&S), JdVVM



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JODHPUR VIDYUT VITRAN NIGAM LTD. (A Govt. of Rajasthan undertaking) Corporate Identity Number (CIN) –U40109RJ2000SGC016483 Regd. Office: New Power House, Jodhpur- 342003 Office of the Superintending Engineer (I&S) Phone No: 0291-2745801/+919413359036 E-mail: seinsjdvvnl@gmail.com, Web site: www.jdvvnl.com

REVISED

DETAILED PROJECT REPORT (DPR)

FOR

IMPLEMENTATION OF AUTOMATIC REACTIVE POWER SOLUTION ON 33/11 KV SUB STATIONS IN JODHPUR DISCOM (JdVVNL)

TOTAL ESTIMATED COST: Rs. 216.38 crores

Key Glances:

Existing Avg. Power Factor	Transfor mer Rating (MVA)	Quy.	Proposed 11, KV Automatic Capacitor Bank (KVAr)	Sapply Installation Cost per Unit (10 Lakh)	Total Cost of Project (In Cr.)	Cost of Energy Saving per Year (In Cr.)	Payhack Period
	6.1		1980	29.57			
	2.5	1980	29.57	1			
0.84	3.15	559	[98D	29.57			
17.64	5.00	156 j	1980	29.57	216,38	108.29	2 Year
	66.8	06	3950	33.75	i		
	1 0 .0D	07	0950	33.75			

dd

Jodbpur, June 2023

Er. M.L. Benda SE (188), JdVVNL, JU

Format A1	
Page 1 of 1	

SUMMARY OF PROPOSAL

For Official Use- To be filled by the Nodal Agency of PSDF

Project Proposal No: -----

Date of Receipt: -----

_To b	e filled by the Requesting	Organization / Project Entity
	Name of the requesting Drganization / Utility	Jodhpur Vidyut Vitran Nigam Limited., Jodhpur
2. S	ammary of Project/ Scheme /	Activity
F	Name and location of the Project/Scheme/Activity; Objective of the Project/Scheme/Activity.	Implementation of Automatic Reactive Power Solution on 33/11 KV substations in Jodbpur DISCOM The objective is to automate the reactive power and optimize the
		performance of the distribution grid of Sub Stations of JdVVNL, Jedhour
	Authorized person for this Project/Scheme/Activity:	Name: Sh. Planod Tek, Managing Director, JDVVNL E-meil ID: md.jdvvnl@rajasthan.gov.in Land Line: +91 291 2742229 Mobile No: +91 9413359001 Fax No : +91 291 2741870
d.	Nature of the Project/Scheme/Activity: Interstate/Intra-State	Intra-State
е.	Identified Beneficiaries	The State Grid of Rajashtan and Regional Grid of Northern Region of India. The Project will strengthen the Medium Voltage Network of the State which will in turn benefit the Distribution Licensees, the JdVVNL, Joshpur.
f.	Merits of the scheme	
		Better Management of Volt-VAR
g.	Limitations, if any	Installation process may take considerable time.
<u>–</u> հ.	Time frame of Implementation	24 months
ť.	Estimated Cost of Project/Scheme/Activity:	Rs. 216.38 Crores
j.	Category under which the project is classified (Please refer Para 5.1 of the Guidelines/Procedure)	5.1 (b) as per Guidelincs/Procedure for Disbursement of Fund from Power System Development Fund

qv)

Er. M.L. Benda SE (I&S), Jawwil, Ju

DETAILED PROPOSAL (DP)

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1. DETAILS OF THE REQUESTING ORGANIZATION / PROJECT ENTITY

1.1 Details of Organization / Entity

—	Jodhpur Vidyut Vitran Nigara Limited, Jodhpur
Acronym or Abbreviation (if applicable)	JAVVNI.

1.2 Details of Head of the Organization

Name (Mr/Ms/Mrs)	Mr. Pramod Tak
Designation	Managing Director
E-mail Adoress	md.jdvvnl@rejasthan.gov.in
Land line No	+9(291 2742229
Fax No.	+91 291 2741870
Address	New Power House, Basni, JODHPUR
City	Jodhpur
Postal Code	342003

1.3 Details of Project Incharge/ Project Manager (Authorized Person) for this project / scheme / activity (Not below the rank of Dy. General Manager / Superintending Engineer)

Name (Mr/Ms/Mrs)	Mt. M.L. Benda
Designation	Superintending Engineer (I&S)
E-mail Address	
Land Line No.	
Fax No.	9413359036
Address	2 nd Floor, Old Generation Building, New
	Power House, Basni, Jodhpur
City	Jodhpur
	342003

Any change in above mentioned details may be notified to the Nodal agency of PSDF immediately.

Er. M.L. Benda

2. Justification of the Proposal

2.1 Analysis of the Objective

CENERAL PROFILE OF JODHPUR DISCOM

S.No.	Particular	UNIT	March, 2022
l	Area		182509
5	Population 2011(as per 2011 Census)	Crore	2.00 (2,00,10,828
3	Nos. of O & M Circles	Nos	12
4	Nos. of Q & M Divisions	Nos.	
5	Nos. of O & M Sut-Divisions	Nos.	
5	Nos. of 33KV Sub Stations	Nos.	2337
7	Nos. of Consumers (Regular)	Lats	45.6
3 –	No. of Ag. Consumers (Regular)	Lacs	
»—	Average Monthly Energy Draw (LU)		4.26
10 -	Average Monthly Energy Sold (L1.)		24478.40
ι	Average Monthly Rev Assessed (Rs. Crores)		19312,16
2	Averege Monthly Rev. Realisation (Rs. Crozes)	$-\frac{CR}{CR}$ –	1472.71
3	Percentage Realisation		1480.90
4	T&D loses As on MAR 2022.	%	200.56
5	No. of 11ky Feeders		21.11
6	No. of Urban i Jky Feeders	Nos.	1:690
7	No. of Rural Hky Feeders	Nos.	1253
-	CIGE OF ACOUNT FIRM POEDCIS	Nus.	10437

The problem / constraint to be addressed:

The reasons for high AT&C Losses in the state are primarily the following:

- Non availability of reliable Reactive Power compensation solution, resulting in high technical losses.
- Deficiency in the organizational setup (O & M) & Financial Support from Govt.
 Power Dept.
- Electricity consumer in the state consists mainly of domestic (17.84%), Agriculture (60.52%), industrial/commercial consumer (10.10%) and water works and other (11.54%).

Er. M.L. Benda

- The Dept is also plagued by shortage of manpower. All these factors lead to inefficiency of the power sector. Therefore reduction of AT&C Losses requires a very committed road map/policy of the Govt by considering electricity as a business commodity for essential contribution towards the growth of the economy (resources) while notwithstanding the social obligation in providing energy as a basic need.
- The state is forced to maintain a high HT line length ratio owing to the extremely extended area 182509 KM where electricity is transmitted to long distances due to which frequency and voltage could not be maintained to specified limits.. Hence voltage at receiving end drastically drops and leads to drawl to excess current. Same can be understand by formula of Power, P(KW) = √3xVxIxCosø, according to this formula V∝ I.
- This distributed population not only increased the capital investment requirements of the state but also makes the maintenance and monitoring of the network very difficult.
- Defective meters, tampering and power theft are the main causes for high AT&C losses. With prepaid metering the AT&C losses in the State may improve drastically and also alleviate shortage of manpower.

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JdVVNL have envisaged following measures for bringing down AT&C losses;

- Installation of Automatic Power Factor Control (APFC) Capacitor banks at ell 33/11 kV transformers.
- Identification of loss prone area by tagging of consumers with DTs and feeders for energy accounting.
- Load verification of agriculture category during peak session and ensuring billing accordingly.
- Improvement in HT/LT ratio.
- \gg Formation of Special Task Force for raid against theft.
- Implementation of IT enabled services for power consumers. This has great potential in reducing losses and providing consumer friendly services.
- Smart Metering under RDSS Scheme.
- > Feeder and DT metering for accurate energy accounting.
- Introduction of modern technologies to monitor reliable and quality power supply.

Er. M.L. Benda SE (I&S), JdVVNL, JD

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Introduction Of APFC Panel

In present condition, the H KV capacitor bank is controlled by manually switched devices like Isolators/Load Break Switch or circuit breakers. This old practice has disadvantage as compared to modern automatically switched Capacitor Bank.

- The ON/OFF operation of capacitor bank is depending on one operator and it is difficult to control on switching ON/OFF the capacitor bank as per varying load condition.
- There are only two possible conditions in manually switched banks, complete bank is either fully in their circuit or out of circuit and reactive power compensation cannot be closely matched with the varying load condition.
- This results in over compensation or under compensation of reactive power at varying load condition.
- If one of the capacitor units from the capacitor bank is failed, whole capacitor bank will become the.

Following are the some advantages to propose the Automatic power factor correction systems up to 11 KV.

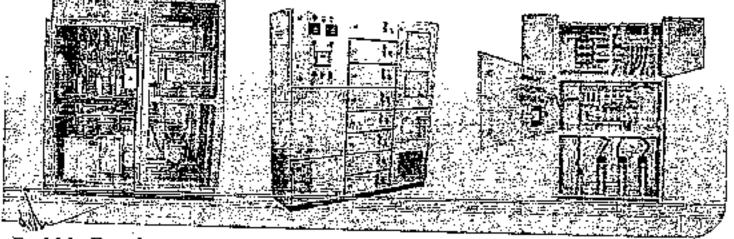
The APFC scheme is to provide an effective control of capacitor bank installations in Substations to maintain power factor onder varying load conditions, for any sub-station load on Transformer changes during a 24 Hour daily load cycle. This variation of load depends upon type of load i.e. Urban Load, Rural load, Agricultural Load, Industrial load etc. The load pattern will be different for different loads. Thus load variation will follow certain pattern and which could be divided into four or six periods in a 24 Hour daily load cycle. Power factor would also vary and at the same time actual requirement of Capacitors in circuit will also vary. If steps are provided with capacitor banks to switch them as required it will help the Electricity Supply Authority to maintain the power factor at desired level throughout the day.

This load variation has been observed to change from 8 % to 68 %. When conventional fixed type capacitor banks are used the capacitor bank will provide compensation of certain level and in an event the bank is not removed from the circuit at low load, it will provide overcompensation to the system. In conventional fixed type capacitor bank temoving required capacitor cells from circuit is very cumbersome process as the lineman/operator has to switch on Breaker, Isolator, disconnect the fuse to isolate the capacitor cells and switch ON all the equipments once again. This will again depend upon availability of trained man power for such purpose.

Overcompensation has harm full effects on Capacitors, switching devices. Outdoor type H.T. Capacitor bank with facility of automatic switching of required number of steps with the help of capacitor switch. The bank comprising of externally single star connected Capacitor bank, 0.2% to 0.4% Series Reactors for switching inrush current suppression at neutral end, RVT for unbalance protection.

(s.t-sr) EA[®]Regrigation (2) Capacitors and the resoluti voltage transformer shall be as par Reference El (i) The capacitors shall be all parametic switched byte for sub-stations of 5 linth enologies reagancy.

(4) Where no-soluted (2016) respective are provided, the rates statil bechasts up as to provide over complexition during off peak periods.



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BENEFITS OF POWER QUALITY EMPROYEMENT

) Difficult to	Improved voltage stability margins Reduction in equipment failure rates Reduction in equipment mal-function	<u>Compliance to standards</u> <u>Compliance to recolations</u> <u>CDM benefits</u>
Quantify	Reduction in equipment losses Release of blocked capabily	Depreciation benefits Locentives
Easy to Quantify	Reduction in T & D loss	Penalties Statutory lovies Tariff benefits
	Technical	Non-Technical

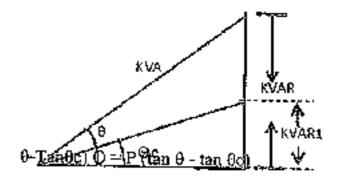
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DETERMINATION OF THE CAPACITOR BANK RATING

The size of capacitor unit (or Bank) required may be determined from the following formula:

 $Q = P (\tan \theta - \tan \theta c)$ Where: Q = KVAR requiredP = Active power in KWCos θ = Power factor before compensation Cos θc = Power factor after compensation Tan θ = Perpendicular/Base



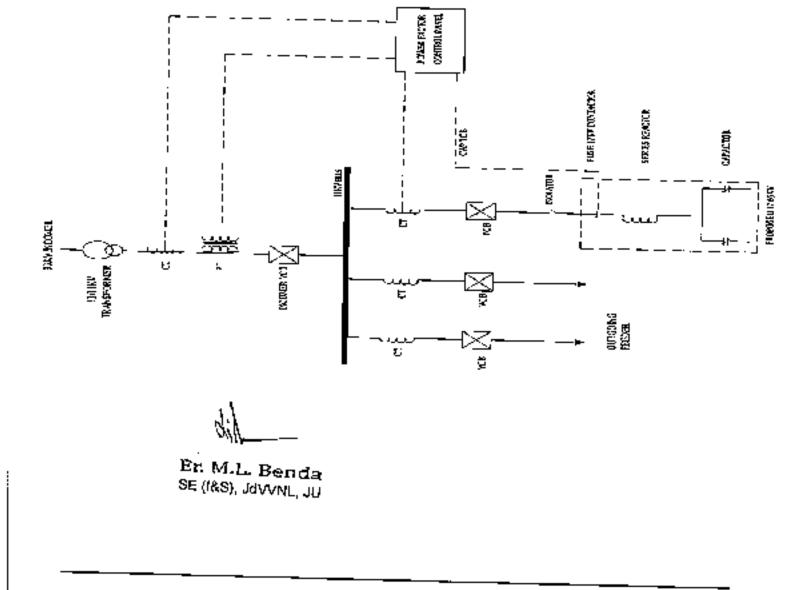
ΚW

Tan θ = KVAR/KW Tan θ c = KVAR1 /KW KVAR = KW (Tan θ) KVAR1 = KW (Tan θ c) (KVAR-KVAR1) = KW (Tan

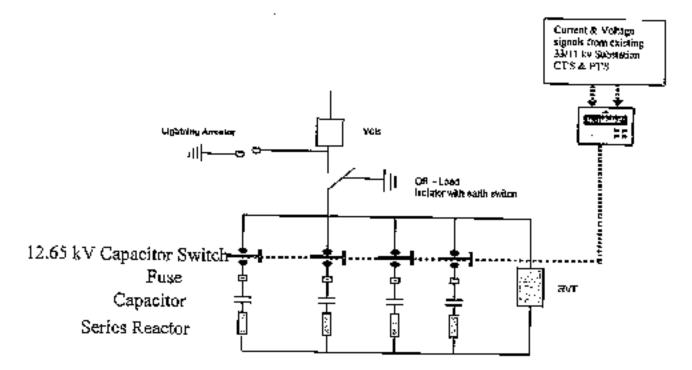
Er. M.I., Benda Table Indicating capacitor size in KVAR for each KW Load föröcorradiu from different P.F to higher P.F

18 CT 19 CT			181.21	· · · · · · · · · · · · · · · · · · ·							
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	0.42	1.41	1,40	1,67	1,75	3월1	1.87	1.93 F	32.90	2,09	2.20
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1,63	0.48	7.08	1, † 1	1.21	1.20	1245	1.50		<u>i</u> 194	1,73	1,03
1.73	. 0,50	0.99	1.00	1.13	T.19	124	1.40	1.47	31.54	1.62	1.93
1.64	0.52	0.89	0.04	1.02	1.10	12.6	1,31	1,37 😳		1.63	1.23
1.56		0.01	0.65	0.04	1,02	1,07	1,13	1.28 5-	; 1 -12	1.44	±,₿4
1.40	,	0,73	0,79	0.00	0.94	1.50	1,05	1.12 [*	1 . K	1,36	1.00
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1.33		0.58	0.63	10, Y T	0,79	0.85	0.01	0.07		1.13	1.20
1.30	0.61	0.55	0.60	0.60	0.7G	0.31	0.07	0.04	1.61	1.10	
1.27		0,92	74,0	0.65	0,73	ођа	0.84	0.91	0.66	1.06	1.17
1.23 7 20 1	10.53	0.48	0.53	0.61	0.00	0.7s	0.61	0.07	0.94	1,03	1.23
1,17	6.84	0.45	0.50		0.66		0.77	0 81 50	10.01	1.00	1.20
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	0.40	0.30	0.44		0.60	10.01	0.71	0.70	0,85	0.04	111

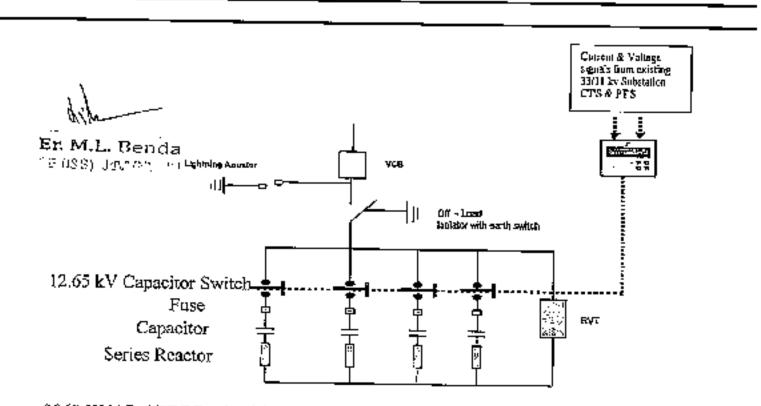




SINGLE LINE DIAGRAM PROPOSED for APFC PANEL ON 3.15, 5.8 and 10 MVA TRANSFORMER AT 33/11 KV SUBSTATIONS



1980 KVAR APFC Bank with 3 Steps of 396+792+792kVAr for , 33/11 KV, 3.15& 5 MVA Transformer



3960 KVAR APFC Bank with 4 Steps of 792+792+1188+1188kVAr for, 33/11 KV, 8 & 10 MVA Transformer

Objective of the project / scheme/ activity;

Maintaining voltage by reactive power management

Voltage Control in an electrical power system is important for proper operation for electrical power equipment to reduce technical losses, prevent damage to equipment's, overhead lines etc. In general terms, decreasing reactive power causes voltage to fall while increasing it causes voltage to rise. When reactive power supply lowers voltage, current must increase to maintain power supplied, causing system to consume more reactive power and the voltage drops further. If the current increases too much, transmission lines go off line, overloading other lines and potentially causing cascading failures.

This can be controlled by managing the reactive power in the system. To introduce Reactive Power, capacitors are the cheapest and the simplest means. By introducing Switched Capacitor Banks, precise and real time compensation of Reactive Power can be achieved. By achieving precise Reactive Power Compensation, overall healthy voltage profile can be achieved.

Advantages to JDVVNL:

- a. Improvement in Voltage level.
- b. Reduction of losses in lines and transformers.
- c. Reduction of over loading means less heating cables, conductors, transformers etc.

d. A better utilization of the capacity of the generators, transformers, switchgear, cables lines, etc., means increase in efficiency of the system.

- e. Reduced depreciation charges on capital outlay and less capital investment.
- f. Reducen reactive power drawn charges to NRLDC
- g. Reduction in T & D loss (through reduction in current) ī.
 - Additional units available for sale
 - iī. Lower impact on environment
- h. Release of Blocked Capacity (through reduction in apparent power) ί.
 - Defer Capital Investment
 - ii. Better utilization of fixed asset/capital investment
- i. Better asset management (operation at lower temperatures)
 - **i**. Lower life cycle cost н.
 - Longer life of equipment & lower replecement cost Better voltage profile

Er. M.L. Benda SE (I&S), JOVVNL, JU

Date: 30.06.2023

Signature; Name: M. L. Benda (Project Nodal Officer) (Authorized Representative)

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Required physical additions/equipmont in power system

As per BOQ and the DPR.

- Financing and other commercial details 90% grant under PSDF.
- Merits and limitations (if any) in the implementation of the project / scheme / activity
 The deficiencies in the old system are expected to be remove provided the project is funded with
 full grant. However, training of the engineers to familiarize with the new state of art equipment's
 will have to be looked into.

2.2 Identified Beneficiaries of the Project

The beneficiary of the schemes is Jodbpur Vidyut Vitran Nigam Limited. Jodhpur, State Power utilities suffer from frequent load shedding, tripping due to over loading of transformer resulting in loss of revenue. This system will provide much needed relief to the already overloaded and stressed grid sub stations of JdVVNL.

2.3 Identified Source of funding

90% funding is being proposed through PSDF for installation of 730 Nos. Automatic Reactive Power Solution on 33/11 KV substation in Jodhpur DISCOM in the general interest of providing better power supply to the consumers as JdVVNL is not financially sound.

Contribution from Internal Sources:

10% through internal funding.

Contribution from External Sources:

No external borrowing is envisaged as the project is planned for 90% funding through PSDF and 10% through internal funding.

2.4 Details of Activities for project / Scheme / Activity

Process of implementation

The project will be implemented in following phases:

 Installation of automatic reactive power solution system equiptment; S/I/T/C and FMS of Capacitor Cubical Panels, Outdoor Kiosk VCB, Isolator and allied equipment's.

Signature: Name: MFE: Bonda- Benda (Project Notal Officed)/VNL, JU (Authorized Representative)

Date: 30.06.2023

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Present the voltage profile for SS worsened due to load growth in last 5 years and need to install Capacitor Barks in s/s where the voltage profile needs improvement.

To achieve Volt/ volt ampere reactive optimization and Energy conservation through voltage reduction JdVVNL is proposing 730 sub stations for Automatic Reactive Power Solution system as per below list.

Sr. No.	Name of Substations	Transformer Capacity (MVA)	Sub Station/ Transformer Peak Loading (MW)	Voltage During Average / No Load	Voltage During Peak
_ 1	MATEANIA	5	4.56	10.3	_Load
_ <u> </u>		5	4.47	10.3	9.7
3	UMMED NAGAR (JOOD)	5	4.52	10.2	8.9
_4	RAMPURA+RICO	5	4.98	10.2	9.7
5		5		10.2	9.7
6		3.15	2.78	10.2	8.9
7	RAJASANI	3.15	2.83	10.2	<u> </u>
8		3.15	<u> </u>	10.5	8.9
_9	NEWRA ROAD	3.15	3.09	10.5	<u>8</u>
10		3.15	3.05	10.5	9.1
11	210644 BC4 014	5	4.78	10.5	- <u></u> 9.3
12	XIRMARSAIYA	S	4.87	10.5	
13		3.15 1	2.94	10.3	<u>9,8</u>
. 14	BHENSER KOOTRI	3.15	2,98	10.3	
15		3.15	2.94	10.3	 9
16	JOOD	3.15	2.8	10.3	<u>9</u>
17		3.15	2.95	i 10.2	<u> </u>
18	KHARDA	3,15	3.02	10.2	
19		3.15	3.05	10,3	<u>- 4,9</u>
20	NEWRA GAON	5	3	10.3	 8.9
21		3.15	2.82	10.5	9,2
22,	GAGADI	3,15	2.8	10.5	9.2
23		5	4.78	20.5	<u>9.7</u>
Z 4	MANDIYALKALLA	5 1	4.82	10.5	<u>6.9</u>
25	·	3.15	2.75	10.5	- <u> </u>
26	BALARWA	3.15	2.69	10.5	<u> </u>
27		3.15	2.83	10.5	9
28		1 ·	4.69	10.5	
29	MINIYARD TINWARI	5	4.78	10.5	<u>0.9</u>
30	CHERRYPH	3.15	2.74	10.2	<u> </u>
31	GHEWARA	5 1	4,34	10.2	8,9
32	PANCHALA	3,15	2.62	10.2	<u>9</u>
		3.15	2.81	10.2	9.2
34	BADA KOTECHA-II	3.15	2,76	10.2	9. &

Date: 30.06,2023

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Signature: Name: M.E. Benda (Project Nosial Officer)dV/P(L, J) (Authorized Representative)

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35	1				
36		3.15	2.81	10.3	e
37	BAOLA 9ASNI	3.15	2.77	10.3	9.1
	┤ _	3.15	2.72	10.3	8.9
39	MANDIYAI KHURD	3.15	2.94	10.2	
40	——— ·——— ·———	3.15	3.01	10.2	9
<u>40</u> Δι	MALUNGA	<u></u>	3.1	10.2	8.9
42	GOPASARIYA	3.15	3	10.3	- <u></u>
} <u> </u> +		3.15	3.05	10.3	8.9
45	BHALASARIYA	<u>3.15</u>	9.09	10.2	9
45	THÓB		2.82	10.2	9.3
46	<u> </u>	3.15	2.73	10.2	8.9
40	HARLAYA	3.15	3.01	10.5	- <u> </u>
	OSIAN	3.15	2.99	10.5	9.1
48		<u> </u>	4.7	10.5	9
49	CHERAI	3.15	2.77	10.5	
50	SINWARO KI DHANI (3.15	2.85	10.3	8.9
51	SIRMAND:)	3.15	2.88	10.3	9.2
52	SOMERI BHAKARI	3.15	2 85	10.3	9
53	BHIMSAGAR	3.15	2.92	10.4	+ <u> </u>
54		3.15	3.01	10.4	9
55	BERDO KA BAS	3.15	2.98	10,3	+ <u> </u>
_56	_ <u>_</u>	3.15	2.89	10.3	9 -
57	RAWAT BERA	3.15	2.77	10.4	8.9
58	JAKIIRO KI DHANI	3.15	2.78	10,4	9.3
59	B ARAKALLA	3,15	2.54	10.5	9.3
60		3.15	2.59	10.5	9.2
<u><u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u>	DHANARI KALLA	3.15	2.75	10.5	
52		5	4.31	10.5	9.2 j
63	CHINDARI	3.15	2.71	10.2	9
. 64		3.15	2.75	1 10.2	- ě
<u> </u>	NANDIYA KHURD	3.15	3.01	10.3	9.3
66	JELAV NADI	3.15	2.91	10.2	9.2
67		3.15	2.66	10.2	9
68	JETIYAWAS	3.15	2.91	10,3	9.3
69		3.15	3.03	10.3	+ <u>- 9</u>
70	SELVI NADI(RAIKORIYA)	3.15	2.98	10.3	8.9
-71	TAPL	3.15	3.08	10.4	9.3
		3.15	3.15	10.4	9.1
73	NOSER	3.15	3.09	10.2	8.9
74		5	4.75	10.2	9
75		3.15	2.8	10.5	9.1
76	KANKRALA	3.15	2.95	10.5	9
77		3.15	2.77	10.5	
78		3.15	2.62	10,2	9
79	PADASALA	3,15	2.78	10.2	8.9
		3.15	2.68	10.2	9
81	NIMBO XA TALAB	3.15	2.82	10.2	9,2
				÷ • • • • • • • • • • • • • • • • • • •	

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Signature: Name: MELT Benda (Project Notes Officer dVNL, JU (Authorized Representative)

82		3.15	1 7 02	1 4	
83	<u> </u>	3.15	3.02	10.2	<u> </u>
84	KHEDAPA	5	2.63	10.5	9.3
85		- 3.15	4.24	10.5	9.3
86	ANWANA OLD	3.15	2.85	10.4	9
87	<u>_</u>		2.83	10.4	+9.1
88	BIRAI	3.15	2.9		9
89	_	3.15	2.86	10.2	9
90	DANWARA	3,15	2.73	10.2	9
91		3.15	2.82	10.2	9.1
92 j	BAORI		4.74	10.5	89
93	BOONING ZURAGAU	5	4.83	10.5	9
94	POONIYO XI BASNI	3.15	2.91	10.3	9
95	KAJNAU KHURD	3.15	2.88	10.5	8.9
96		3.15	2.8	10.5	9
	KAJNAU KALLA	3.15	3.02	10.3	9.3
97		3.15	2.72	10.3	9 -
98	ANWANA NEW	3.15	2.94	10.4	9.2
90	MANAL	3.25	2.86	10.5	ا و ا
100		3,15	2.72	10.5	8.9
101	INDROKA	5	4.94	10.5	9
102		3.15	3.14	10.2	9 -
103	SALAWAS	5	5.04	10.2	9
104		5	5.13	1D.2	9.7
105	DHANDHORA	5	4.08	10.5	9.2
106	HEERADES-IAR	3.15	2.86	10.2	9.3
107		3.15	2.78	10.2	9
108	DHORU	3,15	2.69	10.2	8.9
109	RAJLANI	3.15	2.77	10.2	9
110		3.15	2.6	10.2	8.9
_111	DEVAR	3,15	2.83	10.2	8.9
112	HINGOLI	5	4.47	10.2	9
113	GAISINGHPURA	3,15	2.98	10.2	9.1
114		3.15	2.72	10,2	9
115	RAMPURA	5	4.56	10.2	8.9
115	ASOP	3.15	2.89	10.2	8.9
117		5 -	4.56	10,2	<u></u>
118	ARTIYA KALLAN	3.t5	2.74	10,2	
119		3.15	2.91	10.2	9.1
120	JARNI KHURD	5	4.51	10.Z	
121	MANGERIYA	3.15	2.68	10.2	
122		5	4.43	10.5	- 9
123	BILARA	5	4,34	10.5	
124		5	4_58	$-\frac{10.5}{10.5}$	- 9
125	SOJAT! GATE	5	4.56	10.5	
126 j	Dill/And have not a	3.15	2.67		8.9
127	DIWAN JI KI PIAO	3.15	2.51	<u>10.5</u> 10.5	9
128	KHARIYA M. THAPUR	3.15	2.78		- 9.1
		4180		10.5	9

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Signature: Name ENI. 12/BendeB en da (Projec Asin all Stiller YNL, JU (Authorized Representative)

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129	1		1		1
130	I JRAK	<u> </u>	4.5	10.5	<u>9.2</u>
191	<u> </u>	3.15	2,54	10,5	9
132	UDALIYAWAS	3.15	2.69	10.5	9.9
133		3.15	2.63	10.5	2
134	BANSI GAON	3.15	2.71	10_5	8,9
135	┦─ ·─── ─ ─── ─ ──── ─ ───	5	4.27	10.5	9
135	PIPAR CITY	<u> </u>	4.75	10.5	8.9
130	– _	_ 5	4.66	10.5	. 9
L	SATHIN	1.6	1.46	10.5	8.9
. <u>138</u>	<u></u>		2.94	10_5	9
139	KHARIYA KHANGAR	3.15	2.71	10.2	8.9
140	PABUNAGAR	3.15	2.74	10.5	8.9
141	AMRIT_NAGAR	3.15	3.14	10.5	i 9.1
142	RATORI GAL (BASTWA)	3.15	3.06	10,5	9
143		3.15	3.08	10.5	9,3
<u> 144 j</u>	CHIDWAI	3.15	2.72	10.2	9
145	DERIYA	3.15	2.67	10.4	9
145	KERU	3.15	2.85	10.5	8.9
147	GODELAI	3.15	2.68	10.3	9.2
148	BHOMSAGAR	3,15	2.88	10.5	9
149	GUMANPURA	3.15	2.93	10.5	9
_ 150 i	PABUSAGAR UNTHAWALIYA	5	4.15	20.2	9
151	BA6A KI	3.15	2.8	10.3	9.1
152	NJMBARI(DHEERPURA)	3.15	3.03	10.5	9
153	KANODIYA PUROHITAN	3.15	3.1	10.6	9.2
154	BHALU KALLA	3,15	2.82	10.2	9
155	KHIRJAKHAS	3.15	2.88	10,5	9,2
_156 [СНАВА	3.15	3.01	20.5	<u> </u>
157	SOINTRA	3.15	$+ \frac{2.91}{2.91}$	10.5	<u>9,2</u> 9
158	KHIRIA TIBNA	3.15	2.9	10.3	
159		3.15	2.95		8.9
160	NOKHDADA BHATIYA	3.15	2.81	10.1	8.9
161	RAD KA BERA	3.15	2.88	10.3	<u> </u>
162			4.54	<u> </u>	9
163	CHRITERBERA	3.15	2,85	10.4	9.1
164		3.15		10.3	9
165	CHADI	3.15	2.76	10.3	9
166		3,15	2.83	10.4	8,9
167	KRISHAN NAGAR	3.15	2.93	10.4	9
168	- ·	·	3.02	10.2	9,2
169	RIDMALSAR	<u>- 3.15</u>		10,2	9
270		3,15	2.78	10.4	8.9
171	MANASAR	3.15	2.71	10.4	9.3
172	BOOMCADY	3.15	2.7	10.5	<u> </u>
173	BOONGADI	3.15	2.59	10.5	8.9
174	INDO KA RAS	3,15	2.59	<u>10.2</u>	
175	IGNP PHALODI	3.15	2.62	. <u>10.7</u>	9.1
		3.15	2.62	, 10,2	9

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Signature: Name:EX: LA&rbdaBencla (Project \$664 \$6(fiter)/NL, JU (Authorized Representative)

176	(BAP) 8.0.1120	3.15	2.25	1	1
177		3.15	2.27	- <u>10.8</u>	8.9
178	DURGANI	3.15		10.2	9
179	·	3.15 I	2.78	10.2	9,1
180	SHEKHASAR	3.15	2.82	10.2	9
181	·····	3.15		10.5	8.9
182	ANOP NAAGAR	3.15		10.5	9
183	RIN SALT	3,15	2.88	10.2	9.1
184		3.15	2.85	10.2	9
185	JHARASAR KALLA	<u> </u>	2.89	10.3	9
186	Rampura(Raneri)	3.15	2,,7	10.2	9,3
187		3.15	2.62	10.2	9.2
188	JETERI	5	4.65	10.3	9_
189		<u>9.15</u>	2.85	10.3	8.9
190		3.15	2.85	10.3	8
193	KUSHLAWA	3.15	2.82	10.2	9.1
	BHOJAKOR	<u> </u>	4,61	10.3	9.2
192	MORIYA	3.15	2.88	10,5	9.1
193	AMLA	3.15	3.02	10.3	9
194 !	Chainpura	5	4.7	10.4	8.9
195	SHIVSAR	3.15	2.8	10.5	8,9
196		5	4.08	10.5	9
197	8AORI KALLA	3.15	2.48	, 1D.5	9.2
298	RAYADA	5	4,46	10.2	- 8.9
199		3.15	Z.98	10.2	9
200		3.15	3.01	10.2	9.1
201	JALODA	3,15	2.77	10.2	- 9
202		3,15	2.83	10.2	8.9
203 _		3.15	2.88	10.2	- 9
204	MANDLA KHURD	3.15	2.89	10.2	9
205		3.15	2.98	10.2	9.1
206	KHARA	3.15	2.98	10.2	
207	KHARA	3.15	2.89	10.2	<u> </u>
208	KOLU PABLUI	3.15	2.95	10.2	9
209	BENGTI KHURD	3.15	2.89	10.z	9
210		5	4.56	10.2 j	<u>-</u>
211		3.15	2.91	10.2	- ě
212	AFHIC	5	4.61	10.2	8.9
213	MANDLA KALLAN	3.15	2,95	10.2	9,2
214	EKA BHATIYA	3.15	2.91	10.2	<u>9.2</u> 9
215			4.54	10.3	8.9
216	JEMALA	3.15	2.85	<u>, 10.3</u>	<u> </u>
217	_	3.15	2,94	10.5	
218	GALIA	3,15	3.01		<u>8,9</u>
219	_	3.15		10.5	8.9
	BARSANADA	3.15	<u>2.94</u> 3	10.5	9
220					
220 221	KAPADISAR	3.15	2.67	10.5	<u>9.1</u> 9.3

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Signature:

Name: M. MEendBenda (Projest Noda: Officer NL, JU (Authorized Representative)

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223	SADAWATA	3,15	2.78	10.5	<u></u>
224	Goyali Road	5	4.12	10.58	<u>9.5</u>
225		3.15	3	10.58	9.3
226	Sirohi City	5	4.74	10.52	+ <u></u> , 9.6
227	Sindrath	9.15	2,74	10.41	9.6
228	Jawal			10	9,5
229	381081	3.15	2.78		<u> </u>
230	Padly	3.25	2.5	10	9,7
231	Vərada	3.15	2.7	10	9.5
232	Sheogon/Riico		4.34	10	9.6
239		3.15	2.78	1 10	9.6
234		3,15	2.7	10	9.6
235	Palaci	3.15	2.78	10	9.6
236		3,15	2.6	10	<u> </u>
237	Sawali	3.15		10	9.7
238	Kalendari	3.15	2.8	10	9.5
239	Naisingan	3.15	2.23		9,6
240		3.15	2.56	10	9,6
241	Krishnaganj	3.15	2.7 -	10	9.5
242		3,15	2.5	10	9.7
Z43	MerMandwara	3.15	2.4		9.6
244	irewneT	3.15	2.23	10	9.6
245		3.25	2.5	10	9.6
246	Sirohl Read	3.15	2.6	10	9.6
247			4.65	- 10 -	9,5
248	Pindwara City	- <u>5</u> 5	4.34	10	9.7
249	Banas		<u>4.5</u>	+ <u>10</u> -	9.7
250	Veerwada	3.15	2.38	- 10 -	9.5
251	Nadiya	3.15			9.6
252	Gandhi Nagar	10		10	9.5
253	<u> </u>		<u> </u>	9.78	<u>9.</u> 7
254	AmbajiladAr	10		9.7	9.6
255	Khara	10		9.7	9.6
256	Mangur		7.38	9.7	9.6
257	Deldar	3.15	6.87	10.5	9,8
258	Karoli	3.15		9.7	9.6
259		3.15	2.34	9.7	9.7
260	Moogthala	3.15	2.4	9.7	9.5
261	Girwar	3.15	2,34	9.7	<u>9.</u> 5
262	Mawal		2.43	9.7	9.5
263		3.15	1.98	9.7	9.7
264	Mt. Abu	<u>5</u>	3.5	9.7	9.6
265	Mandar		3.4	9.7	9.6
265		3.15	2.88	10,2	9.6
267		3.15	2.35	10,2	9.6
268	Jethawada	3.15	2.5	9.8	9.6
269 j	Morwada		4.5	9.8	9.6
		3.15	2.45	9.6	9.7

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Signature:

Name: M. LA Penda Benda (Project Body Official Not. JU (Authorized Representative)

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270		3.15	2,7	9.8	9.6
271	Magriwada	3.15	2.55	9.8	9.7
272		3,15	2.86	9.8	<u></u>
273	GusaisərBada	3.15	2.67	9.8	9
274		3.15	2.78	9.8	9.1
275	Mankrasar	3.15	2.97	9,8	8.9
276		3.15	3	9.8	9
277	Binjasar 1st	3.15	2.37	9.8	9.2
278	Binjasar 2nd	3.15	2.27	9.8	8.9
279		3.15	2,47	9.8	9
280	Benisar	3.15	2.4	10	8,9
281		3.15	2.78	i io	9
282	Dusarna-1	3.15	2.85	10	9.1
283	Dosarna-1	3.15	2.8	10	9.3
ZB4		5	4	10	8.9
285	Jetasar	3.15	2.7	10 -	9
286	THUKRIYASAR-1	3.35	2.61	9.9	9
Z87	THUKRIYASAR-II	3.15	2.8	10	
288	Jai salSar	3.15	2.33	10	8.9
289		3.15	2.71	9.9	9
290	Copelsar - I	3.15	2.66	9.9	8.9
291		3.15	2.62	- <u></u>	- <u>5</u>
292	SATTSAR	3.15	2.38	$+\frac{10}{10}$	<u> </u>
293	DHEERDESAR PURIHITAN	3.15	2.58	10.1	9,2
294		<u> </u>	3.57	10.1	9.2
295	LIXHMADESAR-1	3.15	2.69	10.1	
296 j		3.15	2.78	10	<u>8.9</u> 9
297	LIKHMADESAR-III	3.15	2.42	10	9.1
298	·	3.15	2.52	10 -	
299	AADSAR	3.15	2.5	01	9
300		3.15	2.4		9
301	UDRASAR	3,15	2.85	- 10	8.9
302	LALASAR	3.15	2.71	10	9.1
303	SARNA JOHAD	3.15		10	9
304		3.15	2.87	10	8.9
305	Ramdevra	3.15	2.47	10	9
306	Seruna <u>1</u>		2.6	10	9.2
307			4.2	10	9.2
308	Derajser - I	<u>3.</u> 15 5	2.4	10	9.1
309			4.23	10	8.9
310	Gogana	3.15	2.19	10	8.9
311	Sarunda	3.15	2.47	20	9
312		3.15	2.4	10	8.9
313	Siniyala - I	5	4.36	10	9
_		3.15	2.5	10	8.9
314 <u> </u> 315	Hanuman Nagar	3.15	2.4	10	9
315	Bhadla	3.15		10	8.9
210	Nathusar	3.15	2.35	1 10	2

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Signature: Name:<u>Mr</u> LingendaB e n d a (ProjectSB08 S)(firstA/NL, JU (Authorized Representative)

1 317	1	1 345		1	
318	Salsar	3.15	2.39	10	0.8
319	<u>├──</u> ── <u>─</u> ──	3.15	2.49	10	9.1
320	Ratriyaphanta	. 3.15	2.4	10	8.9
321	LalaşarŞathri	3.15	2.8	10	9
322	Bhedkitalai	5	4.23	10	9.4
323	Mainsar	3.15	2.32	10	8.9
324			4.24	10	9
325	Jbarell -)	5	4.45	10	8.9
326		3,15	2,4	20	<u> </u>
327	Gundusar	3.15	2,3	10	9.1
325	·	3.15	4.3	10	<u>ę.</u> 8
329	Udsar		2.6	10	9
330	Jharell-II	5	2,4	10	9.2
331	Shiv Mandlr	3.15	2.85	10	. 8,9
332	Binagwatikund	3.15	2.19	. 10	9
333	SUJASAR	3.15	2,7	10	8.9
334	Z. SURDHNA-ti	3.15	2.67	10	9.1
335	1. K.D JATAN -JI	3.15	2.85	10	9
336		3.15	2.8	10	8.9
337	1. NAPASAR	· · · · · · · · · · · · · · · · · · ·	2.7	10	<u>\$.9</u>
338		3.15	2.47	10	9
339	Gunsalsat-I		4.27	10	8.9
340	·	<u> </u>	2.19	10	9.2
341	Nourangdesar		4.36	10	9.2
342	NAPASAR - II	<u>3.15</u>	2.76	10	8.9
343		3.15	2.44	10	9
344	Z. RAMSAR -I	<u> </u>	4.35	10	9.1
345	· · · · · ·	3.15	4.48	10	9
346	3. BAMSAR-II	3.15	2.5	10 -	9
347	1.K.D.Boran-J	3.15	2,3	10	. 8.9
348	2.K,D, Jatan -I	3.15	4.54	10	9.1
349	1. K.D.Jatan-IV	3.15		10	. 9
350	2. KILCHU	<u> </u>	<u> </u>	10	- 8.9
351		5	<u></u> 3.89	<u>10</u> .	9
352	1. TEJRASAN - I	3.15	<u>3.89</u>	10	9.2
353	2. TEIRASAR • III	5		<u>1</u> 0	9.2 0 f
354	1. BELAŞAR		3.42	10	<u>9.5</u> 9
355	2. TEJRASAR - II	<u> </u>	4.57	10	9.5
356	2. SINTHAL	3.15 1	2.57		4
357		5 1	4.38	10	9.5
358	L D MAGARA	3.15	2.57	10	
359	JD MEGRA	<u>- 3.15</u>	3.8	<u> </u>	9.2
360		5	3.9	10 10	8.9
361	MEGHASAR	5	4.23	10	9.2
362	· · ·	1 5	4.23	- 10	9,8 9
363	BARSINGHSAR	5	4.34		
			- 4.24	v 10	8.9

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Signature: Name: M.E. Behda, Benci:: (Project Noffa(10f8)cet)/VVNL, JU (Authorized Representative)

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364	SWARQOPDESAR	3.15	2.23	1.10	
365	· · · · · · · · · · · · · · · · · · ·	3.15	2.23	10	9,3
366	BHANEKA	3.15	2.45	10	9.2
367	<u>_</u>	5 -	4.44		9
368	RANER	5	4.44	<u>10</u>	- 9-
369	HAODA	3.15	2.28	10	9.1
370		5		10	8.9
371	KHINDASAR	- <u> </u>	<u>3.81</u> 4	10	9.2
372	DHELU	5	4.57	10	<u>9.2</u>
373	SERPURA	3.15	<u> </u>	10	9.5
374		<u> </u>		<u>10</u>	9.6
375	KISHANASAR	3.15	2,73	10	8.9
376		3.15	2,46	<u> 10</u>	<u>9</u>
377	28 KJD	$-\frac{3.13}{3.15}$	2,67	<u>– 10</u> -	9.1
378	3 PWM		2.48	10	9,2
379	1 ADM	- <u>3,15</u> 3,15	2.29	_ 10	<u>9</u>
380	· · ·	3.15		10	9,1
381	Jamsar	$-\frac{3.15}{3.15}$	2.36		<u>e</u>
382	─── ── ── ──	<u> </u>	2.3		8.9
383	1. GADPWALA - I		2.45	10	9
384	– —	<u> </u>	4	10	9.1
385	2 GADHWALA - II	5	3.81	<u>10</u>	9.3
386		3.15	2.5	1D	8.9
387	Pugal RD 710	3.15	2.48	10	9
389		3.15	2.48		9
389	RD 750	3.15	2.29	10	9
390	BADERAN	3.15	2.5	10	8.9
 391 j	JETPUR	3.15	2,34	10	8.9
392		3.15	2.19	10	9
393	ARJUNSAR	3.15	2.45	10	8.9
394	i.olera	3,15	2.35	10	9
395	Mahajan	3.15	1.71	10	(1)。 第49章 医
396		<u> </u>	4.45	10	9
397	JAWAHARNAGAR	5	4.34	10	9
		_ <u> </u>	4.3	10	9.1
398		5	4.3	10.5	9,2
399	MAUSAM VIBHAG	88	6.3	10.5	9,8
400	· ·	<u> </u>	4.2	10.5	9.5
401	MAHALAXMI ENCLAV	\$	4.45	10.5	9.4
402	AGRAWAL COLONY	5	3.42	10.5	9.4
403	2 MU NATHAWAU	5	2.88	10.5	9.5
404		3.15	2.3	10.5	9
405	_	3.15	2.4	10.5	9.1
406	RIICO-I	8	5.89	10.5	9.8
407		5	4.17	10.5	9.3
408		5	4.3	10.5	9.2
409		8	5.7	<u> </u>	
410	RIICO-II	<u>`</u>	0.7	10.5	9.8

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Signature:_____ Name: M. L. Benda (Project Nogel Officer) Benda (Authorized Representative)VL, JU

<u>g:</u>†

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411 412	SHANI MANDIR	5	4.44	_ 10.5	9.4
+		<u>+ </u>	4.34	<u>, 10,5</u>	9
413	SABJI MANDI		8.78	10,5	9.2
114		5	3.8	10.5	^I 9.1
415	KUNI VIHAR	3.15	3	10.5	9.3
416	JCT	10	7.8	10.5	9.5
417		5	4,3	10,5	9.2
418	<u> 3 PUU</u>	10	8	10.5	9.2
419	BHAGAT SINGH CHOCK	8	6.6	10.5	9.8
420 <u></u>		j 8	6.5	10.5	9.8
421	KUMS	5	4.13	1,0,5	9
422		5	3.89	10.5	9.1
423	HOSPITAL	5	3.9	10.5	9.3
42 4 i		5	4.67	10.5	9.8
425	SADBHAWANA NAGAR	5	4.56	10.5	9
426		5	4,35	10.5	
427	V.K. CITY	5	4,48	10.5	- 9
428		5	4.45	10.5	<u> </u>
429	PHG	5	4	10.5	9.I
430	kaliyan	3,15	2.6	10.5	
431	khatlabane	3.15	2.9	10.8	9.6
432	dulapurkeri	3.15	2.03	10.6	9.6
433	hindumalkot	3.15	2.46	10.7	9.6
434	sadhuwall	3.15	 	10.9	9.6
435	7A	3.15	2.6	10.8	9.5
436	BURJAWAU	3.15	1.9	10.6	
437	CHUNAWAD	3.15	2.4	10.8	9.6
438	15Z	3.15	2.2	10.7	<u>9.6</u> 9.6
439	HOMELAND	5	3.4	10.9	
440	RISHI SICHI	<u> </u>	3.7	10.8	<u>9.6</u>
441		3.15	2.4		9.6
442	NETEWALA	3.15	2.8	10.7	<u> </u>
443		3.15		<u> </u>	9.1
444	7 ML	3.15	2.6	10.9	9.3
445 I	25 ML	3.15	2.5	10.9	9.5
446	DHINGAWAU		2.8	10.6	9.4
447	JODHEWALA	3.15	2.1	10.7	<u> </u>
448	SADULSAHAR	3.15	. 2.2	10.9	9,2
449		2.5	1.6	10.5	9.1
450	4 KRW	5	4.11	10.8	9.3
451	PARTAP PURA	3.15 !	2.74	10,3	9.5
452		3.25	2,22	10.5	9
453		3.15	2.37	10.5	9
	PATA <u>LI</u>	3.15	2.05	10.3	9.1
454		3.15	2.37	10.3	9.2
455 456	IPD5 KESRISINGHPUR	5	3.1	10.3	. 9
456	<u> </u>	3.15	2.6	10.3	9.5
457	DHNOOR	3.15	<u> </u>	1 10.3	9.4

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Signature:_____ Name: MEL:Banid_, Benula (Project Nobal@#09et)dVVNL_JU

(Authorized Representative)

458	DALPATSINGHPUR	3.15	2.4	10.3	9,4
459	KAMINPURA	3.15	22	- <u>10,3</u> _	9,4
460	ARAYAN	3.15	2.4	10.3	9.5 9
461	MALKANA	3,15	2.4	10.3	
462	MIRIEWALA	5	3,85	10.3	<u> </u>
463	186	3.15	2.2	10.3	· · -
464	KONI	j 3.15	2.8	10.3	9.3
465	DAULATPURA	3.15	2.1	10.3	9.2
466	MANFOOLSINGHWALA	5	4.5	10.3	<u>୨</u> ,4 ୨
457	GANESHGARH	3.15	2.24	10.3	9.4
468	GANESHGARH	3.15	2.6	10.3	9.3
469	LALGARH	3.15	2,4	10.3	9.3
470	PANNIWALI	3.15	2.2	- 10.3	9.2
471	BANWALI	3.15	2.4	10.3	
472	MAMMAR	3.15	2.49	10.3	9.4
473	KHARACHAK	3.15	2.02	10.3	9.4
474	5 LNP	3.15	2.3	10.3	<u>9.4</u> 9
475	SAMEJA	3.25	2.24	10.3	9.2
476	BAJUWALA	3.15	2.71	10.3	
477	SATJANDA	3.15	2,52	10.3	9,1
478	DABLA	3.15	2.61	10.3	
479	MUKLAWA	3.15	2.43	10.3	<u>95</u>
480	LOONEWALA	3.15	1.49	10.3	9.2
481	1695		7.22	10.3	9.2
482	UDSAR	3,15	2.33	10.3	<u> </u>
483	BHOMPURA	3.15	2.4	10.3	<u>9.5</u> 9
484		8	- · <u></u> ·	10.3	
485	RAISINGHNAGAR	3.15		10,3	9.8
486	SADA MANDIR		4,24	10.3	<u> </u>
487	RIICO	5	4.21	10.3	9.3
488	PADAMPUR	<u> </u>	<u></u>	10.3	9,5
489	24 BB	5		10.3	9
490	4.11	3.15	2.5	10.3	
491	4 DD	3.15		103	9,2
192	CHANNADHAM	3.15	2.7	10,3	
493	CC HEAD	9.15	2	10.3	
494	3 R8	3.15	2.2	10.3	9.5
195 ;		3.15	2.3	10.3	<u> </u>
196	P \$ HEAD	3.15	2.5	10.3	9.4
197	JIVANDESAR	3.15	2.1	10.3	<u> </u>
198	69 LNP	3.15	2.3	10.3	9.1
199		<u> </u>	2.9	10.3	
500	BINJHUAYLA	3.15	2.5	+ +	9.3
501	GHAMURWALI	3.15	2.19	10.3	9.3
502	SAWANTSAR	3.15	2,1		9.2
03	MANJHUWASS	3.15	2.3	10.3	9 <u>.4</u>
204	SKPR	5	<u></u>	10.3	9
			++-1	10.3	9.3

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Signature: Name: M. L. Beude Benclar (Project Modal Offiger) VNL, JU (Authorized Representative)

	29 GB	5	3.8	10.3	9.3
<u>50</u> -			4.11	10.3	9.1
49	SRI VIJAYNAGAR		4.17	10.3	
48	SILWANI	3.15	2.5	10.3	<u>9.2</u> 9
47	RAGRUNATHPURA	3.15	2.15	10.3	<u>9.2</u>
46 7	GOVINDSAR	3.15	2.35	10.3	<u> </u>
45		3.15		10.3	9.3
544	BHOJUSAR	3.25	2.4	$+\frac{10.3}{10.3}$	_9
43		3.15	2.22		9.4
42	BACHHRAR	3.15		10.3	9.2
541	DEEDWANA	3.15	2.58	20.3	9.3
540	RAJIASAR	3.15	2.38	+ 10.3	9.3
539	_			10.9	9.1
538	19.600 RDR	3.15	2.62	10,3	9
537	2 GPN	3.15	2.6	20,3	9.5
536	BIRMANA	3.15	2.7	10.3	9.4
535		3.15	2.67	10.3	9.4
534 +		3.15		10.3	9.5
533	THETHAR	3.15	2.5	10,3	9
532	KALUSAR	5	3.98	10.3	9,2
531	SOMASAR	5	4.42	10.3	9.1
530	STADIUM GROUND GSS	<u> </u>	3.33	10,3	9
529		5	4.6	10.3	9
528 I	PHED GSS		4.52	10.3	9.5
527	RIICO 635		4.67	10,3	9.3
525		5	4.34	10.3	9.1
525	BOOPAL ROAD GSS	5	4.49	10_9	9.Z
524	GURUSAR MODIA	9.15	2,46	10,3	9
522 523		3.15	2.54	10.3	9,4
522		3.15	2.45	10.3	9.1
521		3,15	2.03	10.3	9.5
\$20	54ROARPURA BIXA	3,15	2.63	10.3	9.4
519	PAUWALA	3,15	2.57	10.3	9.4
518	0085	3.15	2.7	10.3	9_5
517	CCBF	3.25	2	10.3	9
 516	JORAWAR	3.15	2.28	10,3	9.2
515	SANGRANA BALARAJPURA	3.15	1.9	10.3	9,1
513			4.6	10.3	, <u> </u>
513	GAUS!NGHPUR	5	3.5	10.3	9
512	<u></u>	3.15	2.7	10.3	9,5
511	<u>42</u>	3.15	2.7	10.3	9.3
510	4800	3.15	2.9	10.3	9,1
509		3.15	2.95	10.3	9.4
508	5266	3.15	2.75	10,3	9
S07	390	3.15	2.8	10.3	9.4
306	3911	3.15	2.9	10.3	9.2

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Signature:______ Name: M. 应用elida I... Benda (Project NodaFO情報表)AiVVNL, JU (Authorized Representative)

552	44 <u>G8</u>	3.15	4.3	10.3	9.8
553		3.15	2.3	10.3	9.4
554	PURANA BIJLI BOARD	5	4.1	10.3	9
\$55	2 DAM	5	4.45	10.3	9.2
536		3.15	2.13	10.3	9.1
	ANOOPGARH	! 5	4.43	10.3	9.5
558		3.15	2.5	10.5	9.4
559	RIICO	5	4.34	10.5	9
560		3.15	2.65	10.5	9.2
<u>5</u> 51	PREM NAGAR	5	4.45	10.5	9.1
562	75GB	3.15	2.5	10.7	9.3
563	SANDA EOLONY	3.15	2,6	10.7	9.5
564	<u>10A</u>	3.15	2.65	10.7	. 9
565	27A	3.15 j	2.45	10.7	9
566		3.1,5	2.5	10.7	9.1
567	61GB	3.15	2.5	10.9	9.2
568 j	RAMSINGHPUR	3.15	2,5	10.5	9
569	NHARAWALI	3.15	2,58	10.9	9.5
570		3.15	2.5	20.5	9.4
571	RAWLA MANDI	3.15	2.45	10.5	9,4
572	3 KD	3.15	2.45	10.5	<u>9.</u> 4 9.5
573	7 KND	3.15	2.03	10.5	9.5
574	365 HCD	3.15	2.46	10.5	9.1
<u>5</u> 75 j		3.15	2,4	10.5	9.3
576	NEW MANDI GHARSANA	3.15	2.6	10.5	
577	OLD MANDI GHARSANA	3.15	2.0	<u>10.5</u>	93
578	6 DD	3.15	2.15	10.5	9.2
575	PATRODA	3.15	2.45	10,5	- <u>9.4</u>
580	281 HEAD	3.15	2.35	10.5 j	<u>9</u>
581	JALWAU	3.15	1.98		9.4
582	ROJARY	3.15	2.95	10.5	9.3
583	4 STR	3.15	2.82	10.5	9.3
584	CHAWA	3.15	2.72	10.5	9.2
585	KAWAS	3.15	2.83	10.2	9,4
586	··_	3.15	2.45	10.4	9
587	BATADOO	- <u>3.15</u>	2.95	9.8	<u>9.3</u>
588 1		3.15		9.8	9.5
589	BHIMADA		2.5	9.8	9
590	KHANJI KA TALLA		2.45	9.5	<u> </u>
591 +		3.15	2.75	10.5	9,1
592	JETANIYON KI DHANI	3.15		20.1	9.2
593		3.15	2.5	10.1	
394	BHADAKHA	5	2.45	10.2	9.5
595	HADWA HADVECHA	5	2.3	10.2	9.4
596		3.15	2.5		9,4
. <u></u>	5AJITARA	- 5	2.7	10.2	9.5
598		5	2.67	10.2	9
<u> </u>	BRIYAND	3.15	2.34	1 9.8	9,1

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Signature: Name: M. G Benda L. Benda (Project Nods Officer DovvnL, JU (Authorized Representative)

509_		3.15	2.45	1 00	1
600		3.15		9.8	9.3
601	CHOCHRA	3.15	2.89	10.2	9.3
502	DHEER JI KI DHANI	3.25	2.45	10.2	9.2
503		3,15	2.65	9.8	9.4
604	KANASAR	3.15	2.7		9
605			3.9		9.6
606	MOKHAB	<u>5</u>	4.45	10.1	9
607	PRAHLADPURA	5	4.6	10,1	9.1
608	ASOTRA	3.15	2.8 <u>1</u>	10.3	9.3
609		3.15	2.85	10,3	9.4
610	BITHUJA	3.15	2.88	10.1	9
611	BRAHMAJI KA MANDIR	3.15	2.54	10.1	9.2
612	BUDIWARA	3,15	2,7	10.4	9.1
		3.15	2.45	10.4	9.3
513	JAGSA	3,15	2.56	10.2	9.5
614	·	9.15	2.45	10.2	9
615	JASOL	3.15	2.68	10.7	- <u>-</u>
616	_ _	3.15	2.7	10.7	9.1
517	KANANA	i 3.15	2.86	10.3	9,2
618		3.15	2.92	10.4	, 9 , 9
619	PADROD-FANTA	3.15	3	10.4	, <u>, , , , , , , , , , , , , , , , , , </u>
620	PADROU-FANTA	3.15	<u> </u>		
621	SARANA	3.15	2.98	<u> </u>	9.4
622	KALYANPUR	3.15	2.77	10.3	9.4
623	NAGANA	3.15	2.51	10.4	9.5
624		3.15	2.56	- 10.2 .	9
625	PACHPADRA	3.15		10.2	9.1
626	PATODI	$-\frac{-3.15}{-3.15}$ +	2.67	9,8	9.3
627	THOMBLI			10.4	9.3
628	KANOD	3.15	2,71	10.5	9.2
629			2.59	10.3	9,4
630	RATEU	3.15	2.98_	10.4	9
631		3.15	2.16	10.4	9.4
63Z	BHAGWA	3.15	3	10	9.3
633 1		3,15	2.01	10	9,9
634		3.15	2.41	10.2	9.2
_	<u>GUDANAAL</u>	3.15	2.74	10.2	9.4
<u>635</u>	GUNGRUT	5	4.23	10.5	9
636		3.15	2.92	10.5	9,4
637	KATHADI F	3.15	2.45	10.5	<u> </u>
538		3.15	2.67	10.5	9.2
639	KERLI NADI	3.15	2.46	10.2	<u> </u>
640 _	MELI	3.15	2,71	10.2	9.3
641	MOKALSAR	5	4.52	10.1	
642	MUTHAU	3.15	2.89		9.5
643	AJEET	3.15	 Z.91	10.3	9.2
		·	<u>21</u>	1 30.2	9.2
644	KARMAWAS	3.15	2.65	10	9 —

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Date: 30.06.2023

Sienature:

Signature: Name: M.IL. Bentia Benda (Project Kitt4/83(Makr)/VNL, JU (Authorized Representative)

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646	1	1			
547	SAMDARI	3.15	2.75	10.z	9
648		3.15	2.55	10.2	9.1
649		3.15	2.74	10.3	j 9.3
65/0	DHARANA	3.15	2.69	10.4	9.5
651	······································	3.15	2.29	10.4	9.4
652	ΠΑΨΑΥΑ-ΡΑΝΤΑ	3.15	2.26	10.4	9
653	· · · · · · · · · · · · · · · · · · ·	3,15	2.88	10,4	9,2
654	KHANKHI	3.15	2.87	10.2	9.1
655	+ -	3.25	2.56	10.2	9.3
656	XUNDAL	3.15	2.53	10.4	95
_		3.15	2.4	10.4	9,3
657	MITHORA	3.15	2.9	20.5	9.5
658		3.25	2.05	10.5	<u> </u>
659	RELO KI DHANI	3.15	2,77	10	9.4
660		3.15	2.62	10.2	9
561	SINER	3,15	2.67	j 9,78	9.2
662		3.15	2.61	9.78	9.1
653	VAV NAGAR	3.15	2.68	10	9.3
664	ADEL	3.15	2.82	+ 10,2	9.5
665	BHATTA	3.15	2.43	10,1	9,1
66 6	_	3.15	2.79	10.1	9,9
<u>667</u>	CHADON KI DHANI	3.15	2.91	10.3	<u>-</u> 9.5
66B	CHAUDHARIYON KI DHANI	3.15	2.61 -	10.5	9,4
669	OHANWA-FANTA	3,15	2.63	10.5	<u></u>
670	DHUDIA MOTLS	5	4,24	10	9.2
671	TW'K	3.15	2.23	10.4	9.1
672		3.15	2,25	10.4	9.3
673	SARNU-PANJI	3.15	2.83	10,4	
674	OHATALA	3.15	2.86	10.3	9.5
675	BADON-KA-TALA	3.15	2.73	10.3 10.2	9
576	BAMNOR		4.23	10.2	<u> </u>
677	BAMRLA	<u>s</u>	4.62	10.1	9.1
678	BHAG BHERE KI BERL	3.15	2.3	10.5	9.2
679		3.15	2,52	10.3	9
680	BISARNIYA	3.15	2	10.3	9.5
681		3.15		· · · · · · · · · · · · · · · · · · ·	9.4
682	DHUDHU	3.15	2.23	9.9	<u>9.4</u>
683		3.15	2.28	9.9	<u> </u>
684		3,15	<u> </u>	9.8	
685	KITHNORIYA	3.15	2.94	9.8	9.1
GBE	KO.IA	3.15	2.86	10.4	9.3
687		3.15	2.65	10.5	9.3
688	RELO KI BERJ	- <u>3.15</u>		10.5	9.2
689	ROHILA (EAST)	3.15	<u> </u>	9,6	9.4
eat	SACHI KI BERI	3.15		10.2	9
691		3.15	2.81	10.5	9.4
692	SAUAN KI BERI	3.15	2.65	10.2	9.1
		3.15	2.35	10.Z	5.3

Signature:

Page 28 of 130

Name: MEE: Behda, Benda (Project Noda (1353)colorVVNL, JU (Authorized Representative)

693	BORCHARNAN	3.15	2.78	10	1
694		3,15	2.78	9.4	9.5
695	BHEDANA	3.15	2.45	9,4	9
696	GADEVI	3.15	2.83	10.2	<u> </u>
697	LUNWA- CHARNAN	3.15	2.98	10.2	9.1
698	NAGAR	3.15	2.72	10.2	<u>' 9.2</u> 9
699	PANEL KI BERI	3.15	2.98	10.2	9.5
700	RAM JI GOAL		2,89	10.2	- ·
701	SALLU KI BERJ	3.15	2.05	- 9.7	- 9.4
702		3.15	2.13	1D.2	9.4
703	Sindhaswa-ch.	3.15	2.88	10.2	9.5
704		3.15	2.05	10.2	9.1
705	ANDANIYO KI BERI	3.15	<u> </u>	10.2	9.3
706	JALI KHFRA	3.15	2.96	10.2	95
707	MALPURA	3.15	2.68	10.3	9.4
708		3.15	2.23	10.5	9
709	NOXHARA	3.15	2.2	10.5	9.2
710		3.15	2.91	9.5	9.1
711	GANGASARA	3.25	2.9	10.5	9,3 9.5
712	GORA	3.15	2.81	9.8	
713	GULE KI BERI	3.15	2.67	10.5	9
714		3.15	2.78	10.5	
715	SONARI	5	4.5	10.3	<u> </u>
716		; 3.15	2	10.5	<u> </u>
717	BHANWAR	3.15	_	10.5	9.5
718	NISASAR	3.15	2.69	10.5	<u> </u>
719		3.15	2.5	10.1	<u> </u>
720	DHURAWA	3.15	2.52	10.1	9.5
721		3.15	2.78	10.5	
722	FAGALIYA	3.15	2.28	10.5	9.1
723	HARPALIYA	3.13	2,56	10	9.3
724		3.15	2.63	10.5	9.3
725	JANPAUYA	3.15	2.6	9.9	9.2
726	MAN JI KA TALIA	3.15	2.06	9,9	<u> </u>
727	SALARIYA	5	3.89	10.5	<u> </u>
728		3.15	2.94	10.1	- <u>9</u> ,4
729	SARLA	3.15	2.57	10.1	<u>9,4</u>
				1 20-2	

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Signeture: NameEML D/Bend43 err cl a (Project Nodal:Officer) I.I., Jty (Authorized Representative)

Page 29 of 110

As a constituent of NER grid, it is required to operate the power system as per IEGC Code and all equipment as specified by CEA Technical Standards Regulation (2010).

In order to increase the power factor (near to unity) and hence resulting in low losses, efficient system and better voltage profile, introduction of reactive (capacitors) component (kVAR) are the cheapest and simplest means of power compensation. Hence, the objective of the project is to give better power supply with better voltage regulation to the consumers in the Jodhpur DISCOM region. The problem / constraint would be addressed through the project / scheme / activity:

- Introduction of Automatic Switched Capacitor Banks.
- Precise and real time compensation of reactive power.
- Establishment of reliable Reactive Power in System.
- Improvement in line losses.
- Existing infrastructure can accommodate more consumers.
- Less loading of transformers,
- Better utilization of Capacitors.

Training System: The Training System is an offline environment used for training users in the operation of the system. On-site training of equipment to users for operation of equipment's. *Execution and Implementation*

While finalizing technical specifications of the system, care has been taken to realize 100% success and sustainability. Considering 24 x 7, 365 days working of system, system will be procured with 5 Years support scheme is with online monitoring facility, in case of failure of field equipment control station raise alarm. It will be helpful to take corrective action in time. Only authorized users will be permitted to change operating limits and other features of software. Also, one-year warranty for all hardware is ensured and there is a comprehensive AMC with executing agency for 5 years after 1-year warranty excluding communication link for reliable operation of scheme.

2.5 Executing Agency

JDVVNL shall be the executing authority. Presently, JdVVNL owns and operate more than 2335 Power Stations of voltage level 33kv. It may be noted that JdVVNL has introduced SAS/SCADA and substation projects in past. Being the state distribution utility, JdVVNL has had vast experiences in executing dozens of such projects in energy sector under the fund made available by REC/PFC or through other government grants. Further, it is worth mentioning that JdVVNL has a track- record of maintaining the time-schedule for completion of its various projects with its strong engineering and commissioning staff.

2.6 Time line for Implementation of Project /Scheme/Activity

Time line of the Project / Scheme	Activity
Likely Duration of Project (in months)	24 (Twenty-Four) months
Likely Start Date	On accord of Administrative & Financial Approval
Likely Completion Date	June 2026
Date: 30.06.2023 Pag	Signature:

Timeliae of Activities

1 1

	š	T	Year	2023-24	20	2024-2025			2025-2026	26
	ź		Month	QTR3	QTR4 Q1	QTRI QTR2	QTR3	QTR4	QTRI	01.82
		Project Approval						,	,	,
	7	Btd Preparation								
	'n	Bidding Period						↑ − 		
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	6	Project Status Report	·						_	
	-	2 ^{ml} Disbursement		 	<u> </u>			·	_	
]		Project Status Report								
Date:	Date: 30.06.2023	.2023 Page 31 of 119	<i>о</i> л	Stgnature: Name ^E Wr IV Munds B e r. Cl.2 (Project Reference Representative) (Authorized Representative)	1013 C T	da Ju				

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Signature: All Henda en da Namg M. Ju Henda en da (Ruthorized Representative)

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Date: 30.06.2023

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Summary of Detailed Project Report (DPR)

The revised DPR is prepared for installation of reactive power solution on 33/11 kV substations in Jodhpur DISCOM with the ratings as per CEA's Regulations.

Summary of DPR given - Yes Copy of DPR attached - Yes

Implementation Schedule / Milestones

Target for Physical Milestones

Particulars (No. of)	Total	Quarter 1 of 2024-25 & Quarter 4 <u>of 2024-25</u>	Quarter 2&4 of 2024-25	Quarter 2 of 2025-26
MV APFC Panels		Completion of Supply	Brection	Testing & Commissioning j

Target for Financial Milestones

(IIIIn Crores)

Description of Total Amount Required	Quarter I of 2024-25	Quarter 2 of 2024-25	Quarter 4 of 2024-25& Quarter 1 2025-26 out of which 10% through internal sources.	Quarter 1 of 2025-26
Supply and erection of materials and equipment covered under the scheme 216.38		20% of total project cost i.e. 43.28	60 % of total project cost i.e. 129.83 (108.19 from PSDF & 21.64 from internal sources)	10% of total project cost

Financial Implication of the Scheme

1. Summary

SI. No.	Item	Amount (Rs. 216.38 in Crore)
1.	Total Cost Estimate	216.38 Cr.
	Funding Proposed from PSDF	90%
3,15,	External Borrowing	Nil, being 90% funded under PSDF &
L		10% through internal functing.

Signature: Benda Name ŴVNL, JU (Project Nodal Officer) (Authorized Representative)

2. Details:

2.1 Cost Estimate: The detailed cost estimate prepared for implementation of the project is given helow;

With Taxes include TUTAL AMOUNT of F&I and erection 2120001308.04 43879625.14 ടങ്ങിലും ŝ Without Taxes include of F&J Ē And crection 3375355.78 AMOUNT 2956766.12 TOTAL cliarges Ri, P Other Taxes/Duties/Levies Naule MM. Bangle nda BASIC RATE | Any 8 φ. include of F&1 틥 <u>۴</u>, and erection 3375355.78 2956766.12 charges Ê Figures Rs, Signature: h INR / Currency' Currency Quoted ž ź ¢ Quantity Units Ŗ Ş≎I s, 12.65 kV, 1980 kVAr, 3-Phase, 50 C/s 717.000 13.000 COST ESTIMATE FOR 1.98 & 3.96 MVAR 12.65 kV, 3960 kVAr, 3-Phase, 50 C/s Capacitor bank having two variable step of 792 Kvar& two Variable steps of 1188 kVAr. Bank stall be complete with Capachtor units of 396/264 kVAr, Aluminium Wound, Dry type Series reactors a) 0.528 kVAr for 792 kVAr step + 6 Nes. , 5) 0.792 kVAr for 1188 hocsed in Outdoor Type CRCA Panel, Aluminium busbars. Ejjoxy insulators, HT HRC first, Surge Suppressor enclosed Veerum Contactor - 4 Nos. kVAr step - 6 Nos. (2) 11 XV, 3-Phase OIL COOLED Type RVT - J No. (3) 12 kV 3 Phase Indoor type metel (Init - I No.(5) IP 55, Outdoor CRCA cubicle Panel for accontractating Surge Suppressor atc., housed in Ouldour Type CRCA Pariel, eterwith details as follows-(1) 11 kV capacitors, Series Reactor, Vacuum Indoot Type Automatic Control alone with FRP Catopy- i set Item Description A 3.96MVAr Date: 30.06.2023 1.98 MVAT contactor, ø ź ~

(Projerthyada) (Troper July) (Authorized Representative)

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	35400.00 460200.00 460200.00	295000.00 211515000.00	216,38,80,933.18
	INI		
	13.000 Set	717.000 5.62	
step of 792 Xvar& une Vuriable steps of 396 XVAr. Bank shall be complete with Capacitor units of 264/132 XVAr, HIT FRC fuse, Stuge Suppressor cto. With details as follows-(1) 11 KV, Albuninium Wound, Dry type Series reactors (a) 0.528 XVAr for 792 KVA step-6 ros. (b) 0.264 EVAr for 396 KVAr step-3 nos. (2) 11 kV, 3-Phase Indoor OU. COOLED Type RVT-1 nos. (3) 12 kV 3 Phase Indoor type metal enclosed Vacuum Contactor-5 nos. (3) 12 kV 3 Phase Indoor type metal enclosed Vacuum Contactor-5 nos. (3) 12 kV 3 Phase Indoor type step-6 ros. (3) 12 kV 3 Phase Indoor type metal enclosed Vacuum Contactor-5 nos. (4) Indoor Type Automatic Control Unit-1 No. (5) IF 55, outdoor steps for accommodating capacitors, series creattors, vacuum contactor, surge supressor etc., alongwith FRP canopy- 1 No.	Annual Maintenance of 3.96 MVAR Capacitor Bank in all respect including material, installation, crection & FMS :- For 5 years	IVAR spect stion,	Total for Supply

Signature: NameEtAt IABeridaB en da (ProjectNoje(2)figga)/NL_JU (Authorized Representative)

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COST	COST ESTIMATE FOR 1.98 MVAR ONE SET	R 1	98 N	IVA	RON	ESET	 		Page 3 of 8
ī; z	Item Description	Liten Code / Make	Quantity	2] 5 (Currency in DNR / Other Currency	BASIC RATE RATE include of F&I and erection charges In Figures Rs. P	Any Other Taxes/Dutics/Levics	TOTAL AMOUNT Without Taxes include of F&L and erction charges th Rs. P	TOTAL AMOUNT With Taxes include of F&I and erection cluarges
	1 1 4 1 10 2 4 1 1	~ ~		w.		2		<u>6</u>	 ±
N	12.65 kV, 1980 kVAr, 3- Phase, 50 C/s housed in Outdoor Type CRCA Phase, 50 C/s housed in Outdoor Type CRCA Phase, 50 C showed in State Capacitor bunk share of 396 kVAr. Bank shall be complete with Capacitor units of 264/132 KVAr, Aluminium bushars, Epoxy insulators, HT IIRC fure, Surge Suppressor etc. With details as follows-(1) 11 KV, Aluminium bushars, Epoxy insulators, HT IIRC fure, Surge Suppressor etc. With details as follows-(1) 11 KV, Aluminium bushars, Epoxy insulators, RT IIRC fure, Surge Suppressor etc. With details as follows-(1) 11 KV, Aluminium bushars, Epoxy insulators, RT IIRC fure, Surge Suppressor etc. With details as follows-(1) 11 KV, Aluminium bushars, (2) 11 kV, 3-Phase Induor OIL COOLED Type RVT-		000.1	 		1317055.00	237069.94000	00'5202121	1554124.9
Dute: 30.06,2023		Page 36 of 110		 Signature; Name; (Project) (Authori	ignature: Name: M. L. Benda (Project Nodal Officer) (Authorized Representative)	anda Hitcer) esembative)			

Page 4 of & Page 4 of &		-					-
	67024.00	17593,80	108914.00	165884.40	4189.00	20945.00	
	56800.00	14910.00	92300,00	140580.00	3550.00	17750.00	
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	, Ž	No.	set	Mir	ź	No.	Signeture Numer (Pagiect) (Aufter)
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	<u>7</u>	<u>م</u>	4	_ ~	9	-	7age 37 of 110
Indoor type metal enclosed Vacuum Contactor-3 nos. (4) Indoor Type Autumatic Control Unit-1 No. (5) IP 55, outdonr CRCA cubicle partel for accommodating capacitors, series reactors, vacuum contactor, surge supressor etc., alongwith FRP canopy-1 No.	11 kV, 400 Amp, Off Load Isolator with carth switch and mounting structure.	f0 kA, C) <u>ng Arrestor</u>	Control cables, Jugs/thimble, Junction Rox etc.	[1] KV 3 Core AL XLPF. Insulated 3x120 mm sq. Cable	11KV XLPE Cable (3x)20 squmm.) Meat Shriokahle Jointing kit Indoor	[1]KV Xf.PE Cable (3x120 sq.mm.) Host Shrinkable	
	<u>و</u>	4 0	a _	9	7	8	Date: 30,06,2023

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Jointing kit Outdoor								Page 5 bf 8
11 KV VCB/Klosk Switchgear for Capacitor Bank with complete arangement of connection.	osk itor bate %	1.000	ź.	Ĕ.	651780.00	117320.4000	651780.00	769100-40
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Total for AMC	 -	ľ						295000.00
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Signature: Name: Name: Marting Returner (Project Nodel Officer) U. U. (Authonized Representative)

Page 38 of 110

	CUPI ESTIMATE FUR 3.96 MVAR ONE SET	Z Z	3.90	Ň	AR OF	VE SET	r			Page 6 of 8
÷.		Code / Malic /	Quantity		Quoted Currency in LNR / Other Currency	BASIC RATE RATE include of F&I and erection clarges In Figurus Rs. P	Any Other Taxes/Duties/Levies	TOTAL AMOUNT Without Without Taxes include of include of include of taxes include of taxes farges farges far Rs. P	TOTAL AMOUNT With Taxes include of F&I and crethin charges	
		 _m	 -		9	 	- - _			
	A 3.96MVAr					· [2	
	 IZ.65 kV, 3960 kVAr, 3. Phase, 50 C/3 housed in Outdom Type CRCA Panel. Capacifor bank having two variable step of 792 Kvar& two Variable step of 792 Kvar& two Variable step of 792 Kvar& two Variable stens of 1188 kVAr. Bank sitail he complete with Crepacitor units of 396/264 kVAr, Aluantinium busbars, Epoxy insuletors, IIT HRC feue, Surge Suppressor crewith details as follows- for yound, Dry type Scries reactors a) 0.528 kVAr for 792 kVAr step - 6 Nos., b) 0.792 kVAr step - 6 Nos., b) 					1671792.00	300922.56	1671792.00	1972714.56	¬
Date: 30.06.2023	06.2023				Signature: WA	jenda Henda Henda				
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Contactor - 4 Nos. (4) Indoor Type Automatic Control Unit - 1 No.(5) IP 55 , Outrioor CRCA 55 , Outrioor CRCA cubicle Panel fity accontactor, Straettor, Vacuern contactor, Surge Suppressor etc., along with FRP Canopy- 1 set	<pre>11 kV, 400 Aunp, Off Load Isolator with early switch and mounting structure.</pre>	9 kV, 10 kA, Class III Lightning Arrestor	Control cables, Jugs/thimble, Junction Box etc.	/ 3 Core Al, XLPE ed 3x120 mm sq.	11KV XLPE Cable (3x120 sq.mm.) Heat Strinkable Jointing kit Indoor	1
	m	4	s	<u></u>	r-	

Signature: White and a Signature: Mangi M. H. Benda (Project Nodal Officer da (Project Nodal Officer da (Authorized Representative) U

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11KV XLPE Cable	20 sq.mm.) kable Jointing Sor	 KV VCB/Kiosk Switchgear for Capecitor Bank with complete arangement of connection. 	Casting of Civil foundations	Cable trench for laying of power/control cables.	Earthing by Chemical pipe carthing	GI Strip of size-50 x 6 mm for Connection of Earthing with earipment	Total for Supply	Annual Maintenance of 1.98 MVAR Capacifor Bank in all respect including material, repair, erection & FMS	Jul Year (Rs. per unit)	3rd Year (Rs. per unit)	4th Year (Rs. per unit)	50) Year (Rs. per unit)	Tatal in Figures	
80 		<u>6</u>	10	=	<u>5</u>	[1]	14	[] 20 24	10.cr	15.03	15.04	50,61		Date: 30.06.2023

2.2 Cost Estimate

The detailed cost estimate prepared for implementation of the Project is given below.

Rs. 216.38 crore (Say Rupees Two Hundred Sixteen Crores) only

The BOQ of capacitor bank are attached as Annexure I. Also enclosed the list of Present & Proposed Status for capacitor bank of Sub Stations having more than 2.5 MVA Transformer in IdVVNL as per Annexure-II and the present voltage profile and anticipated voltage profile after installing the capacitor bank are attached as Annexure – III.

The costs for installation of 1980 kVAr and 3960 kVAr and their associated equipment are based on the rate of recent LOAs awarded by PVVVNL and approved by PSDF in year 2021.

3.1 FUNDING

3.1.1 Funding Proposed from PSDF as grant

90% funding is being proposed through PSDF for implementation of 730 solution on 33/11 kV substation Jodhpur in the general interest for strengthening the medium voltage network of the state and to automate reactive power and to optimize the performance of the distribution grid of JdVVNL sub stations.

3.1.2 Contribution from Internal Sources

10% funding through internal funding.

3.1.3External Borrowings

No external borrowing is envisaged as the project is planned for 90% funding through PSDF and 10% through internal funding.

Signature:

Name M. M dende en da Project Will Don W.L. JU (Authorized Representative)

Format AS Page 1 of 1

Brief Details of the Project Appraisal by CTU / STU / RPC

<u>ltem</u>	Details to be filled by Applicant Utility
Appraisal By: Date of Submission (CTU/STU/RPC for approval	Submitted on
Name of the Scheme	IMPLEMENTATION OF AUTOMATIC REACTIVE POWER SOLUTIONS AT 33/11kV SUBSTATIONS IN JODHPUR
Details of the Appraisal Report by CTU/STU/RPC	Reference no
 - -	Date: Summary of Proposal Appraised The DPR has been prepared so as to improve & strengthen the operational reliability, enhancement of system, real-time data capturing and better management of volt-var. Technical Observations The system will onable to maintain proper voltage profile automatically at the respective 33/11 kV substation thereby reducing reactive power losses to the maintum and to strengthen the medium voltage network of the state which will in turn banefit the distribution licensec i.e. IdVVN1. Financial Observations The costs for installation of 1980kVAr and 3950 kVAr and their associated equipment are based on the rate of recent LOAs awarded by PVVNL and approved by PSDF in year 2021 The prices have been escalated @42% (Price Variation clause applicable only on capacitor cell but in PVVNL considered same PV escalation factor on complete panels) on in allied equipment and in automatic capacitor puncls due to inflation in taw material cost since the last order placed to the vendor in FY 20-21. The price inflation iu raw material that is Aluminum and Copper since 2020 has been considered. Also, the drastically increased terrain factor has been inculcated for supply and commissioning of equipment's in the state. Compliance of Grid Standards / Codes by the Applicant All the grid standards as per IEGC, 2010 shall be compiled. Limitations / Shorteomings pointed out by CTU/STU/RPC if any Installation process may take considerably time

Date: 30,06,2023

d:L Signature:___

NamEM. MBEndBenda (Project@Abd@Affior(NL, JU (Authorized Representative)

Format AG Page 1 of 1

UNDERTAKING

I, Mr. Pramod Tak son of L.Sh. A.S. Tak resident of Jodbpur and presently working as Managing Director in Jodbpur Vidyut Vitran Nigam Ltd., Jodbpur hereby undertake to comply with the following terms and conditions with regard to funding of the "Installation of Reactive Power Solution on 33/11 kV substation in Jodbpur" with disbursement from PSDF:

- No tariff shall be claimed for the portion of the scheme funded from PSDF.
- Amount of grant shall be refunded in case of transfer/disposal of the facility being created under this proposal to any other scheme for funding.
- Shall specifically montion if for the scheme under the proposal, the grant from any other agency is being taken/proposed to be taken.

The scheme under the proposal has neither been applied for grant from any other agency nor being proposed to any agency.

 The grant shall be refended back to PSDF in case of non-utilization of the grant within one year of release of installment.

Signature:

Date: 30.06.2023

Name: Mals. Bendre n.d.a (Project Noda) Officeral, JU (Authorized Representative)

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<u>Annexure-I</u>

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Signature: Nutruc: M. E.Benda, Benda (Project Modd:@ffice)(), of And (Aufturized Representative)

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Sr. No.	Name of Substations	Transformer Capacity (MVA)	Status of Capacitor Bank
$-\frac{1}{2}$	MATHANIA	5	Not Installed
- 3-	IBMBOID MAGAIN TO THE	5	Not Installed
 	UMMED NAGAR (JOOD)	5	Not Installed
· <u> </u>	- RAMPURATRUCO	5	Not Installed
- <u>-</u>	+	5	Not Installed
$-\tilde{7}$ $-$	RAJASANJ	3.15	Not Installed
	+	3.15	Not Installed
<u> </u>		3.15	Not Installed
10	NEWRA ROAD	3.15	Not Installed
<u> </u>	-	3,15	Not Installed
- <u>11</u>	KIRMARSATYA	5	Not Installed
- <mark>12</mark> -	+	5	Not Installed
13	BIENSER KOOTRI	3.15	Not Installed
	+ _	3.15	Not Installed
15	- JOOD	3.15	Not Installed
<u>16</u> 17	<u> </u>	3.15	Not Installed
	KHARDA	3.15	Not Installed
18	<u>├──</u> <u>──</u> <u>──</u>	3.15	Not installed
$\frac{19}{20}$ —	NEWRA GAON	3.15	Not Installed
_		5	Not installed
2]	GAGADI	3.15	
22		3.15	Not Installed
23	MANDIYAI KALLA	1	Not Installed
24		$\left[-\frac{s}{s}-\frac{s}{s}\right]$	Not Instailed
25		3.15	Not installed
26	BALARWA	3.15	Not Installed
27		3.15	Noi Installed
28	MINIYARD TENWARI	<u> </u>	Not Installed
29			Not installed
30	GHEWARA	3.75	Not Installed
31			Not Installed
	PANCHALA	3.15	Not Installed
30	BADA KOTECHA-D	3.15	Not Installed
		3.15	Not Installed
35		<u> </u>	Not installed
	BADI A BASNI	3.15	Not installed
37			Not Installed
18 1	MANDIYAI KHURD	3.15	Not Installed

Status of Existing Equipment Installed Under Jodhpur DISCOM:

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Date: 30.06.2023

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Not Installed Signature: When the second se

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4		3.15	Not Installed
42 -	GOPASARIYA	3.15	Not Installed
43		3.15	Not Installed
44	BHALASARIYA	3.15	Not Installed
45	— тно н	3.15	Not Installed
46			Not installed
40 <u>-</u> 47	HARLAYA	3.15	Not Installed
48	- OSIAN	3.15	Not installed
<u>**</u> 49	- <u></u>	5	Not Installed
50	CHERAI	3.15	Not Installed
51	SINWARO XI DHANI	3.15	Not Installed
52 —	(STRMANDI)	3.15	Not Installed
53	SOMERI BHAKARI	3,15	Not Installed
21 54	- BHIMSAGAR	3.15	Not Installed
5 5	-+- -	3.15	Not Installed
6 6	- BERDO KA BAS	3.15	Not Installed
7		3.15	Not Installed
8	RAWATBERA	3.15	Not Installed
° <u></u> 9	JAKHRO KI DRANI	3.15	Not Installed
<u>9</u>	BARAKALLA	3.15	Not Installed
	-1	3.15	Not Installed
<u> </u>	DHANARI KALLA	3.15	Not Installed
2		5	Not Installed
3	CHINDARI	3.15	Not Installed
4		3.15	Not Instailed
5	NANDIYA KHURD	3.15	Not Installed
<u>s</u>	- JELAV NADI	3.15	Not Installed
, 		3.15	Not Installed
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	SELVI NADI(RAIKORIYA)	3.15	Not Installed
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	KANKRALA	3.15	Not Installed
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	PADASALA	3.15	Not Installed
	<u>'</u>	3.15	Nor Installed
_	NIMBO KA TALAB	3,15	Not installed
_		3.15	Not Installed

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Signature: Name: M. L. Bonda Project No3al (Project No3al (Project No3al (Miller)) SE (ISS), JOW/NI, JU (Authorized Representative) _

_ •

<u>83</u> 84	- KHEDAPA	3.15	Not Installed
85	+	5	Not Installed
<u></u>	- ANWANA OLD	3.15	Not Installed
87		3.15	Not Installed
<u>87</u>	BIRAJ	3.15	Not Installed
- 89		3.15	Not Installed
	- DANWARA	3,15	Not Instelled
	<u>-!</u>	3.15	Not Installed
<u>-91</u> -	- BAORI	5	Not Installed
		5	Not Installed
	POONIYO KI BASNI	3.15	Not Installed
94	- KAJNAU KHURD	3.15	Not Installed
95		3.15	Not Installed
96	KAINAU KALLA	3.15	
97	<u>-!</u>	3.15	Not Installed
98	ANWANA NEW	3.15	
99		3.15	Not Installed
100	<u> </u>	3,15	Not Installed
	INDROKA	<u> </u>	Not Installed
102	SALAWAS	3.15	Not Installed
103			Not Installed
104			Not Installed
105	DHANDHORA	<u></u>	Not Installed
106		3.15	Not_Installed
107	HEERADESHAR	3.15	Not Installed
108	DHORU	3.15	Not installed
[09]	The week and the second		Not Installed
110	RAJLANI	<u>3,15</u>	Not Installed
11]	DEVARI		Not installed
112	HINGOLI		Not Installed
113	_	· <u> </u>	Not installed
l]4	GAISINGHPURA	3.15	Not Installed
115	RAMPURA	3.15	Not Installed
- 116 -	┌───────────	5	Not Installed
117	ASOP	3,15	Not Installed
118	ARTIYA KALLAN	5	Not Installed
119		3.15	Not Installed
120	BARNI KHURD	3.15	Not Installed
12)	MANGERIYA	5	Not Installed
122		3,15	Not Installed
123	BILARA	5	Not installed
123			Not Installed
125	SOJATI GATE	ii	Nut Installed
126		5	Not Installed
1.6.0	_DIWAN Л KJ PLAO	3.15	

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Signature: Name: M. L. Benda (Project Cistal Officer) (Project Cistal Officer) (Authorized Representative)

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- <u>127</u> 128	<u>+ — — </u>	3.15	Not Installed
129	KHARIYA MITHAPUR	3.15	Not Installed
130	<u> </u>		Not Installed
131	JHAK	3.15	Not Installed
- <u></u> 132	UDALIYAWAS	3.15	Not Installed
133		3.15	Not Installed
134	RANSI GAON	3.15	Not Installed
$-\frac{134}{135}$	— — — <u>- </u>	5	Not Installed
	PIPAR CITY	5	Not Installed
137		5	Not Installed
-137	SATHIN	3.15	Not Instatled
	KHARIYA KHANGAR	3.15	Not Installed
139	PABUNAGAR	3.15	Not Installed
- 140		3.15	Not Installed
	RATORI GAL (BASTWA)	3.15	Not Installed
— <u> </u>	·	3.15	Not Installed
	CHIDWAI	3.15	Not installed
	NATHARAU	3.15	Not installed
145	Kerli — — — —	3.15	Not Installed
140		5	
	RAMSAR	3.15	Not Installed Not Installed
	BHOMSAGAR	3,15	
	CHEELA	3.15	Not Installed
	UNTHWALIYA	<u> </u>	Not Installed
	BABA KI	3,15	Not Installed
	MMBARI(DHEERPURA)	3.[5	Not Installed
	SEKHALA	3.15	Not installed
	MALU KALLA	3.15	Not Instelled
	LHIRJAKHAS	3.25	Nut Installed
	OMESAR	3.15	Not installed
	OINTRA	3.15	Not Installed
	HRJA TIBNA	3.15	Not Installed
	EVRAJGARH	3.15	Not Installed
160 N	OKHDADA BHATIYA	$\frac{1}{3.15}$ +	Nut Installed
	AD KA BERA	5 1	Not Installed
162		3.15	Not Installed
_163	HUTERBERA	3.15	Not Installed
164		3.15	Not Installed
165		3.15	Not Installed
166		3.15	Not Installed
167	RISHAN NAGAR		Not Installed
168 801		3.15	Not Installed
<u>. 69</u>	DMALSAR		Not installed
170 M	ANASAR	3.15	Not Installed
	_	3,15	Not Installed

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(1) 3.112 (10, 10, 10)

Date: 30.06.2023

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Signature: M. L. Benda Name: M. L. Benda (ProjectFittedal/OfficeF) end.) (AuthorSed Repleschlative).^{2,1}

$-\frac{171}{172}$ -	BOONGADI		Not Installed
173	BOONGADI	3.15	Not Instatled
- <u>775</u> 174	- INDO KA BAS	3.15	Not Installed
$-\frac{174}{175}$	_	3.15	Not Installed
176	IGNP PHALOD	3.15	Not Instailed
177	(BAP) R.D.(120	3.15	Not Installed
178	- DURGANI	3.15	Not Installed
179	· +	3.15	Not installed
1/5	- SHEKHASAR	3,15	Not Installed
	- 	3.15	Not Installed
181	ANOP NAAGAR	3.15	Not Installed
- <u>182</u> -		3.15	Not Installed
	RIN SALT	3.15	Not Installed
	JHARASAR KALLA	3.15	Not Installed
185	- -	3.15	Not Installed
186	RAMPURA(RANERI)		
187	JETERI	3,15	Not Installed
188		3.15	Not Installed
189	POONASAR	3.15	Not Installed
<u>190</u>	PALINA	3.15	Not Installed
291	KUSHLAWA	3.25	Not Installed
192	BHOJAKOR	3.15	Not installed
93	MORIYA	<u> </u>	Not Installed
194	DELANA	3.15	Not installed
195	CHAINPURA	3.15	Not Installed
196	SHIVSAR	3.15	Not Installed
197 _	BAORI KALLA	<u></u>	Not_Installed
198	RAYADA	3.15	Not Installed
199		3.15	Not Installed
200	MARJAT		Not Installed
201	JALODA	3.15	Not Installed
202		3.15	Not installed
203			Not Installed
204	MANDLA KHURD	3.15	Not Installed
205		3.15	Not Installed
206	KHARA	$-\frac{3.13}{3.15}$	Not Installed
207	KOLU PABUJI		Not Installed
208		3.15	Not Installed
209	BENGTI KITURD	5	Not Installed
210			Not Installed
2:1	SIHRA	$-\frac{3.13}{5}$	Not Installed
212	MANTNA KANA		Not Installed
213	MANDLA KALLAN	3.15	Not installed
2;4	JEMALA	5	Not installed

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Signature:

Page 74 of 110

Name: M.L. Beada (Project Sedal Offication I. JU (Authorized Representative) •

215		<u>i</u>	Not Installed
210	— { Galia	3.15	Not Installed
_			Not Installed
218	- BARSANADA	3.15	Not Installed
_ 219		3.15	Not installed
220	KAPADISAR	3.15	Not installed
		3.15	Not Installed
222	SADAWATA	3.15	Not Installed
223	GOYALJ ROAD	<u></u>	Not installed
224	_	3.15	Not Installed
225	SIROHI CITY	5	Not Installed
- 226	SINDRATH	3.15	Not Installed
227	JAWAL	<u> </u>	Not Installed
228		3.15	
229	PADIV		Not Installed
230	VARADA	3.15	Not Installed
231	SHEOGANJRIICO		Not Installed
232		3.15	Not Installed
233	POSALIYA	3.15	Not installed
234	— PALARI	3.15	Not Installed
235		3.15	Not Installed
236	ANDOR	3.15	Not Installed
237	JHADOLI VEER		Not Installed
238	KALANDARI	3.15	Not Installed
239		3.15	Not Installed
240	KRISHNAGANJ	3.15	Not Installed
241			Not Installed
242	MER MANDWARA	3.[5	Not Installed
243	TANWARI		Not Installed
244	SWAROOPGANJ		Not Installed
245		3.15	Not installed
246	SIROHI ROAD	3.15	Not Installed
247	PINDWARA CITY	<u>5</u>	Not Installed
248	BANAS	5	Not Installed
249	VEERWADA		Not Installed
250	NADIYA	3.15	Not Installed
251	GANDHI NAGAR	3.15	Not Installed
252	TOCL	<u>_10</u>	Not Installed
253	AMBAJINDAR		Not installed
254	KHARA		Not Installed
255	MANPUR		Not Installed
256	DELDAR		Not Installed
257	KAROLI		Not Installed
258	MOOGTHALA -	3.15	Not Installed
			V Not Installed

Signature:

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Name: M. L. Bendu (Project) Fotal Marier Benda (Authori Sti Répitschief (198), JU

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<u>- 259</u> 260	GIRWAR	<u>3.is</u>	Not Installed
261	MAWAL	3.15	Not installed
262		3.15	Not Installed
263	- MT. ABU	5	Not Installed
264	REODAR		Not Installed
265	BANT	3.15	Not Installed
266		3,15	Not installed
<u></u>	JETHAWADA	3.15	Not Installed
268	- <u> </u>	5	Not Installed
269	MORWADA	3.15	Not Installed
270		3.15	Not Installed
271		3.15	Not Installed
272	MAGRIWADA	3.15	Not installed
273	- GUSAISAR BADA	3.15	Not Installed
274	- 	3.15	Not Installed
275	MANKRASAR	3.15	Not Installed
275		3.15	Not Installed
	BINJASAR IST	3,15	Not installed
277	- BINJASAR 2ND	3.[5	Not Installed
278	-+	3.15	Not Installed
279	- BENISAR	3.15	Not Installed
$-\frac{280}{280}$	+	3.15	Not Installed
$-\frac{281}{282}$	DUSARNA-1	3.15	Not Installed
	·	3.15	Not Installed
$-\frac{283}{284}$	JETASAR — — —	<u>_</u>	Not installed
284		3.15	
- 285 -	THUKRIYASAR-1	3.[5	Not Installed
286	TIIUKRIYASAR-II	3.15	Not Installed
287	JAISAL SAR	3.15	Not Installed
288	GOPALSAR I	3-15	Not Installed
289		3.15	Not Installed
290		3,15	Not Installed
29[<u></u>	3.15	Not Installed
292	DHEERDESAR PURIHITAN	3.15	Not installed
293	LIKHMADESAR-I	5	Not Installed
294		3.15	Not Installed
295	LIKHMADESAR-III	3.15	Not installed
296		3,15	Not Installed
		3.15	Not Installed
298	AADSAR	3.15	Not Installed
299	L	3.15	Not Installed
<u> </u>	UDRASAR	3.15	Not Installed
301	LALASAR	3.15	Not Installed
302	SARNA JOHAD		Not installed

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Signatura

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___ Name: M. L. Bends (Project Kollal Gritcer Sen da (Authorized Wighesen and da

RAMDEVRA SERUNA 1 SERUNA 2 DERAJSAR - I BOGANA ARUNDA INIYALA - I INIYALA - I INIYALA - I ANUMAN NAGAR HADLA ATHUSAR	$ \begin{array}{r} 3.15 \\ 3.15 \\ 5 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5 \\ -5$	Not Installed Not Installed
SERUNA 2 DERAJSAR - I BOGANA ARUNDA INIYALA - I ANUMAN NAGAR HADLA ATHUSAR	<u>5</u> <u>5</u> <u>3.15</u> <u>3.15</u> <u>3.15</u> <u>3.15</u> <u>5</u> <u>3.15</u> <u>5</u> <u>3.15</u> <u>3.15</u> <u>3.15</u> <u>3.15</u> <u>3.15</u>	Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed
DERAJSAR - I BOGANA ARUNDA INIYALA - I ANUMAN NAGAR HADLA ATHUSAR	5 3.15 3.15 3.15 3.15 5 3.15 5 3.15 3.15	Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed
ARUNDA INIYALA - I ANUMAN NAGAR HADLA ATHUSAR	<u> </u>	Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed
ARUNDA INIYALA - I ANUMAN NAGAR HADLA ATHUSAR	3.15 3.15 3.15 5 3.15 5 3.15 3.15 3.15 3	Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed
ARUNDA INIYALA - I ANUMAN NAGAR HADLA ATHUSAR AJSAR	3.15 3.15 5 3.15 5 3.15 3.15 3.15 3.15 3.15	Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed
INIYALA - I ANUMAN NAGAR HADLA ATHUSAR AJSAR	3.15 5 3.15 3.15 3.15 3.15 3.15	Not Installed Not Installed Not Installed Not Installed Not Installed
INIYALA - I ANUMAN NAGAR HADLA ATHUSAR AJSAR	<u> </u>	Not Installed Not Installed Not Installed
ANUMAN NAGAR HADLA ATHUSAR AJSAR	3.15 3.15 0.15 3.15 3.15	Not Installed Not Installed
HADLA	3.15 3.15 3.15	Not Installed
HADLA	3.15	
ATHUSAR	3.15	Not Installed
ajsar		
	2.15	Not Installed
4) P FV / A DTI / A MT		Not Installed
4.1 Ρ Γ Λ Α 211 Α 3 cm -	3.15	Not Installed
ATRIYAPHANTA	3.15	Not Installed
ALASARSATHRI	3.15	Not Installed
TEDKITALAI	5	Not Installed
	3,[\$	Not installed
AINSAR	5	Not Installed
ARELI-I	5	Not Installed
	3.15	Not Installed
NDUSAR	3.15	Nnt Installed
	5	Not Installed
SAR	3.15	Not Installed
		Not Installed
	3.15	Not Installed
	3.15	Not Installed
	3.15	Not installed
	5	Not Installed
JASAR	3.15	
.D)ATAN -11		Not Installed
		Not Installed
APASAR		Not Installed
NSAISAD 1		Not Installed
·		Not Installed
IR ANGENERAD		Not Installed
		Not Installed
PASAR - (J	\top — — —	Not Installed
434EAN 7	┓──┓──	Not Installed
AMISAK -I		Not Installed
		Not installed
AMSAR-II	· · · · · · · · · · · · · · · · · · ·	Not Installed
	3.15	Not installed
	ARELI-II IV MANDIR AGWATI KUND IBASAR DASAR DASAR DASAR DATAN -II IAPASAR NSAISAR-I	SAR 5 ARELI-II 3.15 IV MANDIR 3.15 AGWATI KUND 3.15 IBASAR 5 JASAR 5 JASAR 5 JASAR 3.15 IAPASAR 3.15 IAPASAR 3.15 IAPASAR 3.15 IAPASAR 3.15 IAPASAR 3.15 IAPASAR 3.15 IAPASAR 3.15 IAPASAR 3.15 IAPASAR 5 IAPASAR 3.15 IAPASAR 3.15

Signature Name: M. L. Benda (Project Nodelloff:3cr) i dia (Aufférizer Repfershilling)

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	·	<u>3.15</u>	\\ Not Installed
390	JETPUR	3.15	Not Installed r
389		3.15	Not Installed
	BADBRAN	3.15	Not Installed
387	RD 710	3.15	Not Installed
- <u>385</u> 386	PUGAL	3.15	Not Installed
384	·	3.15	Not Installed
383	2 GADHWALA - II	<u></u> 5	Not Installed
<u>382</u>	+	5	Not Installed
381	I. GADHWALA -]	3.15	Not Installed
380	JAMSAR	3.15	Not Installed
379	RANJEETPURA	3.15	Not Installed
378	I ADM	3.15	Not Installed
377	3 PWM	3.15	Not Installed
376	28 KJD	3.[5	Not Installed
375 _	DANTOR	3,(5	Not installed
374	·	3.15	Not Installed
373	KISHANASAR	3.15	Not Installed
372	SERPLRA	3.15	Not Installed
371	BHELU	5	Not Installed
370	KHINDASAR	5	Not Installed
369	LOHIYA		Not Installed
368	HADDA	3.15	Not Installed
367		5	Not installed
366	RANERI	5	Not Installed
365		3.15	Not Installed
364	ВНАЛЕКА	3,15	Not Installed
363	SWAROOPDESAR	3.15	Not Installed
362	SPECSING/ISAR	5	Not Installed
361	BARSINGHSAR		Not Installed
360	MEGHASAR		Not Installed
359	MEGHACAD		Not Installed
358	JD MEGRA	5	Not Installed
3\$7	' L D MAGARA	3.15	Not Installed Not Installed
356			Not installed
355	RANISAR		Not Installed
354	2. JEIRASAR - []	<u> </u>	Not Installed
353	4. BELASAR	5	<u>+</u>
352	2. TEJRASAR - JII		Not Installed Not Installed
351	- 1. TEJRASAR - I	3.15	Not Installed
350	· · · · · · · · · · · · · · · · · · ·	· 5	Not Installed
349	2. KILCHU		Not Installed
348	I. K.D. JATAN-IV	1 11	Not Installed

Page 78 of 110

Signature Mar. Benda Name: Mar. Benda (Project Ngdal Efficer) WNL JU (Authorized Representative)

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	ARJUNSAR	3.15	Not installed
	LALERA	3.15	Not Installed
	MAHAJAN	3.15	Not installed
<u>394</u>		5	Not Installed
395	AWAHARNAGAR	5	Not Installed
390	A WALEDONA (MK		Not Installed
397		·	Not Installed
398	MAUSAM VIBHAG	8	i Not Installed
		5	Not Installed
	MAHALAXMI ENCLAV		Not installed
	AGRAWAL COLONY	5	Not Installed
402	MLNATHAWALI	<u> </u>	Not Installed
403		3.15	Not installed
404		3.15	Not Installed
405 T	0001		
406	EUCO-I	5	Not Installed
407		<u> </u>	Not Installed
408			Not Installed
409	UICO-)(- <u> </u>	No: Installed
410		<u>_</u>	Not Installed
4:1	HANI MANDIR	<u> </u>	Not Installed
412 S	ABJI MANDI		Not Installed
413			Not Installed
414 K	UNJ VIHAR	3.15	Not Installed
415		<u> </u>	No: Installed
416	CT		Not installed
417 3	PUILI	5	Not Installed
418			Not Installed
419 8	HAGAT SINGH CHOCK	<u></u>	Not Installed
420	_	- 8	Not Installed
421 - K	UMS	5	Not Installed
422		<u> </u>	Not Installed
423 H	OSPITAL		Not Installed
424	· · · · · · · · · · · · · · · · · · ·		Not Installed
425 S.	ADBHAWANA NAGAR	5	Not Installed
	.K. CITY	<u>s</u>	Not Installed
427		5	Not Installed
428 PI	HG		Not Installed
	ALIYAN	5	Not Installed
	HATLADANA	3.15	Not Installed
	ULAPURKERI	3.15	Not Installed
	NDUMALKOT	3.15	Not Installed
	ADHUWALI	3.15	Not Installed
434 7/		3.15	Not Installed
<u></u>	` _	3.15	↓ Not Installed

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Signature: M. L. Benda Name: M. L. Benda (Projec: Notal Officar) Benda (Authorizeit-Réficiented/@jL, JU .

435	BURJAWALI	3.15	Not Installed
436	CHUNAWAD	3.15	
437	152	3.15	Not installed
438	HOMELAND		+ Not Installed
439	RISHI SIDHI		Not Instelled
440		3.15	Not Installed
441	- NETEWALA	3.15	Not Installed
442		i <u>3.15</u>	Not Installed
443	- 7 ML	3.15	Not Installed
444	25 ML	· ·	Not Installed
445	DHINGAWALI	- 3,15	Not Installed
446	JODHEWALA	3.15	Not Installed
447	SADULSAHAR	3.15	Not Installed
448	RIICO		Not Installed
449	14 KRW	<u>5</u>	Not Installed
450	PARTAP PURA	3.15	Not Installed
451	BUDIRWALI	3.15	Not Installed
452	PATAL	3.15	Not Installed
453	MANNIWALI	3.15	Not Installed
454	IPDS KESRISINGHPUR	3.15	Not Installed
455	V HEAD	55	Not Installed
456 -	DHNOOR	3.15	Not Installed
457	··	3.15	Not Installed
458 -	DALPATSINGHPUR	3.15	Not Installed
459	KAMINPURA	3.15	Not Installed
459	ARAYAN	.3.15	Not Installed
461	MALKANA	3.15	Not Installed
_	MERIRWALA	3.15	Not Installed
462	18F	3,15	Not Installed
463		3.15	Not Installed
464 -	DAULATPURA	3.15	Not installed
465	MANFOOLSINGHWALA	_ 5 _	Not installed
466	GANESHGARH	3.15	Not Installed
467	GANESHGARH	3.15	Not Installed
468	LALGARH	3.15	Not Installed
469	LALGARH	1.6	Not Installed
470	PANNIWALI	3.15	Not Installed
47t	BANWALI	3.15	Not Installed
472	MAMMAR	3.15	Not Installed
473	KHARACHAK	3.15	Not Installed
474	<u>5 LNP</u>	3.15	Not Installed
475	SAMEJA	3.15	Not Installed
476	BAJUWALA	3.15	Not Installed
477 -	SATJANDA	3.15	Not Installed
478	DABLA	3.15	1, Not Installed

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Signature: (M. L. Benda Name: M. L. Benda (Project Nodhi Officer) Bondia (Authorized Representative)

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479	MUKLAWA	1 744	
480	1.00NEWALA	3.15	Not Installed
481	i6PS	3.15	Not installed
482	UDSAR	3.15	Not Installed
483	BHOMPURA	3.15	Not Installed
484		3.15	Not Installed
485	RAISINGHNAGAR	8	Not Installed
485 -	BADA MANDIR	3.15	Not Installed
487	RIICO		Not Installed
488	PADAMPUR		Not installed
- <u>489</u>	24 88		Not Installed
490		5	Not installed
491	+ _	3.15	Not Installed
	1 DD	3.15	Not Installed
	CHANNADHAM	3.15	Not Installed
493	CC HBAD	3.15	Not Installed
494	<u>3 RB</u>	3.15	Not Installed
495	PSHEAD	3.15	Not Installed
496		3.15	Not Installed
497	TVAND55AR	3.15	Not Installed
498	69 LNP	3.15	Not Installed
499	BINJHBAYLA	3.15	Not installed
500		3.15	Not Installed
501	GHAMURWALI	3.15	Not Installed
502	SAWANTSAR	3.15	Not Installed
503	MANJHUWASS	3.15	Not Installed
504		<u> </u>	Not Installed
505	SAFA	3,15	Not Installed
506	19H	3.15	Not Installed
507	2FC	3.15	Not installed
508	5266	3.15	Not Installed
509	48GG	3.15	Not Installed
510	427	3.15	Not installed
SU	5°O"	3.15	Not Installed
512			
\$13	GAJSENGHPUR	5	Not Installed
\$14	SANGRANA		
515	BALARAIPURA	3,15	Not Installed
516	JORAWAR		Not Installed
517	CCBF	3.15	Not Installed
518	† -		Not Installed
\$19	PALIWALA	3.15	Not Installed
520	SARDARPURA BIKA	3.15	Not Installed
521	NIRWANA	3.15	Not Installed
522	DHABA	3.15	Not Installed
		3.15	∖ Not Installed

Page 81 of 110

Name: M. L. Benda (Project Nodal Officer) ... Benda (Authorized Representative)

523	GURUSAR MODIA	3.15	Not Installed
524	BDOPAL ROAD GSS		Not installed
525	BDOFAC ROAD (388	<u> </u>	Not Installed
526		<u> </u>	Not Installed
527	RICO GSS	5	Not Installed
528	PHED GSS	$+ - \frac{5}{5}$	Not Installed
529	STADIUM GROUND GSS		Not installed
530		5	
531	SOMASAR	5	Not Installed
532	KALUSAR	3.15	Not Installed
5 33	THETHAR	3.15	Not Installed
534	RAIYAWALI	3.15	Not Installed
535	UDAIPUR	3.15	Not Installed
536	BIRMANA	3.15	Not installed
537	2 GPN	¬	Not Installed
538	19,600 RDR	3.15	Not Installed
539	· · · · · · · · · · · · · · · · · · ·		Not Installed
540	RAJIASAR	3.15	Not Installed
541	DEEDWANA	3.15	Not Installed
542	BACHIIRAR	3.15	Not Installed
543		3.15	Not Installed
544	BHOIUSAR		Not Installed
545		3.15	Not Installed
546	- GOVINDSAR	3,15	Not Installed
547		3.15	Not Installed
548	RAGHUNATHPURA		Not Installed
	SILWANI	3.15	Not Installed
549	SRI VIJAYNAGAR	\$	Not Installed
<u>550</u>	<u> </u>	S	Not installed
55]		5	Not Installed
552	44 GB	3.15	Not Installed
553		3.15	Not Installed
554	PURANA BIJLI BOARD	5	Not Installed
555 _	2 DAM	5	Not Installed
556		3.15	Not Installed
<u>557</u>	ANOOPGARH	ī	Not Installed
558		3.15	Not Installed
559		5	Not Instelled
560	<u> </u>	3.15	Not Installed
561	PREMNAGAR	5	Not Installed
562	76GB	3.15	Not Installed
563	BANDA COLONY	3.15	Not Installed
564		3.15	Not Installed
565 _	27A	3.15	Not Installed
366		3.15	

Page 82 of 110

Signature: <u>Manual</u> Name: M. L. Benda (Project Nodal Office) L. Bencha (Authorized Representative)/VNL, JU

567	6IGB	3.15	Not Installed
568	RAMSINGHPUR	3.15	Not Installed
569	NHARAWALI	3.15	Not Installed
570	BANG A MANTER	3.15	Not Installed
571	RAWLA MANDI	3.15	
572	3 KD	3.15	Not Installed
573	7 KND	3.15	Not histalled
574	365 HED	3.15	Not Installed
575		3,15	Not Installed
576	NEW MANDI GHARSANA	3,15	Not Installed
577	OLD MANDI GHARSANA	3.15	Not Installed
578	6 DD	3.15	Not Installed
579	PATRODA	3.15	Not Installed
580	281 HEAD		Not Installed
	JALWALI	3.15	Not Installed
-	ROJARY	+	Not Installed
	4 STR	3.15	Not Installed
	CHAWA	3.15	Not installed
	KAWAS	3.15	Not Installed
586		3 15	Not installed
587	BATADOO	3.15	Not installed
588		3,15	Not Installed
589	BHIMADA	3.15	Not Installed
- +		3.15	Not fostalled
<u> </u>	KHANЛ KA TALLA	3.15	Not Installed
592	TETANIYON KI DHANI	3.15	Not Installed
593	·	3.15	Not Installed
<u>- 593</u> - 1	BHADAKHA	55	Not Installed
		<u> </u>	Not Instelled
	HADWA HADVECHA	3.15	Not Installed
- 596	SAJITARA	5	Not Installed
		5	Not installed
<u>- 598</u>	BHTYAND	3.15	Not installed
599	<u> </u>	3.15	Not Installed
$-\frac{600}{600}$	CHOCHRA	3.15	1 Not Installed
001		3.15	Not Installed
	DHEER JI KI DHANI	3 15	Not Installed
<u>603</u>	(ANASAR	3.15	Not Installed
604		3.15	Not Installed
$- \frac{605}{100} \downarrow N$	MOKHAB	5	Not Installed
606		<u></u>	Not Installed
·	RAHLADPURA	3.15	Not Installed
	ASOIRA	3.15	Not Installed
	SITITUJA	3.15	Not Installed
610 F	RAHMAJI KA MANDIR	3.15	Not Installed

Page 83 of 110

Name: M. L. Benda (Project Nodal Officer) JdVVNI-, JS (Authorized Representative)

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Signature:

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		3.15	Not Installed
654	KHANKHI	3.15	Not Installed
653	├─── ─── ── ──	3.15	Not Installed
652	ITAWAYA-FANTA	3.15	Not Installed
651		3.15	Not Installed
<u>649</u> 650	DHARANA	3.15	Not Installed
648	SILORE	3.15	Not Installed
647 -		3.15	Not Installed
646	; SAMDARI	3.15	Not Installed
645	RAKHI	3.15	Not Installed
504	KARMAWAS	3.15	Not installed
643	AJEET	3.15	Not Installed
642	MUTHALI	3.15	Not Installed
641	MOKALSAR	5	Not Installed
640	MELI	3.15	Not Installed
619	KERLINADI	3.15	Not Installed
638	·	3.15	Not Installed
_ 637	- KATHADI	3.15	Not Installed
636	INDRANA	3.[5	Not Installed
635	GUNGROT	5	Not lostalled
634	GUDANAAL	3.15	Not Installed
633	DHEERA	3.15	Not Installed
_632		3.15	Not Installed
631	BILAGWA	3.15	Not Installed
630	↓	3.15	Not Installed
629	RATEU	3.15	Not Installed
62.8	KANOD	3.15	Not Installed
627	THOMBLI	3.15	Not Installed
626	PATODI	3.15	Not Installed
625		3.15	Not Installed
624	PACHPADRA	3.15	Not installed
623 -	NAGANA	3.15	Not Installed
67.2	KALYANPUR	3.15	Not installed
62]	SARANA	3.15	Not Installed
620	· · · · · · · · · · · · · · · · · · ·	3.15	Not Installed
_619	PADROO-FANTA	3.15	Not installed
618	KITHNOD	3.15	Not Installed
617	KANANA	3.15	Not Installed
_6[6		3.15	Not Installed
<u> 615 </u>	- JASOL	3.15	Not Installed
614	1300A	3.15	Not Installed
ត13	– JAGSA	3.15	Not Installed
612		3.15	Not installed

Page 84 of 110

Signatore: 0 Name: M. L. Benda (Project Nodal-Officer). Benda (Authorized Representative) NL. JU

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655	- KUNDAL	3.15	Not Installed
656		3.15	Not Installed
637	MITHORA	3.15	Not Installed
658		3.15	Not Installed
659	RELO XJ DHANI	3.15	Not Installed
660	SAILA	3.15	Not Installed
661	- SINER	3.15	Not Instelled
662		3.15	Not Installed
663	VAV NAGAR	3.15	Not Installed
664	ADEL	3.25	Not Installed
665	BHATTA	3.15	Not Installed
666	<u> </u>	3.15	Not installed
667	CHADON KI DHANT	3.15	Not Installed
658	CILAUDHARIYON KI DHANI	3.15	Not Installed
669	DHANWA-FANTA	3.15	Not Installed
670	DHUDIA MOTIS	5	Not Installed
671	J.M.K.	3.15	Not Installed
672	<u> </u>	3.15	Not Installed
673	SARNU-PAN/I	3.15	Not Installed
674	BHATALA	3.15	Not Instailed
675	BADON-KA-TALA	3.15	Not Installed
676	BAMNOR	5	Not Installed
677	HAMELA	-·	Not Installed
678	BHAO BHERE KI BERI	3.15	Not Installed
679	BISARNIYA	3.15	Not Installed
680		3.15	Not Installed
681		3.15	Not Installed
682		3.15	Not Installed
6 83		3.15	j Not Installed
684	Käkar	3.15	Not Installed
685	KITHNORIYA	3,15	Not Installed
686	KOJA	3,15	Not Installed
687	LUKHU	3.15	Not Installed
688	RELOKI BERI	3.15	Not Installed
689	ROIELA (EAST)	3.15	Not Installed
690	SACHI KI BERI	3.15	Not Installed
691	_	3.15	Not Installed
692	- SAUAN KI BERI -	3.15	· ·
693	BORCHARNAN	3.15	Not Installed
694		3.15	Not Installed
695	- BHEDANA	3.15	Not Installed
696	GADEV	3.15 -	Not Installed
697	LUNWA- CHARNAN		Not Installed
698	NAGAR	3.15	Not Installed

Page 85 of 110

Signature: Chiller Name: M. L. Benda (Project Notal Officer Parida (Authorizon Representative)

699	PANEL KI BERI	3,15	Not Installed
700	RAM JI GOAL	3.15	Not Installed
701	SALLU KI BERI	3.15	Not Installed
702	SENDHASWA-CH.	3.15	Not Installed
703		3.15	Not Installed
704	- ANDANIYO KI BERI	3.15	Not Installed
705		3.15	i Not Installed
706	JALI KHERA	3.15	Not Installed
707	MALPURA	3.15	Not Installed
708	- NOKHARA	3.15	Not Installed
709	NORHARA	3.15	Not Installed
710	AKAL	3.15	Not Installed
_71	GANGASARA		Not Installed
712	GORA	3.15	Not Installed
713	GULE KI BERI	3.15	
714	SOBHALA-DARSHAN	3.15	Not Installed
715	SONARI		Not Installed
716		3.15	Not Installed
717	BHANWAR	3.15	Not Installed
718	BISASAR	3.15	Not Installed
7:9	<u> </u>	3.15	Not Installed
720	DHURAWA	3.15	Not Installed
721	· · · · · · · · · · · · · · · · · · ·	3.15	Not Installed
722	FAGALIYA	3.15	Not installed
723	HARPALIYA		Not Installed
724	· ·	3.15	Not Installed
725	JANPALIYA		Not Installed
726	MAN Л KA TALLA	3.15	Not Installed
727	SALARIYA	3.[5	Not Installed
728	· .	÷	Not installed
729	SARLA	3.15	Not Installed
730	SEDWA	3.15	Not Installed
		5	Net Installed

Signature: Name: Mathingpenda (Project Nodal Officer) (Authorized Representative)

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Annexure-III

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			Page 3.	Page 87 of 110		00	Name: N Project N Anthoriza	t Nodal	Name: M. L. Benda (Project Nodal Officer) L. Bonda (Anthonissed Bendles), JdVVNL, JU	Benda Jávvk. Ju	합니						
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BADA KOTECHA-II	1	296		¥ <			2	_ _	85. 1	100.3B	- 5.8	=	-	J0.56	1.4B	Ť
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3,01	378	2.83	2,77	7.U	2.54	2.59	275	15.4	2.7:	215	10.C	2,91	Ω.Σ.	2.91	 g!	53	3 06	2.15	£05	4.75	17	2.96	7.7Z	282	-	+		_ -	 g	Page 89 of 110
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ā.		5	£1;5	202	\$2	5	6.0	322.9	25	85	† ≌	3	8	80	<u>ا</u> ئڈ	3.08	100.98
105	DEMOLIDRA	<u>-</u>	N,	3C.5		¥1 *	. M. J	1.762	2.5	198	M726	ž	38	250	10.82	BOLE	88.7
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			- ALARA	Durw OO of 110			Eloja Eloja	tt NotA	(Other)	(Project Noph Officer) Berry	<u>.</u>						
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	315	2.89	10.7	ļ g:	3.21	0.9	18:9	2	8	101 101	2.4	₽	-	185	138	
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BARNI KHURD	515	2.91	10,2	16	Э.24	69	1.181	4	86.1	1221	5	ğ	'- .i-	20	145	5.44
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	~	PE 1	10.5	3.9	4,85	2 10	Liesz Z	22	5	88	4	 	0.57	11.82	FO.C	89 13
SOLATI GATE	'n	4.56	10.5	6	521	870	286.3	25	8	104.14	8.5 I	151	5635	10.82	.c	26.32
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	3.15	18.2	201	1.0	375	65.0	162.5	1	8	1166	22	1	-	10.39	3.76	1062
KHARIYA MEHARUR	31.E	2.78	זמי	•	1.24	0.36	1321	L.7	1,98	102.8	: 3:2	z	-	10,92	1.99	- B&4J
	~	÷	2.0L	3	5.24	8.0	288	2.7	1.95	104,76	¥7	7.42	60	10.EZ	SE C	66.39
İ	۶I۶	ž	202	•	ភ្នំ	0. 9	2.671	, 41	8	10.62	41	2	-	 	344	93.26
UDALIYAWAS	3.15	569	E 01	์ 1 เม	249	60	164.2		1 .98	94.77	2.7	2	-	10.85	3 14	85.29
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İ	-	4 27	202	æ	÷	30	263.9		198	96	4	6.8	33	12	ă	87.15
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AMHIT NAGAR	3.15	PI-F	26.5	7	343	2	- - - -	꼬	8	110.62	1.E	8	-	6970	+ ⁵⁹ "	25
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Date: 30.06.2023		Page	Page 91 of 110			Signaturet, Name: 1 (Project N (Authoriz	ure: <u>Q(</u> ree: M. L ect Noda borized F	Benda Brite Micel	ignature: (4)	enda Mulu	<u> </u>					
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1 aS	K GRU	<u>v</u>	ľ	20		Ì	0.60		2	***							
		-	20.7		2	1	ş	2	י	36.	:021	1.28	21	-	63.CI	5.72	90.46
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- 149	GUMANPLIRA	3.15	272	10.5	6	ង	62'3	3\$1.2	יי	176	134.61	35	=	-	50.65	3.67	
8	WILTWALIYA	2	4.15	10.2	6	20.5	322	236.4	2.9	96.1	Et. IDL	4	361	6.6	1201	EC:Ę	91.28
121	PARUSAGAR UNTRAUJALIYA	51.2	87		3	×,	0.85	2 IRZ C	<u>-</u>	8	1034	1	4	Ŀ	101	87 4	06.88
ş;	RABA NU NIMBARUTHERPIT	3.15	£0 £	13.6	<u>،</u>	527	60	181.6	2	158	70ľ	† _ + _	₽	-	: 26'0:	25.1	36.3
3	(V	3.15	 ;; 	1 0.6	9.2	545	4 D	31E	5	3¢.c	138.4	٦٢	₽	-	10.96	3,60	98.5
<u>v</u>	KANODIYA PURAHETAN	2.15	2.82	201	.	3.24	-180	EZHI	9	1.98	1025	2.8	บ	-	- - - -	346	- 89,48
ន	BHALO KACLA	31.15	2.86	201	3	Ŗ	0.65	181	ر ا	8	10001	- - - -	51	-	10 89	3.76	318
3	KHIRUAKHAS	3''E	LÛ.Ĺ	501	ĩ	533	6 0	184.7	1.5	621	106.30	7	=	-	10.87	 	69.69
5	CHA3A	21.2	16'2	2,01	- -	325	50	6171	<u>×</u>	8	10.12	fi2	2	-	92 II	341	72.44
158	SOINTIRA	5.5	29	- TD:3	8.9	3.26 j	C 660	1826	51	198	re,4	2.9	=	-	10.67	359	92.03
<u>ភ</u> ិ ;	KERLA TRAA	213	<u>م</u> ح	10.1	2	ÿ	6 3'0	113.5	<u>د</u>		105.22	53	 	-	10.47	3.65	3
5	NEXHERE	21,5	2.8.	ğ.	8,8	316	63.0	1772	2	96 I	100.38	28		_	10,66	3,42	89.34
<u>ء</u> ا		3.15	2.85	10.9	ę	3.24	0.89	2181	<u>.</u>	36.	:02.8	67	=	-		35	-
162	ZAD KA BERA	۳	¥.	1.0.6	<u>1</u> 1	20'9	6.0	2002	1.5	1.91	260.00C	4.6	8.01	96 Q	10.72	-B	92.85
ā	CHEATDRABERA	315	SE 2	10.3	P	32	63°N	175.4	۲	B6'1	65.CDJ	2.8	_	-	30.06	35	904î
ž		3.15	2.76	בנג	ĥ	r.	32	176	'4 '4	1.98	98.56	2.8	=	-	10.55	3.6	87.72
8	CHADI	3.15	2;E	10.4	ê.9	1	* 0	174.3	1.2	30.0	32.66	21	=	-	10:74	Юť	67/68
991		215	2,91	zů:c	n.	3776	- -	160.7	4	36.:	ברומו	29	a	-	97. FI	549	6576
€	CUSEAN NAGAR	3.15	302	11.7	5	2	Û.HS	1%4,1	36	1.59	Im #	Ē	12	! 	10.6	2.13	95.76
₫		, B	3.05	2 2 2 2 2	a	3.47	n,Ri	156.2	9.1	138	110.05	З,I	r:	-	190:	3.96	66.85
Ŕ	UDMALSAR	51.F	278	ЪЩ.	83	3.12	930	1734	<u>.</u>	1.58	1.00	2.8	=	; _	10.75	, Å	8626
2	!	21.E	2.71	P.UI	5 2 2 2 2 2 1	3.05	6 80	169.2	*	1.96	87.39	27	=	-	10,75	8.8	8511
5	MANAEAR	3.15	5	t0.5	6 .9	<u>,</u>	58-0	124.8	9	C.56	\$5.1J	۲ <u>۲</u>	. 1	-	16.01	1.52	£5.8
2		3,15	255	1 1 1	3.9	Ē	ŝ	166.5	51	86. 1	95.54	3.6	н	1	10.89	371	8216
2	ECNORD)	21.5	259	Сŝ.	ŝ	ន្ត	5	[74.7	5	1.59	93.56	2.6	ار الا	_	10.61	1.04	לברצ
5	NDO KA BAS	315	252	202	9.1	3.2	282	. בוונו	1.8	1.58	- 65'201	3.6	5	-	10.55	442	£68
۴		315	2,61	10.2	•	32 2	082	JBL.L	3.[]	1.95	101.55	36	8	† - -	11/65	442	ļ Į
D	Date: 30.06.2023		Page	Page 92 a[110			Signatu re ; Name: (Project) (Authori	thature: 44 Name: M. L _C Bendo Project Nodel (1993)	ignature: 41 Name: M. L <u>cBen49</u> (Project Nodel Offers) (Authorized Represend		− Benda WNL, JU			1 I			

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2		3.15	72.2	JC.A	6'8	2.67	20	1:12 ('≛ ⊢	86.1	89°88	12	5	-	1 17	3.9	95'1 <i>1</i>
ε	(BAP) R.D.1120	ţı,E	10%	2.04	-	저	50	189.2	2	<u>\$</u>	1901 -	-	≘	'- T	10.55	322	35.49
£	IMBGANI	3.15	2.75	10.2	26 6	3.M	980	2.081	<u>-</u>	8	1023	60 17	' 2 	-	10.Gi	185	17 Y
P.		315	2,12	10.2	±	3.22	0.65	135.4	12	1.9Å	10401	2.8	¥	-	1901	4.04	576
69	- SHEKRASAR	3.15	2.75	10.5	6.5	1.24	5370	178.1	2'1	1.98	1/0.B	2.E	<u>۲</u>	\`'	66 CI	4,12	8L.78
≣		3.IS	28	10.5	•	З.З	0.85	281.2	£	85'1	101.61	3.8	5	-	- 1 6.0	4[,1	6582
ā	ANDP ROACIAN	3.15	2.86	10,2	1.9	к°.	681)	135.5	5'1	1.58	102.1	۱ ۴	=	- -	53,05	ן ק	91.43
₹.		3 15	2.65	10.2	•	Z	C.B9	1-181	51	96 F	ទីចោ	28	=	- _	8.01	25.5	178
2	ITVS ND	21.Ć	2,59	1013	<u>"</u>	321	S.F			1.9K	11.79	62	2	-	10.65	360	<u>لا</u>
æ,	A LIAN BASATAID	3'IS	27	10.2	6.6	114	986	11.9	3	! ₹	17.65	23	ž	-	j0.6	3.RJ	\$58
≊		3.15	762	10.2	52	bot	034	\$ 24.3	2	8	32/96	 	2	-	10.5%	3.76	2.2
ŝ	(razeX)sunges.	Ŀ,	4.65		Ψ	5	เริ่ม	236.)	21	85 t	1021	47	1.8	80	30.62	8	<u>8</u> .
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Ŕ	VBEAD	3,E	2.6	EOL	5.5	а 7	6.0	151.9	. E.I	8	91.71	چ چ	9	<u> </u>	10.61	ja P	82.54
5	ROOMED	3.15	6:T	20.5	9'6	2.11	60	:18'Z	5	3 <u>6</u> 1	\$2,02	6.1	□	-	5.0	1.22	5
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3	iar	21.E	2	251	5	81	6.9	747	970	8	42-13	12	<u> </u>	-	10.46	' ≞	381
2	KÓN:	50.0	2.Ê	EGI	9.2	3.11	¢:0	174.4	ŧ:	356	56.36	28	 ₽	_	10,64	325	68 SB
¥		315	7: 1	6.41	5	EEZ	5	130 B		56 1	24.07	2.1	g	-	10.55	3 46	66.07
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467	OANESIJGARH	- 31.E -	5,26	FOI	9.4	80	68.0	78.1	C.6	22	112	17	=	 -	10.46	 ß 	76.60
â	GANESHOARH	3.15	ا ہت ا	ECI	9.3	25	0.63	163.6	14	1.58	- 8.69	36	ដ	-	:070	325	र, म
16J	LALGARH	515	5,4	E.U.S	E.C	27	0.8%	1913	1.1	1	85.61	24	=	-	1961	257	76,19
Ş.	PANNUWALI	3.15	น	_ دەر	9.2	2:44	0.9	÷	=	86:1	1 ° 2°	22	=		J0.57	122	48,63
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Ľ	RHARACTAK	7	202	JC.3	9.5	23	1.52	178.7	117	66.1	72.87	n	 <u>-</u>	-	72CI	2.63	6413
474	4.SLS	315	23	50.3	0	235	0.9	tet.	1	191	5.15 L.12	ŝ	1 ⊒		10.5k	3.8	60 12 12
475	SAMEIA	SIS	<u>4</u> 12	C.UT	1.6	2,49	0.9	139,5		361	60.62	2.2	 	-	10.57	262	51.13
8 76	BAUCWALA	3,15	2.71	Ð	;;	301	6 .0	151.6	- -	ž	232	2.7	2	i -	10.63		85.75
ţ	SATEANDA	FI'E	222	10.0	E.2	2	0 :9	151	1. 1	3 46	16'8E	2.5	 	-	90	2.95	80.62
Ę	DADLA	51	2.65	<u> </u>	9.5	2	\$	162.8	Ē	1.9 <u>1</u>	22	26	=	- -	10.62	. 18 . 19 . 19	82.98
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ŝ	LOONEWALA	315	- 6FJ	ECT	91	8	5	5	0.7	158	52.69	L.5	ğ	-	10:43	5	97.42
8 2 2	SJU	ЯГ.Е	r.12	Ę	۰	ষ	23	88	- 3	1 96	35.52		9:	-	¥	EJ	35.26
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ş	ANDERA	SI.E	Ŧ	20.2	۴.	1:56	<u>ຼ</u>	872	٥,	ङ	\$ ⊡\$ ≠	14	£	- _	10.47	1 197	A.C
ą į	BULSINGHNAGAR	*	ц.	5 01	 R	5	- 1	4852	•	1.5 4	108,43	84	2,64	16 0	15"01	201	105.56
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Datk	Date: 30.06.2023		9age Fage	Page 142 of L10	÷		Signature: Name: (Project) (Authori	ure: <u>WIN</u> ne: M. L. Bends ect Nads Offici torized Represe	L Benda Benda I Officia) tepristini	— — — — — — — — — — — — — — — — — — —	ignature: <u>WN</u> Name: M. L. Benda (Project Nodal Office) M. I Bern d.a (Authorized Represention), Jou VII., Ju]

486	BADA MANDIR		4.P	tu.3	E.6	۲.F	60	141	3:	36.1	94.22	E.\$	 #3 [ş	10 62	30.0	5.25
ţ;je	RHCO	5	4.21	10.3	9,5	468	00	362.7	ï	1.98	30%	12	Fa	0.59	10.62	10.C	54.76
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ŝ	י הט	1.15	62	E.OL	9 £	256	- 6.0	143.3	I.I	1.98	6113	2.3	≘	-	1 10.55	260	20.62
54	CHANNADHAM	51 6	27	10.3	n	و 	6.0	168.2	εı	1.58	\$5.24	2.7	P	ŀ	(901	31.6	1 6.7.
2,4	(1953.00	ן זונ י	2	E.01	35	2.22	0.9	124.6	-	1.5B	10.55	1 2 i	2	-	10.54	2.54	68.69
\$	130	3.15	2.2	10.9	9.4	2,44	40	Far	11	361	5'L'	32	9	-	10.57	ก	60.4M
445	D S LTEAD	3.15	- 57	2'OF	3.4	2.58	0.89	244.9	12	96.1	82.04	23	H.	-	10.59	245	71.02
\$		3 15	2.5	tn.3	9 .5	3775	50	1557	12	1.95	EI AE	2.5	ġ.	-	10:6	293	LE &L
ş	ICVANDISAD.	315	[2]	103	ę –	223	0.1	130.8	1	1.98	7407	2.5	9	-	FOI .	246	£9'93
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8		21.1	29	10.1	5.6	322	C.9	100.6	7	1.58	102.29	29	10	l	10.65	ţ.	92.06
8		2.15	25	EOI	56	2.84	0.85	1392	5.1	F.98	6196	21	12	-	10.64	3.26	70.97
р;	GEAMOUNWALI	3.15	512	505	C 6	676	di u	136.4	1.1	1 GR	77,25	22	0	-	10.56	326	ts'a9
3	54 WANTAR	ÈC.É	12	EOI	24	ว	2	\$005	-	96'I	40N4	21	ę	-	רסיצצ	245	66.67
ន្ត	SSAMUHUKAN	3.15	2.3	:03	\$	2 56	ŝ	£EP		1,38	31 (3	2.3	60	-	10.56	263	20 EC
2	SRFR	۰	4.1	E.0.1	E.2	87	60	298A	2	1.95	91.19	L.P.	Þ66	- -	13.62	3.04	82.66
អ្ន		č1.6	2.9	10.9	9,2	325	60	130 V	- 4	186- 	102.29	2.9	01		10.65	9. 9	92CK
- 2 2	Hit	3.15	2.8	10.3	9,¢	3.11	0.5	174.4	L.d	1 67	98.77	2.5	13	۲	, point	3.24	68.89
ģ	250	ן כויב י	2.75	5.01	6	306	0.5	E.:71	EJ	1.91	97	2.8	C	-	10.63	12	E.13
205	- גענני	\$1.6	2.95	10.3	9.¢	328	0.9	7.[8]	1 .	B6;1	101.06	3	5	-	55'01		33.65
65	1300	5:'E	2,9	ta3	9.1	322	60	185.6	I.e	<u>9</u> 61	102.29	2.9	ot	-	10,65	6 C 1	92.05
5	42F	3.15	2.7	103	6.6 .	÷	6.0	153.2	£	86.:	95.24	2.7	2	-	10.Å3	315	45.71
512	3.0'	3,15	2.7	£01	9,5	m	5	163.2	ŝ	36.:	5 2.24	2.7	9	-	10,63	3.15	<u>85.7</u> C
513	GATENICLETIE	-	ئار ا	EN I	σ	3.89	2	218	2	1.9B	11.18	51	2		1357	764	ĸ
5 3		5	46	F.01	σ	113	6:1	2'YEZ	2'2	1.96	152 231	d,7	781	0.58	10.62	, 1 0.0	14.24
514	SAMERANA	2.15	9.1	EOI	9.1	2.11	e 0	11&1	9 9	. 361	61.02	Ę.I	đ	:	. Esot	2.22	60.32
515	EALARATRURA	3.15	2.73	10,9	~* 6	2,53	2	ср С	=	1 <u>6</u> .1	80.42	2.1	9	٦	:0.57	2.67	72, 3K
516	JORAWAR	21.5	2	EOL	D	ផ្ត	θţ	124.6	-	16 1	70.55 N.55		10 1	-	25 '01	36.5	6770
D	Date: 30.06.2023		Page	01 103 of 103	-		Signature: Name: (Project) (Authori	ture: UN une: M. ject Nod thorized	guature: UM Name: M. L. Benda Project Nodal Office) Authorized Represen	(): M.I. Intited), ,	iguature: <u>UN</u> Name: M. L. Benda (Project Nodal Office); M. L. Bendu (Authorized Representatiezed), JdVVNL, JU	2.2					

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55	CCDU	3.:5	27	501	2[- -	6.0	145.2	5	1.96	95.24	27	₽	ŀ	10.51	2	12,28
218	541 Rhad A	315	257	10.9	9d	2,49	6870	161.9	1	1 96	1916	9'6	-	-	10,453	<u>m</u>	5718
ŝ		3.15	2.63	E'UE	9.4	296	355	:65.6	٤I	. 94.1	18.120	2.5	17	-	19701	1.25	8149
۲,	SARDARFIRA RIKA	3,15	2.03	£.04	\$12	2.26	0.9	1264	-	8 5'	5'IT	7	9	-	12.61	2.4	61.44
5	NERWANA.	3.15	2.46	201	1.2	273	5	3621	21	1.59	86.77	21	9	-	10.6	1,13	Ĩ
ä	DHABA	31.E	2.54	10.3	9'E	2.62	- 6 .0	1582	1.2	! J5H	R9.59	25	9	- _	.5°D:	50	E0403
521	GURUSAR MODIA	3.15	2.46	נסני	6	EC 2	10	153.2	12	1 96	P4.77	2	Þ	-	901	2.88	1.85
54		5	4.49	Ê.ÛL	32	4.59	<u>0</u> .9	279.7	22	5 (J	92.96	1.6	621	0.96	1162	35.6	32 [0
525		ء ا	4.34	10.3	10	1 82	60	270.3	2.1	1 671	77%	۲Þ	883	8	10.62	S.	87.94
526	- aaskusta	e.	1.67	E.GT	E6 .	τŗ,	980	1.625	24	851	ion.pd	49	¢¢.7	350	20-OL 9	303	41.12
22		5	4.52	tn.3	9.5	5,NR	0.79	284.7	2.3	158	10120	47		50	20/01	30.5	22.52
526	PECED OSS	5	4.5	103	6	£1,2	0.89	289.7	2.4	_ 35: _	105.37	4.B	1,61	550	11.52	305	95.46
55	I STADJUM OROUND GSS	5	523	בנינ	н	3.74	1970 -	7,002	ι.	1 36.1	C8 %.	C.E	=	-	10.57	멹	999
8	L STAULTON	5	4.42	EDI	1.6	16.9	9.0	2.672	21	1.93	98.22	4.5	8.49	36:1	1 CU 01	976	(a'(n
201		\$	3.98	E.01	رو	442	60	6,742	15	1.98	88.44	*	-		19/01	-	9'6L
26	XALUSAT	21.LS	2.5	E:Q:	Δ	278	0 .6	1357	12		81.88	25	S	-	!₄ ≝	167	2E.97
EEX	THETHAR	3.15	244	E.01	9.5	נקב	0'U	251	L.2	96.1	86.04	24	! \$	-	10.59	2,25	31,46
534	INVAVALI	J.15	2.67	10,3	3.4	53	6:0	1553	t.I	36.:	B1 16	27	2	-	2901	3.12	84.76
335	10)4)PLIE.	₹I.E	2.7	10.2	9,8	~	80	1612	ŗ	1.98	92,26	2.7	2	_	10.53	3 ld	1231 18231
535	BICMANA	3.15	2.6	٤٥t	9.5	872	2	161.9	11	16 ^{.1}	17.19	2.6	ta	-	19'01	1010	15234 10234
2E2	ZUPN	3.15	2,02	Ð	a	162	e.	2,621	51	1 .9	91.42	36	1	-	10:62	10.E	21/28
53 B	19 600 RDR	3.5	25	10.	9.1	87.5	ð	155.7	ŭ	<u>R</u>	38,7 t	35	9	-	14r¢	2.03	72,57
ŝ	LADASAZ	;; ; ;	238	ğ	1.2	ž	\$	148.2		8	\$5.95	2	2	-	1959	2.78	75,55
ŝ		3.15	35E	5C,3	3	287	5	1.091	ច	36.1	ופוה		٩	-	10.61	202	81.9
3	DEEDWANA	3.13	26	۳. ۲.	3	267	8	2631	<u>۲</u>	1.98	B1.66	5.6	61	-	10.59	2.61	
8	BACKORAG	3.15	12	20.3	P G	2.07	8	138.1	-	34.:	74,31	2,3	0	-	10,57	3.5	70 et
	THORE	5 Fi	24	5.DL	5	757	5	149,5	2	1.36	54.65	24	Ð	-	\$7.0 -	2.61	76.10
ž		2.IS	17	5.01	- 	শ্ব	ŝ	£.C+c	Ξ	<u>87</u>	81.13	57	9	-	10.58	2.69	ц Ц
512	CAPVININGAR	31.5	53	£01	8.5	32	ŝ	19.5	Ŧ	1:30	כנ'ונ	23	9	-	10.5K	269	73.02
99 		. ا.د ا	2.15		1 .6	3.61	60	146.4	Ē	1 48	82,49	2.4	9 0	-	10.58	275	74,6
547	RACHUMATIPURA	3,15	2.15	10.1	9.2	Ę,	3	133.9	-	158	75,34	2,2	8	-	30.30	2.33	5 7 75
¥	Date: 30.06.2023		Page Bage	Pass 104 of 210	_		Stignature: Name: (Project) (Authori	guature; <u>Wi</u> Name: M. I Project Nod	al Office	5 M.L.	k When Denda M. L. Benda Nodal Official M. L. Benda Det Remeasing (88), JdWNL, JU						
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Signeture: Name: M.L. Benda (Project Nobial Officer, Benda (Authorized Representative)NL. JU

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Page 110 of 110

Date: 30.06.2023

	Name of the Section/Divi	sion in CEA, New Del	hi: NRPC, New Delhi	
S.No	Objective Head	Estimated Budget	Expenditure Done	Balance
		2023-24	till 03.08.2023	
1	Salary	19500000	5516609	13983391
2	Rewards	120000	0	120000
3	Medical Treatment	500000	114694	385306
4	Allowances	13500000	3928333	9571667
5	LTC	850000	146004	703996
6	Training Expenses	100000	0	100000
7	DTE	1000000	161013	838987
8	OE	8800000	4862406	3937594
9	RENT&TAXES	380000	0	380000
10	Digital Equipments	500000	24445	475555
11	Minor civil & Electrical	23300000	0	23300000
	Works			
12	Repair & Maintenance	2500000	33350	2466650
13	OTHER REVENUE	500000	15633	484367
	EXPENDITURE [49]			
14	Machinery & Equipment	2600000	0	2600000
15	Information ICT	1500000	64093	1435907
	Equipments			
16	Furniture & Fixtures	1200000	0	1200000
17	Rent for others	650000	0	650000

Total	77500000	14866580	62633420
Balance till 4th August			
2023			26188938.6
			41055519
Additional amount Require	ed		36444481



Government of India विद्युत मंत्रालय Ministry of Power उत्तर क्षेत्रीय विद्युत समिति Northern Regional Power Committee

संख्या: NRPC/SER/ 301 /2022/ 2032-2034

Dated: 23.02.2022

To,

Joint Secretary (OM), Ministry of Power, Room No-408, 4th Floor, Shram Shakti Bhawan, Rafi Marg, New Delhi

- विषय: Regarding long outstanding overdues of J&K State Power Development Corporation Ltd (JK PDCL) and Power Development Department (JKPDD)
- References: NRPC letters to Secretary (Power) PDD, dated 07.02.2022, 29.12.2021, 26.07.2021, 11.09.2020, 28.01.2020, 31.10.2019 & 16.09.2019. NRPC letters addressed to MD, J&K State Power Development Corporation Ltd., dated 28.01.2020, 31.10.2019, 08.03.2019, 25.10.2018, 16.10.2018, 30.08.2017, 20.10.2015, 28.04.2015, 10.03.2015 & 30.12.2014.

Sir,

In accordance to the MoP communication to CEA vide letter no. A-60016/59/2005 Adm-I dated 23rd February 2006 (copy enclosed) which stipulates that

"The activities of the Regional Power Committees (RPCs) will be fully financed by the constituent Members with effect from 01.04.2006 and Central Electricity Authority will take immediate steps in this regard."

NRPC constituent members are to pay annual contribution as decided in NRPC meetings from time to-time, for reimbursing NRPC expenditure to GoI and meeting the expenditure for meetings at Secretariat and other expenditure as approved by Chairperson.

However, contribution from some members i.e J&K State Power Development. Corporation Ltd (JK PDCL) and Power Development Department (JKPDD) is pending from a long time. NRPC is constantly following up with the officials of JKPDD & JKPDC through above referred letters. Details of pending outstanding contribution fees is shown below:

SI. No.	Name of the constituent	Period (FY)	Outstanding amount (RS)	Late payment penalty amount (Rs)	Total outstanding amount (Rs)
1	JKPCL / JKPDD	2021-22	10,00,000/-	10,000/-	10,10,000/-
		2019-20	10,00,000/-	-	10,00,000/-
Total	outstanding amount				20,10,000/-
2.	JKPCL / JKPDC	2018-19	10,00,000/-	-	10.00,000/-
		2015-16	11,00,000/-		11,00,000/-
		2014-15	11,00,000/-		11,00,000/-
Total	outstanding amount	Awardon alla web		ntrii	32,00,000/-
and the second states	nd total				52,10,000

This is for you kind information and kind assistance in the subject matter.

070 HSIA (नरेश अंडारी) 23/02/22 . सदस्य सचिव

Encl: As above

Copy to:

1. Managing Director, JKPCL, SLDC Building, 1st Floor Gladni Grid Station, Narval Bala, Jammu-180004

 Chief Engineer, JKPCL, SLDC Building, 1st Floor Gladni Grid Station, Narval Bala, Jammu-180004

18-ए, शहीक जीत जिल्ल मार्ग कटकारिया गराय, नई दिल्ली – 110016 कोम.011-26511211 ई-मेल. ms-arpc@nic.in वेवशाईट: <u>www.arpc.gov.in</u> 18-A, Shahaed Jeet Singh Marg, Katwaria Sarai, New Delhi-110016 Phone: 011-26511211 e- mail: ms-arpc@nic.in Website: <u>www.arpc.gov.in</u> Shrum Shakti Bhawan, Rafi Marg, New Delhi-110001 Telephone No. 23715502, FAX NO. 23717519 Date: February 23, 2006.

the Chairperson Central Electricity Authority, sewa Bhawan, R.K.Putram, vew Delhi. (Attention: Shri Ajit Singh, Under Secretary)

Subject: Establishment of Regional Power Committees under the provisions of the Electricity Act, 2003 - matter regarding.

SIL

considered by the Ministry in consultation with the Central Electricity Authority and the Internal Boards, the matter relating to administrative and financial set up of the RPCs has been I am directed to refer to your letter No. 1/2/2005-PP (CEA), dated 13.07.2005 on the subject mentioned above and to say that consequent on setting up of Regional Power Committees (RPCs) under the aegis of the Electricity Act,2003 in place of the erstwhile Regional Electricity Finance Wing of the Ministry.

- contained in the Delegation of Financial Power Rules, 1978 and such other Rules and Orders General Financial Rules, 1963, subject to the observance of instructions and restrictions Supplementary Rules. They shall exercise all the powers of Heads of Department under 2.1 The President is pleased to declare the Member Secretaries of the Regional Power Committees (RPCs) as 'Head of Department' under SR 2(10) of the Fundamental & issued by the Central Government from time to time applicable to 'Head of Departments'
- decided that, henceforth, the functioning of the RPCs shall be regulated as per the following Further, with the approval of the Competent Authority in the Ministry of Power, it has been arrangement 10
- (a) Member Secretaries of the Regional Power Committees (RPCs) will be under the administrative and financial control of the Chairman of the respective Regional Power Committee (RPCs) for all matters including sanction of leave, tour etc. of the Member Secretary.

The Annual committees (RPCs) shall be initiated by the respective Chairman of the Power Committees (RPCs) shall be initiated by the respective Chairman of the The Annual confidential Report of the Member Secretaries of the Regional Regional Power Committee (RPCs) and shall be reviewed by the Chairperan Central Electricity Authority. (9)

9

- financed by the constituent Members with effect from 01.04.2006 and the The activities of the Regional Power Committees (RPCs) will be fully central Electricity Authority will take immediate steps in this regard. (0)
- The manpower for the Secretariat of the Regional Power Committees (RPCs) shall continue to be provided by the Central Electricity Authority, (p)
- This issues with the concurrence of the Internal Finance Wing vide their diary No. 7657/JSFA06. dated 16.02.2006. ÷

Under Secretary to the Government of India Tel No. 2371-9637 Yours faithfully. (R.C.Arora) Sd/2

Copy to:

- Member Secretary of All Regional Power Committees 11
 - Controller of Accounts, Ministry of Power,
 - Secremes, CEA/US(Vig), CEA 15
- Director (R & R)/US(Trans), Ministry of Power. t vi
- Finance Budget V & S Desk, Ministry of Power,

Under Secretary to the Government of India Tel No. 2371-9637 (R.C.Arora) Sdie



Government of India विद्युत मंत्रालय Ministry of Power उत्तर क्षेत्रीय विद्युत समिति Northern Regional Power Committee

संख्या: NRPC/SER/ 301 /2022/

Dated: 15.03.2022

To,

The Principal Secretary, Power Development Department, J&K, Civil Secretariat, Jammu- 180001

- विषय: Regarding long outstanding overdues of J&K State Power Development Corporation Ltd (JK PDCL) and Power Development Department (JKPDD)
- References: NRPC letters to Secretary (Power) PDD, dated 07.02.2022, 29.12.2021, 26.07.2021, 11.09.2020, 28.01.2020, 31.10.2019 & 16.09.2019. NRPC letters addressed to MD, J&K State Power Development Corporation Ltd., dated 28.01.2020, 31.10.2019, 08.03.2019, 25.10.2018, 16.10.2018, 30.08.2017, 20.10.2015, 28.04.2015, 10.03.2015 & 30.12.2014.

Sir,

In accordance to the MoP communication to CEA vide letter no. A-60016/59/2005 Adm-I dated 23rd February 2006 (copy enclosed) which stipulates that

"The activities of the Regional Power Committees (RPCs) will be fully financed by the constituent Members with effect from 01.04.2006 and Central Electricity Authority will take immediate steps in this regard,"

NRPC constituent members are to pay annual contribution as decided in NRPC meetings from time to-time, for reimbursing NRPC expenditure to Gol and meeting the expenditure for meetings at Secretariat and other expenditure as approved by Chairperson.

However, contribution from some members i.e J&K State Power Development Corporation Ltd (JK PDCL) and Power Development Department (JKPDD) is pending from a long time. NRPC is constantly following up with the officials of JKPDD & JKPDC through above referred letters. Details of pending outstanding contribution fees is shown below:

18-17, नहीं र बीज सिंह मार्ग कटकारिया मराय, नई किली – 110016 फोल 011-26511211 ई-सेल. ma-nrpc@nic.in केक्साईट. www.nrpc.gov.in 18-A. Shaheed Jeet Singh Marg, Katwarta Sarai, New Delhi-110016 Phone: 011-26511211 e- mail: ma-nrpc@nic.in Website: www.nrpc.gov.in

Pg 1/2

SI. No.	Name of the constituent	Period (FY)	Outstanding amount (RS)	Late payment penalty amount (Rs)	Total outstanding amount (Rs)
1	JKPCL / JKPDD	2021-22	10,00,000/-	10,000/-	10,10,000/-
	A CONTRACTOR OF A	2019-20	10,00,000/-	-	10,00,000/-
Total	outstanding amount				20,10,000/-
2.	JKPCL/JKPDC	2018-19	10.00.000/-	-	10,00,000/-
		2015-16	11,00,000/-	-	11.00.000/-
		2014-15	11,00,000/-	-	11,00,000/-
Total	outstanding amount				32,00,000/-
Gran	d total			Sector Sector	52,10,000/-

In view of the above, you are requested to kindly intervene in the subject matter and advise the concerned officials of JKPCL to settle the long outstanding contribution amount.

Encl: As above

Copy to:

1. Joint Secretary (OM), MOP, New Delhi

2. Managing Director, JKPCL, SLDC Building, 1st Floor Gladni Grid Station, Narval Bala, Jammu-180004

3. Chief Engineer, JKPCL, SLDC Building, 1st Floor Gladni Grid Station, Narval Bala, Jammu-180004

18-ग, जहीव कीन सिंह वार्ष करवारिया नगव, नई जिल्ली - 110016 फोल 011-26511211 ई-वेल: ms-mpc@nic.in वेवपार्टन: www.mpc.gov.in 18-A. Shaheed Jief Singh Marg. Katwaria Sarai, New Delhi 110016 Phone 011-26511211 e- mail: ms-mpc@nic.in Webste: www.mpc.gov.in

192/2

म. जोडारी (नरेश अंडारी) 15/3/22 सदस्य सचिव

survernment of India Ministry of Power Shram Shakti Bhawan, Rafi Marg, New Delhi-110001 Telephone No. 23715507; FAX NO. 23717519

Date: February 23, 2006

To. The Chairperson Central Electricity Authority, Sewa Bhawan, R.K.Puram, New Delhi.

(Attention: Shri Ajit Singh, Under Secretary)

Subject:

Establishment of Regional Power Committees under the provisions of the Electricity Act, 2003 - matter regarding.

Sir.

I am directed to refer to your letter No. 1/2/2005-PP (CEA), dated 13.07.2005 on the subject mentioned above and to say that consequent on setting up of Regional Power Committees (RPCs) under the aegis of the Electricity Act, 2003 in place of the erstwhile Regional Electricity Boards, the matter relating to administrative and financial set up of the RPCs has been considered by the Ministry in consultation with the Central Electricity Authority and the Internal Finance Wing of the Ministry.

2.1 The President is pleased to declare the Member Secretaries of the Regional Power Committees (RPCs) as 'Head of Department' under SR 2(10) of the Fundamental & Supplementary Rules. They shall exercise all the powers of Heads of Department under General Financial Rules, 1963, subject to the observance of instructions and restrictions contained in the Delegation of Financial Power Rules, 1978 and such other Rules and Orders issued by the Central Government from time to time applicable to 'Head of Departments'.

3. Further, with the approval of the Competent Authority in the Ministry of Power, it has been decided that, henceforth, the functioning of the RPCs shall be regulated as per the following arrangement

> Member Secretaries of the Regional Power Committees (RPCs) will be under the administrative and financial control of the Chairman of the respective (a) Regional Power Committee (RPCs) for all matters including sanction of leave, tour etc. of the Member Secretary.

- -----
- (b) The Annual confidential Report of the Member Secretaries of the Regional Power Committees (RPCs) shall be initiated by the respective Chairman of the Regional Power Committee (RPCs) and shall be reviewed by the Chairperson, Central Electricity Authority.
- (c) The activities of the Regional Power Committees (RPCs) will be fully financed by the constituent Members with effect from 01.04.2006 and the Central Electricity Authority will take immediate steps in this regard.
- (d) The manpower for the Secretariat of the Regional Power Committees (RPC8) shall continue to be provided by the Central Electricity Authority.
- This issues with the concurrence of the Internal Finance Wing vide their diary No. 7657/JSFA06, dated 16.02.2006.

Yours faithfully, Sd/-

(R.C.Arora) Under Secretary to the Government of India Tel No. 2371-9637

Copy to:

- I. Member Secretary of All Regional Power Committees
- 2. Controller of Accounts, Ministry of Power,
- 3. Secretary, CEA/US(Vig), CEA
- 4. Director (R & R)/ US(Trans), Ministry of Power.
- 5. Finance/Budget/ V & S Desk, Ministry of Power,

Sd/-

(R.C.Arora) Under Secretary to the Government of India Tel No. 2371-9637





भारत सरकार Government of India वियुत मंत्रालय Ministry of Power उत्तर क्षेत्रीय विद्युत समिति Northern Regional Power Committee

No. NRPC /AS/NRPC Fund/2021-22/1419-2-0

Date:07.02.2022

To,

Secretary (Power), Power Development Department, Civil Secretariat Srinagar 0194-2506053/2506198

Subject: Pending Contribution towards NRPC fund for the years 2019-20 and 2021-22.

References:

- Reminder-5 Letter no. NRPC/AS/NRPC Fund/2021-22/11926 dated 29.12.2021
- (ii) Reminder-4 Letter no. NRPC/AS/NRPC Fund/2021-22/6940 dated 26.07.2021
- (iii) Reminder-3 Letter no. NRPC/AS/NRPC Fund/2020-21/9010-9012 dated 11.09.2020
- (iv) Reminder-2 Letter no. NRPC/AS/NRPC Fund/2019-20/837 dated 28.01.2020
- (v) Reminder-1 Letter no. NRPC/AS/NRPC Fund/2019-20/13367 dated 31.10.2019
- (vi) Letter no. NRPC/AS/NRPC Fund/2019-20/10396dated 16.09.2019

Sir,

This is in continuation to NRPC's earlier communications as referred above. Copies of the same are also enclosed for ready reference. Despite our regular follow ups, NRPC Fund contribution of Rs. 10 Lakh for the previous year (FY 2019-20) and Rs.10.2 Lakh for current F.Y. 2021-22 is still awaited from PDD.

It was intimated by the reminder letter No. 5, that in case of late payment beyond 31/12/2021, for the FY 2021-22, simple interest @ 1% per month shall also be levied, as per decision taken in 49th NRPC meeting. Accordingly, the penalty amount for late payment beyond 31/12/2021 works out Rs.20,000/- Therefore, due NRPC contribution for FY 2021-22 becomes Rs 10.20 lakh.

Power Development Department is requested to make payments of Rs. 10 Lakh for the previous year (FY 2019-20) and Rs.10.20 Lakh for current F.Y. 2021-22 before 28.02.2022 positively to avoid further levy of penalty charges (for FY 2021-22) as per the decision taken in 49th NRPC meeting. In view of the above, it is again requested to expedite the process for clearance of aforesaid contribution amount. The contribution can be made through Demand Draft, drawn in favour of "NRPC Fund" and may be forwarded to us. The contribution can also be deposited in any CBS branch of Punjab National Bank or through RTGS in the account named "NRPC Fund" (A/c No. 308300 0105096078) under intimation to us. The RTGS / NEFT Code is PUNB0308300

Encl: As above

भियमिन राथ २०२० (दिलप्रीत कौर) (Dilpreet Kaur) नोडल ऑफिसर-एन आर पी सी फण्ड Nodal Officer-NRPC Fund

Copy to: Chairman, NRPC

> 18-ए शहीर जीन सिंह मार्च अटलारिका सराय, नई दिल्ली110016 -स्टेन:011-26511211 ई-सेन: ma-rrpc@nic.inवेयसाईc: www.rrpc.gov.in 18-A, S. Jeet Singh Marg. Katwaria Sarai, New Delhi-110016 Phona: 011-26511211 e- mail: ma-rrpc@nic.in Website: www.nrpc.gov.in





भारत सरकार Government of India विद्युत मंत्रालय Ministry of Power उत्तर क्षेत्रीय विद्युत समिति Northern Regional Power Committee

No. NRPC /AS/NRPC Fund/2021-22/11926

Date:29.12.2021

To,

Sh. Rohit Kansal (IAS) Secretary Power, Power Development Department, Civil Secretariat Srinagar 0194-2506053/2506198

Subject: Pending Contribution towards NRPC fund for the years 2019-20 and 2021-22 – reg.

- References:
- Reminder-4 Letter no. NRPC/AS/NRPC Fund/2021-22/6940 dated 26.07.2021
- Reminder-3 Letter no. NRPC/AS/NRPC Fund/2020-21/9010-9012 dated 11.09.2020
- (iii) Reminder-2 Letter no. NRPC/AS/NRPC Fund/2019-20/837 dated 28.01.2020
- (iv) Reminder-1 Letter no. NRPC/AS/NRPC Fund/2019-20/13367 dated 31.10.2019
- (v) Letter no. NRPC/AS/NRPC Fund/2019-20/10396dated 16.09.2019

Sir,

This is in continuation to NRPC's earlier communications as referred above. Copies of the same are also enclosed for ready reference. Despite our regular follow ups, the contribution amount of Rs. 10 Lakh for the previous year (FY 2019-20) and Rs.10 Lakh for F.Y. 2021-22 from your organisation is still awaited.

In case of late payment beyond 31/12/2021, for the FY 2021-22, simple interest @ 1% per month shell also be levied, as per decision taken in 49th NRPC meeting. Accordingly, Power Development Department is requested to make payments before 31.12.2021 positively.

In view of the above, it is again requested to expedite the process for clearance of aforesaid contribution amount. The contribution can be made through Demand Draft, drawn in favour of "NRPC Fund" and may be forwarded to us. The contribution can also be deposited in any CBS branch of Punjab National Bank or through RTGS in the account named "NRPC Fund" (A/c No. 308300 0105096078) under intimation to us. The RTGS / NEFT Code is PUNB0308300

Encl: As above

र्रिसम्प्र_{29/12/2021} (दिलप्रीत कौर) (Dilpreet Kaur) नोडल ओफिसर-एन आर पी सी फण्ड Nodal Officer-NRPC Fund





भारत सरकार Government of India विद्युत मंत्रालय Ministry of Power उत्तर क्षेत्रीय विद्युत समिति Northern Regional Power Committee

No. NRPC /AS/NRPC Fund/2021-22 6940

Date:26.07.2021

To,

Sh. Rohit Kansal (IAS) Secretary Power, Power Development Department, Civil Secretariat Srinagar 0194-2506053/2506198

Subject: Pending Contribution towards NRPC fund for the years 2019-20 - reg.

References:

- Reminder-3 Letter no. NRPC/AS/NRPC Fund/2020-21/9010-9012 dated 11.09.2020
- (ii) Reminder-2 Letter no. NRPC/AS/NRPC Fund/2019-20/837 dated 28.01.2020
- (ii) Reminder-1 Letter no. NRPC/AS/NRPC Fund/2019-20/13367 dated 31.10.2019
- (iii) Letter no. NRPC/AS/NRPC Fund/2019-20/10396dated 16.09.2019

Sir,

This is in continuation to NRPC's earlier communications as referred above. Copies of the same are also enclosed for ready reference. Despite our regular follow up, the contribution amount of Rs. 10 lakh for the year 2019-20 from your organisation is still awaited.

In view of the above, it is again requested to expedite the process for clearance of aforesaid contribution amount. The contribution can be made through Demand Draft, drawn in favour of "NRPC Fund" and may be forwarded to us. The contribution can also be deposited in any CBS branch of Punjab National Bank or through RTGS in the account named "NRPC Fund" (A/c No. 308300 0105096078) under intimation to us. The RTGS / NEFT Code is PUNB0308300.

Encl: As above

(वन्दिता शर्मा) VANDITA SHARMA

(वन्दिता शर्मा) Nodal Officer (Vandita Sharma)R.P.C., Fund

नोडल ऑफिसर-एन आर पी सी फण्ड Nodal Officer-NRPC Fund



भारत सरकार Government of India विद्युत मंत्रालय Ministry of Power उत्तर क्षेत्रीय विद्युत समिति Northern Regional Power Committee

Dated || 09/2020

REMINDER

IQ.

Sh. Rohit Kansal (IAS) Principal Secretary (Power), New Secretariat Srinagar, Govt. of UT of J&K 0194-2506053/2506198 <md@jkspdcl.com>

No NRPC/AS/NRPC Fund/2020-21 9010 - 9012-

Subject: Pending Contribution towards NRPC fund pertaining to PDD, J&K and J&K PDCL – reg.

- References (i) Reminder letters of even no. dated 17.01.2017. 14.08.2018. 16.10.2018.08.03.2019. 16.09.2019. 31.10.2019 and 28.01.2020 i.r.o. PDD J&K (copies enclosed as Annex-I)
 - (ii) Reminder letters of even no. dated 01.01.2015, 10.03.2015, 29.04.2015, 20.10.2015, 30.08.2017, 16.10.2018, 25.10.2018, 08.03.2019, 16.09.2019, 30.10.2019 and 28.01.2020 i.r.o. J&K PDCL (copies enclosed as Annex-II)

Sir

This is in continuation to NRPC's earlier communications as referred above. Copies of the same are also enclosed for ready reference. Despite our regular follow up, the contribution amount of Rs. 27 lakh for the years 2016-17, 2018-19 and 2019-20 pertaining to PDD and Rs. Rs. 42 lakh for the years 2014-15, 2015-16, 2018-19 and 2019-20 pertaining to PDCL are still awaited. Further, NRPC in its 48th meeting decided a contribution amount of Rs. 6 lakh for each constituent for the year 2020-21. Accordingly, a total pending contribution including current FY for PDD and PDCL are Rs. 33 lakh and Rs. 48 lakh respectively.

Furthermore, in the recently held special meeting on 28.07 2020 to deliberate on tissues related to UTs of J&K and Ladakh, the matter regarding aforesaid pending contribution was also discussed wherein J&K representative assured that all the pending contributions would be disbursed shortly.

Erict As above

(नरेश भंडारी) 11 (PD) 2.02.6 (Naresh Bhandan) मदस्य सचिव Member Secretary

Copy to: Chief Engineer (Trading), JKPCL. PDD Complex Remon Scingson

्राष्ट्र नरेश भण्डारी सदस्य सचिव मारत सरकार विद्युत मंत्राखय उत्तर क्षेत्रीय विद्युत समिति 18-ए. शहीद बीव सिंह मार्ग, कटनारिया महाय, नई विल्ली -110016 दुरनाष, 28611211, 26515265

REMINDER

Dated: 28/01/2020

D.O NO. NRPC/AS/NRPCFUND/2019-20 (83)-

Sh. M. Raju

Please refer to my D.O. letter of even number dated 31st October, 2019 regarding payment of membership fee to the Northern Regional Power Committee (NRPC) by the constituent members of NRPC for the financial years 2019-20, 2018-19 and 2016-17 for meeting the annual expenditure of NRPC establishment.

2. In this regard I would like to mention that previously the amount of annual membership fee to be paid to the NRPC by each constituent member of the NRPC had been fixed as Rs.10 lakh. During the 45th NRPC meeting held recently on 08.06.2019, the amount of the annual membership fees the financial year 2019-20 also was decided to be fixed as Rs.10 Lakh for each constituent. NRPC Secretariat has already requested you vide its letters of even number dated 31.10.2019 for payment of the said contribution amounting to Rs.27 Lakh for the above cited financial years on urgent basis. The matter for payment of the above contribution has also discussed during the last few RPC meetings when Members of the Committee agreed to expedite the said payment. However, in spite of that the contribution from your organization in respect of the above cited financial years is still awaited.

3. Therefore, I shall be grateful if you could kindly intervene and arrange to expedite the amount of the aforesaid contribution amount of Rs.27 Lakh for smooth running of the NRPC Secretariat. The payment could be made either through Demand Draft, drawn in favour of "NRPC Fund" or through RTGS in the Bank account named "NRPC Fund" (A/c No. 3083000105096078 RTGS / NEFT Code: PUNB0308300).

Regards,

Yours Sincerely,

(Naresh Bhandari)

Encl: As Above

To, Sh. M. Raju, Secretary Power, Power Development Department, Civil Secretariat, SRINAGAR (J&K)



भारत सरकार विद्युत संत्रालय उत्तर क्षेत्रीय विद्युत समिति 18-ए, शहीद जीत सिंह मार्ग, कटवारिया सराय, नई दिल्ली -110016 दूरभाष - 26511211, 26513265

D.O NO. NRPC/AS/NRPCFUND/2019-20/13367 Sh. Hivdesh Kuran,

Dated: 31 /10/2019

The matter relates to pending payment of membership fee of the Northern Regional Power Committee (NRPC) for three years i.e. 2019-20. 2018-19 and 2016-17 for meeting the annual expenditure of NRPC establishment. PDD has not paid NRPC membership fee of Rs 17 lakh for the year 2018-19 and 2016-17. During 45th NRPC meeting held on 08.06.2019, the contribution amount was decided as Rs.10 Lakh for 2019-20. Accordingly, PDD is to make payment of Rs 27 lakh – Rs 10 lakh each for 2018-19, 2019-20 and Rs 7 lakh for 2016-17. In this regard, I would like to convey that NRPC Secretariat has communicated with your office, the copies of communication are enclosed.

I seek your kind intervention, for clearance of aforesaid contribution amount, on an early basis. The payment could be made through Demand Draft, drawn in favour of "NRPC Fund". The contribution can also be made through RTGS in the Bank account named "NRPC Fund". (A/c No. 3083000105096078 RTGS / NEFT Code: PUNB0308300).

Will Reyords,

Encl: As above

Yours Sincerely,

(Naresh Bhandari)

To, Sh. Hirdesh Kumar, IAS Secretary Power, Power Development Department, Civil Secretariat, SRINAGAR (J&K)

Phone: 26868681 Fax: 26865206 E-mail: sec-nrpc@nic.in Website: www.nrpc.gov.in



मारत सरकार उत्तर सेत्रीव विद्युत समिति 18-ए, श.जीत सिंह मार्ग, कटवारिया सराय, नई विल्ती- 110016 Government of India Northern Regional Power Committee 18-A, S. Jeet Singh Marg, Katwaria Sarai, New Delhi-110016

No. NRPC /AS/NRPC Fund/2019-20/10396

Date: 16.09.2019

To,

Principal Secretary to Govt., Power Development Department, Civil Secretariat, SRINAGAR-190009 (J&K)

Subject: Contribution towards NRPC Fund for the year 2019-20 by the Constituentsregarding.

Sir.

This has reference to the minutes of 45th meeting of NRPC held on 08.06.2019 at Gangtok, Sikkim wherein members agreed to contribute a sum of Rs. 10.0 Lakh per member as contribution towards annual expenditure of NRPC secretariat for F.Y. 2019-20. Extracts of minutes of 45th meeting of NRPC is enclosed for ready reference.

It is, therefore, requested that the contribution of Rs. 10.0 lakh for the year 2019-20 in the form of Demand Draft in favour of "NRPC Fund" may be forwarded to us urgently. The contribution can also be deposited in any CBS branch of Punjab National Bank or through RTGS in the account named "NRPC Fund" (A/c No. 3083000105096078) under intimation to us. The RTGS / NEFT Code are PUNB0308300.

Encl: As above

Yours faithfully,

Nodal Officer, NRPC



Encl: As above

भारत सरकार विद्युत मंत्रालय उत्तर क्षेत्रीय विद्युत समिति 18-ए, शहीद जीत सिंह मार्ग, कटवारिया सराय, नई दिल्ली -110016 दूरभाष . 26511211, 26513265

D.O NO. NRPC/AS/NRPCFUND/2019-20/13364 Sh Hindesh Kunar,

Dated: 31 /10/2019

The matter relates to pending payment of membership fee of the Northern Regional Power Committee (NRPC) for four years i.e. 2019-20, 2018-19, 2015-16 and 2014-15 for meeting the annual expenditure of NRPC establishment. PDCL has not paid NRPC membership fee of Rs 32 lakh for the year 2018-19, 2015-16 and 2014-15. During 45th NRPC meeting held on 08.06.2019, the contribution amount was decided as Rs.10 Lakh for 2019-20. Accordingly, PDCL is to make payment of Rs 42 lakh – Rs 10 linkh each for 2018-19, 2019-20 and Rs 11 lakh each for 2015-16, 2014-15. In this regard, I would like to convey that NRPC Secretariat has communicated with your office, the copies of communication are enclosed.

I seek your kind intervention, for clearance of aforesaid contribution amount, on an early basis. The payment could be made through Demand Draft, drawn in favour of "NRPC Fund". The contribution can also be made through RTGS in the Bank account named "NRPC Fund" (A/c No. 3083000105096078 RTGS / NEFT Code: PUNB0308300).

Will Regards,

Yours Sincerely.

(Naresh Bhandari)

To, Sh. Hirdesh Kumar, IAS SecretaryPower, J & K State Power Development Corp. Ltd., Shaw Inn, the Boulevard, SRINAGAR-190009 (J&K) नरेश भण्डारी सदस्य सचिव भारत सरकार विद्युत मंत्रालय उत्तर क्षेत्रीय विद्युत समिति 18-ए, शहीद जीत सिंह मार्ग, कटवारिया सराय, मई दिल्ली -110016 दुरभाष . 28511211, 28513265

REMINDER

Dated: 38/01/2020

D.O NO. NRPC/AS/NRPCFUND/2019-20 836

Sh. M Rayin,

Please refer to my D.O. letter of even number dated 31st October, 2019 regarding payment of membership fee to the Northern Regional Power Committee (NRPC) by the constituent members of NRPC for the financial years 2019-20, 2018-19, 2015-16 and 2014-15 for meeting the annual expenditure of NRPC establishment.

2. In this regard I would like to mention that previously the amount of annual membership fee to be paid to the NRPC by each constituent member of the NRPC had been fixed as Rs.10 lakh. During the 45th NRPC meeting held recently on 08.06.2019, the amount of the annual membership fees the financial year 2019-20 also was decided to be fixed as Rs.10 Lakh for each constituent. NRPC Secretariat has already requested you vide its letters of even number dated 31.10.2019 for payment of the said contribution amounting to Rs.42 Lakh for the above cited financial years on urgent basis. The matter for payment of the above contribution has also discussed during the last few RPC meetings when Members of the Committee agreed to expedite the said payment. However, in spite of that the contribution from your organization in respect of the above cited financial years is still awaited.

3. Therefore, I shall be grateful if you could kindly intervene and arrange to expedite the amount of the aforesaid contribution amount of Rs.42 Lakh for smooth running of the NRPC Secretariat. The payment could be made either through Demand Draft, drawn in favour of "NRPC Fund" or through RTGS in the Bank account named "NRPC Fund" (A/c No. 3083000105096078 RTGS / NEFT Code: PUNB0308300).

Regards,

Encl: As Above

Yours Sincerely,

(Naresh Bhandari)

To, Sh. M. Raju, Secretary Power, J & K State Power Development Corp. Ltd., Shaw Inn, the Boulevard, SRINAGAR-190009 (J&K)



Phone: 26866681 Fax: 26865206 E- mail: see-nrpo@nic.in Website: www.nrpc.gov.in

उत्तर क्षेत्रीय विद्युत समिति 18-ए, श.जीत सिंह मार्ग, कटवारिया सराय, नई दिल्ली- 110016 Government of India Northern Regional Power Committee 18-A, S. Jeet Singh Marg, Katwaria Sarai, New Delhi-110016

No. NRPC /AS/NRPC Fund/2018-19 2435

Date: 08.03.2019

To,

Managing Director, J & K State Power Development Corp. Ltd., Shaw Inn, the Boulevard, SRINAGAR-190009 (J&K)

Subject: Contribution towards NRPC Fund for the year 2018-19 by the Constituentsregarding.

Sir,

Please refer to our letter of even number dated 16.10.2018 regarding contribution of Rs. 10.0 Lakh for contribution towards annual expenditure of NRPC Secretariat for financial year 2018-19.

It may be mentioned that during 42nd NRPC meeting of NRPC held on 28.06.2018 at Parwanoo, Solan(HP) wherein members agreed to contribute a sum of Rs. 10.0 Lakh per member as contribution towards annual expenditure of NRPC secretariat for F.Y. 2018-19. The contribution from your organisation is still awaited.

It is, therefore, requested that the contribution of Rs. 10.0 lakh for the year 2018-19 in the form of Demand Draft in favour of "NRPC Fund" may be forwarded to us urgently. The contribution can also be deposited in any CBS branch of Punjab National Bank or through RTGS in the account named "NRPC Fund" (A/c No. 3083000105096078) under intimation to us. The RTGS / NEFT Code are PUNB0308300.

Encl: As above

Yours faithfully,

Assistant Secretary



Phone: 26868681 Fax: 26865206 E- mail: seo-nrpc@nic.in Website: www.nrpc.cov.in

भारत सरकार उत्तर सेत्रीय विद्युत समिति 18-ए, श.जीत सिंह मार्ग, कटवारिया सराय, नई दिल्ली- 110016 Government of India Northern Regional Power Committee 18-A, S. Jeet Singh Marg, Katwaria Sarai, New Delhi-110016

No. NRPC /AS/NRPC Fund/2018-19/ 12/2

Date: 16.10.2018

To,

Managing Director, J & K State Power Development Corp. Ltd., Shaw Inn, the Boulevard, SRINAGAR-190009 (J&K)

Subject: Contribution towards NRPC Fund for the year 2018-19 by the Constituentsregarding.

Sir,

This has reference to the minutes of 42nd meeting of NRPC held on 28.06.2018 at Parwanoo, Solan(HP) wherein members agreed to contribute a sum of Rs. 10.0 Lakh per member as contribution towards annual expenditure of NRPC secretariat for F.Y. 2018-19. Extracts of minutes of 42nd meeting of NRPC is enclosed for ready reference.

It is, therefore, requested that the contribution of Rs. 10.0 lakh for the year 2018-19 in the form of Demand Draft in favour of "NRPC Fund" may be forwarded to us urgently. The contribution can also be deposited in any CBS branch of Punjab National Bank or through RTGS in the account named "NRPC Fund" (A/c No. 3083000105096078) under Intimation to us. The RTGS / NEFT Code are PUNB0308300.

Encl: As above

Yours faithfully,

JAZ RIE

Assistant Secretary

Phone: 26668681 Fax: 26685206 E-mail: nrpccomml@yahoo.com Website: www.nrpc.gov.in

मारत सरकार उत्तर क्षेत्रीय विद्युत समिति 18-ए, श.जीत सिंह मार्ग, कटवारिया सराय, नई दिल्ली- 110016 Government of India Northern Regional Power Committee 18-A, S. Jeet Singh Marg, Katwaria Sarai, New Delhi-110016

No. NRPC /AS/NRPC Fund/2015-16/ 9777-80

Date: 30.08.2017

To,

Managing Director, J & K State Power Development Corp. Ltd., Shaw Inn. The Boulevard, SRINAGAR-190009 (J&K)

Subject: Contribution towards NRPC Fund for the year 2015-16 by the Constituentsregarding.

Sir,

Please refer to our letter of even number dated 27.08.2015, 09 12.2015 & 08.02.2016 regarding contribution of Rs. 11.0 Lakh for contribution towards annual expenditure of NRPC Secretariat for financial year 2015-16

It may be mentioned that during the 35th NRPC meeting held on 09.07.2015 at Shimla, members agreed to contribute Rs. 11.0 Lakh per member as contribution towards annual expenditure of NRPC secretariat for financial year 2015-16. The contribution from your organisation is still awaited.

It is, therefore, requested that the contribution of Rs. 11.0 lakh for the year 2015-16 in the form of Demand Draft in favour of "NRPC Fund" may be forwarded to us urgently. The contribution can also be deposited in any CBS branch of Punjab National Bank or through RTGS in the account named "NRPC Fund" (A/c No. 3083000105096078) under intimation to us. The RTGS / NEFT Code is PUNB0308300.

Yours faithfully,

ONAZALC Assistant Secretary



Phone: 26868681 Fax: 26865206 E-mail: sco-nrpc@nic.in Website: www.nrpc.gov.in

भारत सरकार उत्तर क्षेत्रीय विद्युत समिति

18-ए, श.जीत सिंह मार्ग, कटवारिया सराय,

नई दिल्ली- 110016 Government of India Northern Regional Power Committee 18-A, S. Jeet Singh Marg, Katwarla Sarai, New Delhi-110016

No. NRPC/AS/NRPC Fund/2018-19/ 12316

Date: 25.10.2018

To,

Managing Director, J & K State Power Development Corp. Ltd. Hotel Shaw Inn, The Boulevard, SRINAGAR-190009 (J&K)

Subject: Reimbursement of NRPC establishment expenditure for FY 2014-15 by J & K State Power Development Corporation Limited.

Sir.

In the 30th NRPC meeting held on 28.02.2014 at Agra, members agreed to contribute Rs. 11.0 Lakh per member as contribution towards annual expenditure of NRPC secretariat for financial year 2014-15. Despite repeated requests and regular follow up in various NRPC meetings, the contribution from J & K State Power Development Corp. Ltd. is pending till date.

NRPC establishment expenditure is met against the NRPC allocated budget and the same is reimbursed to consolidated fund of India after collection from the NRPC constituents. There is serious objection from Audit on non recovery of dues from some of the NRPC constituents.

It is, therefore, requested that J & K State Power Development Corp. Ltd. may be directed to make the contribution of Rs. 11.0 lakh for the year 2014-15 in the form of Demand Draft in favour of "NRPC Fund" or deposit in any CBS branch of Punjab National Bank or through RTGS in the account named "NRPC Fund" (A/c No. 3083000105096078) under intimation to us [The RTGS / NEFT Code is PUNB0308300] urgently.

Yours faithfully,

Assistant Secretary

Phone: 26868681 Fax: 26865206 E- mail: nrpccomml@yahoo.com Website: www.nrpc.gov.in

भारत सरकार उत्तर क्षेत्रीय विद्युत समिति 18-ए, श.जीत सिंह मार्ग, कटवारिया सराय, नई दिल्ली- 110016 Government of India Northern Regional Power Committee 18-A, S. Jeet Singh Marg, Katwaria Sarai,

New Delhi-110016

No. NRPC/AS/NRPC Fund/2015-16/ 1093-99

Date: 20.10.2015

To,

Managing Director, J & K State Power Development Corp. Ltd. Hotel Shaw Inn, The Boulevard, SRINAGAR-190009 (J&K)

Subject: Contribution towards NRPC Fund for the year 2014-15 by the Constituentsregarding.

Sir,

Please refer to our letter of even number dated 09.06.2014, 30.12.2014, 10.03.2015 & 28.04.2015 regarding contribution of Rs. 11.0 Lakh for contribution towards annual expenditure of NRPC Secretariat for financial year 2014-15

It may be mentioned that during the 30th NRPC meeting held on 28.02.2014 at Agra, members agreed to contribute Rs. 11.0 Lakh per member as contribution towards annual expenditure of NRPC secretariat for financial year 2014-15. The contribution from your organisation is awaited.

It is, therefore, requested that the contribution of Rs. 11.0 lakh for the year 2014-15 in the form of Demand Draft in favour of "NRPC Fund" may be forwarded to us urgently. The contribution can also be deposited in any CBS branch of Punjab National Bank or through RTGS in the account named "NRPC Fund" (A/c No. 3083000105096078) under intimation to us. The RTGS / NEFT Code is PUNB0308300.

Yours faithfully,

Assistant Secretary

Phone: 25868681 Fax: 26865206 E-mail: nrpccommi@yahoo.com Website: www.nrpc.gov.in

भारत सरकार उत्तर क्षेत्रीय विद्युत समिति 18-ए, श.जीत सिंह मार्ग, कटवारिया सराय, नई विल्ली- 110016 Government of India Northern Regional Power Committee 18-A, S. Jeet Singh Marg, Katwaria Sarai, New Delhi-110016

No. NRPC/AS/NRPC Fund/2015-16/720-31

Date: 28.04.2015

To,

Managing Director, J & K State Power Development Corp. Ltd. Hotel Shaw Inn, The Boulevard, SRINAGAR-190009 (J&K)

Subject: Contribution towards NRPC Fund for the year 2014-15 by the Constituentsregarding.

Sir,

Please refer to our letter of even number dated 09.06.2014, 30.12.2014 & 10.03.2015 regarding contribution of Rs. 11.0 Lakh for contribution towards annual expenditure of NRPC Secretariat for financial year 2014-15

It may be mentioned that during the 30th NRPC meeting held on 28.02.2014 at Agra, members agreed to contribute Rs. 11.0 Lakh per member as contribution towards annual expenditure of NRPC secretariat for financial year 2014-15. The contribution from your organisation is awaited.

It is, therefore, requested that the contribution of Rs. 11.0 lakh for the year 2014-15 in the form of Demand Draft in favour of "NRPC Fund" may be forwarded to us urgently. The contribution can also be deposited in any CBS branch of Punjab National Bank or through RTGS in the account named "NRPC Fund" (A/c No. 3083000105096078) under intimation to us. The RTGS / NEFT Code is PUNB0308300.

Yours faithfully,

Assistant Secretary

Phone: 26868681 Fax: 26865206 E- mail: nrpccommi@yahoo .com Website: www.nrpc.gov.in

भारत सरकार

उत्तर क्षेत्रीय विद्युत समिति 18-ए, श.जीत सिंह मार्ग, कटवारिया सराय, नई दिल्ली- 110016 Government of India Northern Regional Power Committee 18-A, S. Jeet Singh Marg, Katwaria Sarai, New Delhi-110016

No. NRPC /AS/NRPC Fund/2014-15/477-90

Date: 10.03.2015

To,

Managing Director, J & K State Power Development Corp. Ltd. Hotel Shaw Inn, The Boulevard, SRINAGAR-190009 (J&K)

Subject: Contribution towards NRPC Fund for the year 2014-15 by the Constituentsregarding.

Sir,

Please refer to our letter of even number dated 09.06.2014 & 30.12.2014 regarding contribution of Rs. 11.0 Lakh for contribution towards annual expenditure of NRPC Secretariat for financial year 2014-15

It may be mentioned that during the 30th NRPC meeting held on 28.02.2014 at Agra, members agreed to contribute Rs. 11.0 Lakh per member as contribution towards annual expenditure of NRPC secretariat for financial year 2014-15. The contribution from your organisation is awaited.

It is, therefore, requested that the contribution of Rs. 11.0 lakh for the year 2014-15 in the form of Demand Draft in favour of "NRPC Fund" may be forwarded to us urgently. The contribution can also be deposited in any CBS branch of Punjab National Bank or through RTGS in the account named "NRPC Fund" (A/c No. 3083000105096078) under intimation to us. The RTGS / NEFT Code is PUNB0308300.

Yours faithfully.

Assistant Secretary

Phone: 26866681 Fax: 26865205 E-mail: https://www.strps.gov.in

भारत सरकार

उत्तर क्षेत्रीय विद्युत समिति

18-ए, श.जीत सिंह मार्ग, कटवारिया सराय,

गई विल्ली- 110016 Government of India Northern Regional Power Committee 18-A, S. Jeet Singh Marg, Katwaria Sarai, New Delhi-110016

No. NRPC /AS/NRPC Fund/2014-15 01-15

Date: 30.12.2014

To,

Managing Director, J & K State Power Development Corp. Ltd. Hotel Shaw Inn, The Boulevard, SRINAGAR-190009 (J&K)

Subject: Contribution towards NRPC Fund for the year 2014-15 by the Constituentsregarding.

Sir,

Please refer to our letter of even number dated 09.06.2014 regarding contribution of Rs. 11.0 Lakh for contribution towards annual expenditure of NRPC Secretariat for financial year 2014-15

It may be mentioned that during the 30th NRPC meeting held on 28.02.2014 at Agra, members agreed to contribute Rs. 11.0 Lakh per member as contribution towards annual expenditure of NRPC secretariat for financial year 2014-15. The contribution from your organisation is awaited.

It is, therefore, requested that the contribution of Rs. 11.0 lakh for the year 2014-15 in the form of Demand Draft in favour of "NRPC Fund" may be forwarded to us urgently. The contribution can also be deposited in any CBS branch of Punjab National Bank or through RTGS in the account named "NRPC Fund" (A/c No. 3083000105096078) under intimation to us. The RTGS / NEFT Code is PUNB0308300.

Yours faithfully,

Assistant Secretary