

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

सं. उक्षेविस/ वाणिज्यिक/ 209/ आर पी सी (66वीं)/2023/*5 588-5635* सेवा में / To.

दिनाँक: 25.05.2023

उ.क्षे.वि.स. के सभी सदस्य (संलग्न सूचीनुसार) Members of NRPC (As per List)

विषय: उत्तर क्षेत्रीय विद्युत समिति की 66^{वीं} बैठक की कार्यसूची । Subject: Agenda for 66th meeting of Northern Regional Power Committee-reg

महोदय / Sir,

उत्तर क्षेत्रीय विद्युत समिति की 66^{वीं} बैठक दिनांक **30.05.2023 (11:00 AM)** को वीडियो कॉन्फ्रेंसिंग के माध्यम से आयोजित की जाएगी । बैठक की कार्यसूची संलग्न है। कृपया उपस्थिति सुनिश्चित करें । मीटिंग लिंक अलग से साझा किया जाएगा ।

The 66th meeting of Northern Regional Power Committee (NRPC) will be held on **30.05.2023 (11:00 AM)** via video conferencing. Agenda for the same is attached.

It is requested to attend the same. Meeting link shall be shared separately.

भवदीय

Yours faithfully,

(वी. कें. सिंह)

(V. K. Singh)

सदस्य सचिव

Member Secretary

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

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|----------|---|--|---|--|--|
| S. | NRPC Member | Category | Nominated Member | E-mail | |
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| 3 | PGCIL | Central Government owned | Director (Operations) | tyagir@powergrid.in | |
| | . 55.2 | Transmission Company | Ziredia (eparanone) | -1-50 | |
| 4 | NLDC | National Load Despatch Centre | Executive Director | scsaxena@grid-india.in | |
| 5 | NRLDC | Northern Regional Load Despatch | Executive Director | rk.porwal@grid-india.in | |
| 6 | NTPC | | Director (Finance) | jaikumar@ntpc.co.in | |
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| 11 | NPCIL | | Director (Finance) | df@npcil.co.in | |
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| 13 14 | Rajasthan SLDC | | Chief Engineer (SO&C) Chief Engineer (LD) | ce.ld@rvpn.co.in | |
| 15 | Uttar Pradesh SLDC | State Load Despatch Centre | Director | directorsIdc@upsIdc.org | |
| 16 | Uttarakhand SLDC | | Chief Engineer | anupam_singh@ptcul.org | |
| 17 | Punjab SLDC | | Chief Engineer | ce-sldc@punjabsldc.org | |
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| 22 | UPPTCL | State Transmission Utility | Managing Director | md@upptcl.org | |
| 23 24 | PTCUL PSTCL | | Managing Director CMD | md@ptcul.org cmd@pstcl.org | |
| 25 | HPPTCL | | Managing Director | md.tcl@hpmail.in | |
| 26 | IPGCL | | Managing Director | md.ipgpp@nic.in | |
| 27 | HPGCL | | Managing Director | md@hpgcl.org.in | |
| 28 | RRVUNL | State Generating Company | CMD | cmd@rrvun.com | |
| 29 30 | UPRVUNL UJVNL | | Managing Director Managing Director | md@uprvunl.org md@ujvnl.com | |
| 31 | HPPCL | | Managing Director | md@hppcl.in | |
| 32 | PSPCL | State Generating Company & State | CMD | cmd-pspcl@pspcl.in | |
| | | owned Distribution Company | | | |
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| 34 | Jaipur Vidyut Vitran Nigam | | Managing Director | md@jvvnl.org | |
| 25 | Ltd. Madhyanchal Vidyut Vitaran | State owned Distribution Company (alphabetical rotaional | Managina Disastas | | |
| 35 | Nigam Ltd. | basis/nominated by state govt.) | Managing Director | mdmvvnl@gmail.com | |
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| 37 | HPSEB | | Managing Director | md@hpseb.in | |
| 38 | Prayagraj Power Generation | | Head (Commercial & | sanjay.bhargava@tatapower.com | |
| | Co. Ltd. | | Regulatory) | | |
| 39 | Aravali Power Company | | CEO | SRBODANKI@NTPC.CO.IN | |
| 40 | Pvt. Ltd CLP Jhajjar Power Ltd., | | CEO | rajneesh.setia@apraava.com | |
| | Talwandi Sabo Power Ltd. | | | | |
| 41 | Talwandi Sabo Power Ltd. | | COO | Vibhav.Agarwal@vedanta.co.in | |
| 42 | Nabha Power Limited | | CEO | sk.narang@larsentoubro.com | |
| 43 | Lanco Anpara Power Ltd | IPP having more than 1000 MW | President | sudheer.kothapalli@lancogroup.com | |
| 44 | Rosa Power Supply | installed capacity | Station Director | Hirday.tomar@relianceada.com | |
| | Company Ltd | | Claus. Director | | |
| 45 | Lalitpur Power Generation | | Managing Director | vksbankoti@bajajenergy.com | |
| 40 | Company Ltd | | 050 | honersia Outra !- | |
| 46 | MEJA Urja Nigam Ltd. | | CEO | hopmeja@ntpc.co.in | |
| 47 | Adani Power Rajasthan | | COO, Thermal, O&M | jayadeb.nanda@adani.com | |
| 48 | Limited JSW Energy Ltd. (KWHEP) | | Head Regulatory & Power | jyotiprakash.panda@jsw.in | |
| 70 | . , | | Sales | Worth areas when the Darwin | |
| 49 | RENEW POWER | IPP having less than 1000 MW | CEO | sumant@renew.com | |
| | | installed capacity (alphabetical | | | |
| | | rotaional basis) | | | |
| 50 | UT of J&K | From each of the Union Territories in | Chief Engineer, JKPTCL | sojpdd@gmail.com | |
| 51 | UT of Ladakh | the region, a representative | Chief Engineer, LPDD | cepdladakh@gmail.com | |
| 51 | 3. 31 Edddini | nominated by the administration of the | Office Engineer, EF DD | cepaiadaknieginaii.com | |
| 52 | UT of Chandigarh | Union Territory concerned out of the | Executive Engineer, EWEDC | elop2-chd@nic.in | |
| | | entities engaged in generation/ transmission/ distribution of electricity | | | |
| | | in the Union Territory. | | | |
| | D) (D) | , | 055 | | |
| | BYPL | Private Distribution Company in region (alphabetical rotaional basis) | CEO | Amarjeet.Sheoran@relianceada.com | |
| 53 | | | | | |
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| 53 54 | Bikaner Khetri Transmission Limited | Private transmission licensee | Vice-President | nihar.raj@adani.com | |
| | Bikaner Khetri Transmission Limited Adani Enterprises | | Vice-President Head Power | nihar.raj@adani.com anshul.garg@adani.com | |
| 54 | Limited | Private transmission licensee (nominated by cetral govt.) | | | |

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<u>उत्तरी क्षेत्रीय विद्युत समिति की 66 वीं बैठक</u>

66th MEETING OF NORTHERN REGIONAL POWER COMMITTEE

Time & Date of meeting: 30th May 2023

Venue: Video-conferencing

AGENDA

A.1 Approval of MoM of 65th NRPC meeting

A.1.1 Minutes of 65th NRPC meeting (held on 21.04.2023) has been issued vide letter dtd. 18.05.2023. No comments have been received till the date.

Members may kindly approve.

- A.2 Recommendation for PSDF fund for replacement of ACSR Panther conductor in 132KV Sitarganj (PGCIL)- ELDECO Sitarganj single circuit line (22.0 Kms) and 132 KV Sitarganj –Kichha line (31.5Kms) with HTLS conductor (Agenda by PTCUL)
- A.2.1 PTCUL has submitted that there are mainly two sources of power in Kumaon region, one is from 400 kV PGCIL Lines connected to 400 kV S/s Kashipur and the other is 220 kV Pantnagar –Bareilly Line which is connected to 220 kV Pantnagar S/s. PGCIL lines cater approximately 60 % load of Kumaon and partial load of Garhwal region also.
- A.2.2 Due to exponential growth in power demand of Kichha and ELDECO Sitarganj region, the existing line is unable to cater power demand of above region. It is also to be noted that there is no possibility of erecting new line due to non-availability of ROW (Right of Way). Therefore, replacement of ACSR Panther conductor in 132KV Sitarganj (PGCIL)-ELDECO Sitarganj single circuit line (22.0 Kms) and 132 KV Sitarganj –Kichha line (31.5Kms) with HTLS conductor is the only possible option to reduce the over loading of existing line and also to improve the reliability of the evacuation of power to cater the increased load demand in Kichha, ELDECO and nearby area through 132 KV Substation, Kichha and ELDECO. This Line is the only gateway of power from 220kV PGCIL substation Sitarganj thereby it justifies the existence of 220 kV PGCIL S/s and provides stability to the grid by evacuating power from aforementioned PGCIL S/s.
- A.2.3 NLDC-PSDF in its 72nd TESG meeting, held on 18.01.2023 raised input/ observation that "Recommendation of NRPC is required".
- A.2.4 PTCUL presented the same in 64th NRPC meeting (held on 24.03.2023) and accordingly it was decided that study done by PTCUL need to be examined by CEA and CTU.
- A.2.5 Study of PTCUL has been examined by CEA in congruence with CTU and has been found in order vide CEA letter dtd. 09.05.2023 (**Annexure-I**).

A.2.6 PTCUL has requested that the above proposal is eligible for 100 % funding from PSDF and has requested NRPC forum to recommend for PSDF grant.
Members may kindly deliberate.

- A.3 Replacement of existing 220/132kV 100 MVAICT at Sitarganj with Regional Spare 220/132kV 160MVA ICT with provision of the LT Auxiliary supply from the tertiary (agenda by POWERGRID)
- A.3.1 POWERGRID has submitted that as per 47th NRPC Meeting approval, 01 No. 220/132kV, 160MVA ICT at Sitarganj has been commissioned as Regional Spare ICT at Sitarganj Substation of NR-3 (DOCO 05.07.2022) under the project <u>"Provision for Spare ICTs in Northern Region".</u>
- A.3.2 Presently, at 220/132kV Sitarganj Substation, 03 Nos. 100MVA 220/132kV ICTs are commissioned, all of which do not have tertiary winding for the provision of taking auxiliary supply for the systems installed at Sitarganj Substation.
- A.3.3 Further, there are 02 Nos. 11kV UPCL LT Supply Feeder sources available at Sitarganj Substation to cater the requirement of auxiliary supply of Sitarganj substation. Both UPCL LT feeders are not reliable in operation and there are frequent interruptions of the supply (especially during the summer season) due to fault in the 11kV feeders which causes frequent switching of the auxiliary supply at Sitarganj substation. Reliable auxiliary supply is the prime requirement for reliable and secure grid operation. The details of the tripping/switching of the 11kV UPCL LT feeders are as presented below: -

| SI. No. | Month and Year | No. of Tripping/switching of |
|---------|-------------------------|------------------------------|
| | (April 2022-March 2023) | LT Feeder of Sitarganj |
| 1 | April 2022 | 39 |
| 2 | May 2022 | 120 |
| 3 | June 2022 | 194 |
| 4 | July 2022 | 244 |
| 5 | August 2022 | 182 |
| 6 | September 2022 | 97 |
| 7 | October 2022 | 45 |
| 8 | November 2022 | 22 |
| 9 | December 2022 | 34 |
| 10 | January 2023 | 61 |
| 11 | February 2023 | 31 |
| 12 | March 2023 | 27 |

- A.3.4 Therefore, for reliable auxiliary supply at Sitarganj substation, following is proposed by POWERGRID to mitigate the above problem:
 - i. Replacement of existing 01no. 100MVA 220/132kV ICT at Sitarganj with Regional Spare 160MVA 220/132kV ICT (having the provision of the LT Auxiliary Supply from the tertiary) and keeping the replaced 100 MVA220/132 ICT as regional spare.
 - ii. Reimbursement of the cost to be incurred in the replacement of the 100MVA 220/132kV ICT at Sitarganj with Regional Spare ICT along with the cost for the provision of necessary tertiary bay equipment & protection system for using the tertiary winding for station auxiliary power supply. Total erection and commissioning cost towards replacement of ICT and providing tertiary bay equipment will be approx 1.25 Cr excluding Taxes.
 - iii. Required outage for the above replacement may be considered as deemed available in view of the system improvement and reliable grid operation.

A.4 System Protection Scheme (SPS) for BARA TPS (agenda by UPSLDC)

- A.4.1 UPSLDC has submitted that 1500 MVA, 765/400 kV ICT-II has been commissioned on 31.03.2023 at Bara TPS. Following the commissioning of aforementioned ICT, SPS installed at Bara TPS needs to be revised (scheme attached as **Annexure-II**).
- A.4.2 Discussion on revised SPS scheme at Bara TPS was held in 206th & 207th OCC meeting of NRPC and a special meeting held on subject 12.05.2023.
- A.4.3 Scheme is submitted for approval of NRPC forum.
 - Members may kindly deliberate.

A.5 System Protection Scheme (SPS) for Jawaharpur TPS (agenda by UPSLDC)

A.5.1 UPSLDC has submitted that evacuation of power from JawaharpurTPS is to be done through 765kV Jawaharpur-Gr. Noida line, 765kV Jawaharpur-Mainpuri line and 2*1500 MVA ICT at Jawaharpur. At present only 765kV Jawaharpur-Gr. Noida line and 765kV Jawaharpur-Mainpuri line are commissioned. UPSLDC representative also briefed about the logic of SPS at Jawaharpur TPS. Due to availability of Single ICT of I000 MVA at 765kV S/S Mainpuri, power from Jawaharpur TPS cannot be evacuated if 765kV Jawaharpur-Gr. Noida line is not available. Therefore, SPS has been proposed by UPSLDC.

A.5.2 Scheme has been discussed in meeting held on 23.05.2023 (minutes attached as **Annexure-III**). As per decision taken in meeting, approval of NRPC forum is required for proposed SPS.

Members may kindly deliberate.

- A.6 Clarifications on schemes viz. OPGW on 400kV Agra Ballabhgarh & 400kV Kishenpur Wagoora line recommended in the 58th NRPC and approved by NCT (agenda by CTU)
- A.6.1 CTU has submitted that vide MoM of 58th NRPC (held on 30.09.2022), following two no. of schemes were recommended:
 - (a) OPGW Replacement on 400kV Agra Ballabhgarh (Length:181km)
 - (b) OPGW Replacement on 400kV Kishenpur Wagoora line (Length:183km)
- A.6.2 This agenda was initially put up by POWERGRID in the 20th TeST meeting of NRPC. Subsequently the agenda was approved in the TeST meeting and NRPC requested CTU to put the agenda in the upcoming TCC/RPC meeting for review before putting it to NCT for approval. As per this, the agenda was put up in 11th NCT meeting and was approved under RTM mode to POWERGRID.
- A.6.3 However, after information gathered from POWERGRID, it is understood that above two nos. of OPGW links awarded to POWERGRID for replacement were not originally implemented under ISTS schemes but by PowerTel. It is also understood that these links are partially being used in sharing mode for ISTS purpose.
- A.6.4 Accordingly, the above schemes need to be modified as follows.
 - (a) Supply & Installation of OPGW on 400kV Agra Ballabhgarh (Length:181km)
 - (b) Supply & Installation of OPGW on 400kV Kishenpur Wagoora line (Length:183km)
- A.6.5 Further after implementation of the above schemes, the shared usage of the existing PowerTel links for ISTS purpose shall be discontinued and PowerTel usage for the new ISTS OPGW links, if any, shall be governed by CERC norms.
- A.6.6 Accordingly, the above two schemes need to be modified in the NCT after deliberation in the NRPC. Upon recommendation of NRPC on the above, same shall be taken up in the NCT for modification of approval.

Members may kindly deliberate.

A.7 Low voltage related issues in Rajasthan during high wind scenario (during solar hours) (agenda by NRLDC)

- A.7.1 Renewable generation (RE) close to ~12GW has been integrated in Inter-state network of Rajasthan system and ~ 8 GW (Solar: 4.1 GW & Wind: 4.3 GW) is connected at intrastate network of Rajasthan control area. In coming years, RE generation would increase manifold in both ISTS & Intra-state level of Rajasthan in NR. With the existing RE generation being nearly 20 GW in Rajasthan, various operational challenges are being faced during peak RE generation.
- A.7.2 Recently, on 15th May 2023, both Solar (ISTS) and Wind (intra-state) generation were high during solar hours in Rajasthan. Due to high solar & wind generation in this pocket, low voltage were observed at RE pooling stations especially at Intra-state pool stations. Consequently, frequent oscillation (large voltage fluctuation) were observed at all RE pooling & nearby station in Rajasthan from 1000 hrs onwards. Voltage was fluctuating in range of 25-40kV at RE & nearby pooling stations. During the oscillations, bus voltages of RVPN sub-stations near RE pockets were low and fluctuating a lot. High MVAR drawl by RVPN substations such as 400/220kV Kankani, Akal, Ramgarh, Jodhpur, Barmer etc. was observed during this scenario. SCADA & PMU Plots attached at **Annexure-IV**.
- A.7.3 Analysis of above events is being carried out based on PMU data available at NRLDC and performance of RE plants at ISTS is being studied. SLDC, Rajasthan is also requested to study this events and share the report to NRPC/NRLDC along with the mitigation measures to curb such voltage fluctuations/low voltage/high MVAr drawal during peak solar hours.

Members may kindly deliberate.

A.8 PMU Data of RVPN substations (agenda by NRLDC)

- A.8.1 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:
 - "RRVPNL representative stated that PMUs has started reporting at their control centres. However, prior to integration with Rajasthan PDC, cybersecurity audit was to be completed. He further informed that Cyber security audit has been completed and they are in the process of closure of Cyber Security points. On closure of Cyber Security points, they will start the process of integration of PDC. He confirmed that integration work would be completed by 30th April 2023."
- A.8.2 PMU data is very important to analyse transient/dynamic behaviour on fault/switching.

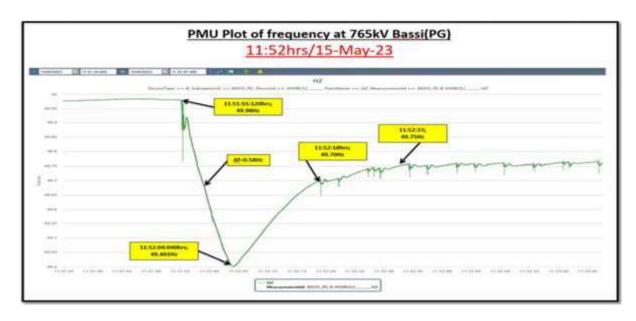
 Moreover, it is also important to analyse the recent oscillations observed in RE complex.

However, data of PMUs installed in RVPN stations is still not reporting to Rajasthan SLDC/ NRLDC control room.

Members may kindly deliberate.

A.9 Multiple element tripping event in Rajasthan RE Complex (agenda by NRLDC)

- A.9.1 On 15th May 2023, at 11:51:55 hrs, 765kV Bhadla-Bikaner ckt-1 tripped on Y-B phase to phase fault during inclement weather condition (wind/dust storm), fault distance was ~111.6km from Bikaner end (line length is ~169km).
- A.9.2 On this fault, during voltage dip, significant dip in RE generation was observed. Due to significant dip in RE generation and de-loading of 765kV EHV lines (as RE generation failed to recover 90% of pre-fault active power within 1 sec), over voltage (>1.1pu at 765kV & 400kV level at RE Pooling stations) scenario was triggered immediately after the fault that led to multiple element tripping in the RE complex.
- A.9.3 As per PMU & SCADA data, total drop in RE generation was approx. 7120MW (~6410MW ISTS RE generation and ~710MW Rajasthan RE generation). Due to significant dip in RE generation, frequency dropped by 0.58Hz (from 49.98Hz to 49.4Hz). As frequency touched 49.40Hz, load relief of approx. 1500MW (NR) and 4000MW (All India) was observed on UFR operation.



- A.9.4 After the fault, following 765 & 400 kV lines in RE complex tripped on high voltage:
 - a) 765kV Fatehgarh2-Bhadla ckt-1
 - b) 765kV Bhadla2-Bikaner ckt-1
 - c) 765kV Ajmer-Phagi ckt-1
 - d) 765kV Fatehgarh2-Bhadla2 ckt-1
 - e) 765kV Bhadla-Bikaner ckt-2

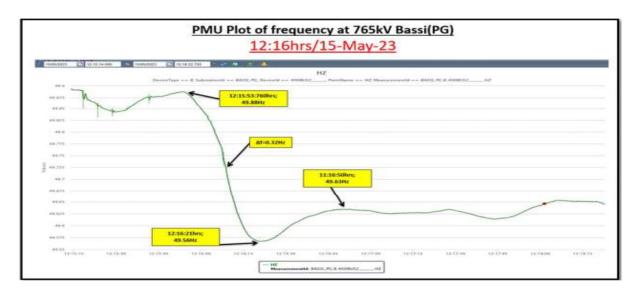
- f) 400kV Fatehgarh1-Fatehgarh2 ckt-1
- g) 400kV Bhadla-Bhadla2 ckt-1&2
- h) 400kV Bhadla-Bhadla_Raj ckt-1&2
- i) 400kV Bhadla-Merta ckt
- j) 400kV Bhadla-Jodhpur ckt
- k) 400kV Bhadla-Ramgarh ckt-1&2

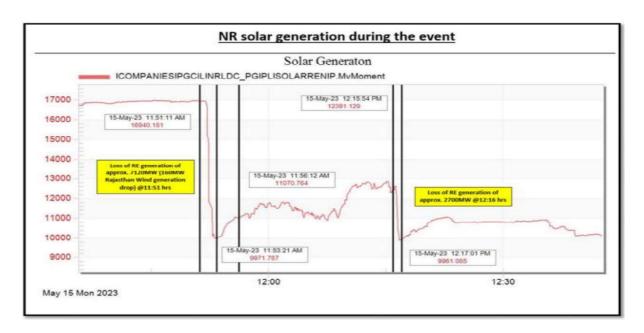
Various 220kV lines dedicated to RE stations also tripped on over voltage during the above event.

A.9.5 Further at 12:08 hrs, 765kV Fatehgarh2-Bhadla2 ckt-1 was charged. At 12:16hrs, charging attempt of 765kV Bhadla-Bikaner ckt-2 was taken from Bhadla end however, line couldn't hold and again over voltage (>1.1pu at 765kV & 400kV level at RE Pooling stations) scenario was triggered in RE complex.

On this over voltage following 765 & 400 kV lines in RE complex tripped:

- a) 765kV Bhadla-Fatehgarh2 ckt-2
- b) 765kV Bhadla2-Fatehgarh2 ckt-1
- c) 400kV Fatehgarh1-AFSPS ckt-1 & 2
- d) 400kV Bhadla2-Kolayat ckt
- A.9.6 Multiple 220kV lines dedicated to RE stations also tripped on over voltage during same time. Further, 765kV Bhadla-Fatehgarh2 ckt-2 and 400kV Fatehgarh1-AFSPS ckt-1 & 2 tripped followed by blackout at 765/400/220kV Bhadla (PG) & 400/220kV ADANI Fatehgarh Solar park. As per PMU & SCADA data, total drop in RE generation was approx. 2700MW. Due to significant dip in RE generation frequency dropped by 0.25Hz (from 49.88Hz to 49.63Hz).

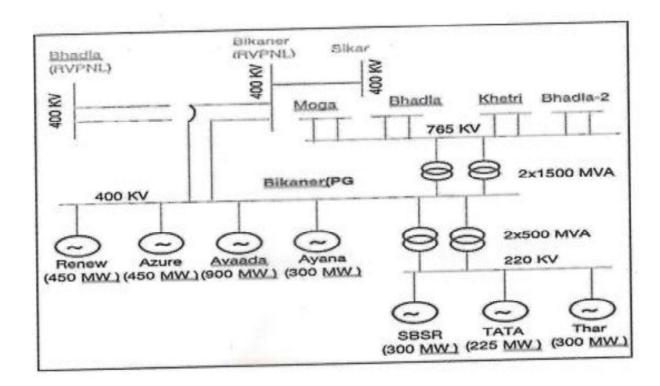




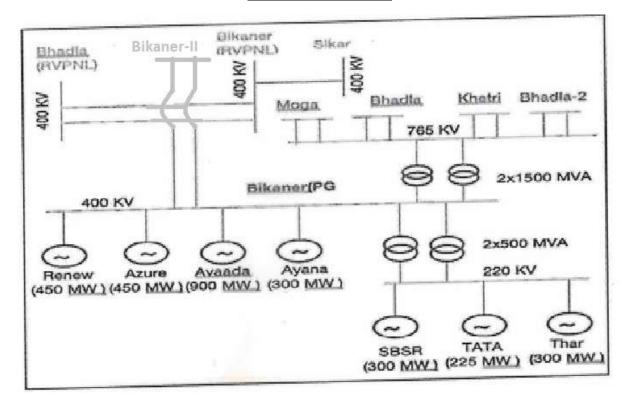
- A.9.7 From the PMU data available at NRLDC, it is seen that only 9 out of 45 plants were LVRT/ HVRT compliant w.r.t active power recovery after fault (**Annexure-V**).
- A.9.8 All RE generators have been enquired to submit plant/inverter level high resolution data to analyse the event in detail vide NRLDC email dated 15.05.2023 & letter dated 18.05.2023.

A.10 Revival of 400kV Bhadla(RVPN)- Bikaner(RVPN) and 400kV Bhadla(RVPN)- Bikaner(PG) (agenda by NRLDC)

- A.10.1 As agreed in 202nd OCC meeting held in Dec 2022, an interim arrangement was done wherein both ckts. of 400kV Bhadla(RVPN)-Bikaner(RVPN) D/C lines were connected as 400kV Bikaner(PG)-Bikaner(RVPN) till commissioning of Bikaner-II substation.
- A.10.2 Recently, POWERGRID has informed that 400kV Bikaner-II S/s is expected to be commissioned shortly. For the commissioning works of the substation, 400kV Bikaner(PG)-Bikaner(RVPN) both ckts need to be disconnected and extended from Bikaner(PG) to Bikaner-II S/s so as to form 400kV Bikaner(PG)-Bikaner II D/C lines whereas 400kV Bhadla(RVPN)-Bikaner(RVPN) D/C lines would be restored back.



Present arrangement



Proposed arrangement

- A.10.3 The above proposal from POWERGRID was discussed in 65th NRPC meeting held on 21.04.2023 & then in separate meeting between NRLDC, POWERGRID, NRPC & CTUIL held on 25.04.2023.
- A.10.4 As informed by RVPN on 16.05.2023, 4 no.s of tower (309-312) in 400kV Bhadla-Bikaner (PG) & Bhadla-Bikaner (RVPN) lines which were antitheft charged have collapsed.

- A.10.5 With present ISTS network arrangement in Rajasthan, commissioning of 400kV Bikaner-II S/s is required for allowing further RE generation evacuation from ISTS RE complex. Moreover, as informed by POWERGRID, for commissioning of 400kV Bikaner-II S/s, shutdown of 400kV Bikaner(PG)-Bikaner(RVPN) both ckts. would be required. With present RE generation capacity, if these two lines are taken under shutdown and 400kV Bhadla(RVPN)-Bikaner(RVPN) D/C lines are not available, then nearly 1700-1800MW of ISTS RE curtailment would be required in view of grid safety & security. Further, additional RE generation is also expected to be commissioned in next 1-2 months.
- A.10.6 Therefore, availability of 400kV Bhadla(RVPN)-Bikaner(RVPN) D/C lines is very important considering safe and secure RE evacuation from the grid.
- A.10.7 RVPN to take necessary actions for revival of 400kV Bhadla-Bikaner (PG) & Bhadla-Bikaner (RVPN) lines on priority.

A.11 Despatching of Intra state Gas plants Under RRAS (agenda by NRLDC)

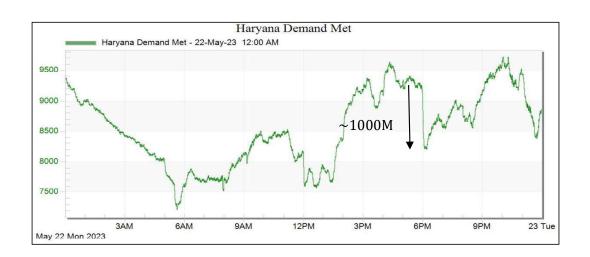
- A.11.1 CERC vide order dated 23rd April, 2023 in Petition No. 06/SM/2023 has expanded the ambit of RRAS Regulation and all regional entity and intra state entity were made eligible to participate in RRAS whose tariff is determined or adopted by respective State Commission or whose tariffs are discovered through a competitive bidding process. The relevant extract is quoted below:
 - "7.a. The Eligibility for participation for RRAS referred to in Regulation 5 of the RRAS Regulations, 2015 shall, in addition to the regional entity generating stations whose tariffs are determined or adopted by the Commission, also include the state generating stations whose tariffs are determined or adopted by the State Commission and willing to participate under RRAS; and the generating stations which are mandated by the Central Government to participate under RRAS and whose tariffs are discovered through a competitive bidding process".
- A.11.2 Gas based generation from GAMA in NR has been tied up through NVVN to harness the gas based generation for meeting the demand during crunch days. NTPC Faridabad in NR is intra state generator whose tariff is determined by CERC and is also eligible to participate in RRAS as per above CERC order.
- A.11.3 The intra state generators have recently participated in the Power Exchanges. Similar Practice would be followed for despatching through RRAS except for directions would be given from NLDC. Scheduling and DSM would be as per the extant practice. Scheduled RRAS power would be settled as per the RRAS accounts issued by RPCs.

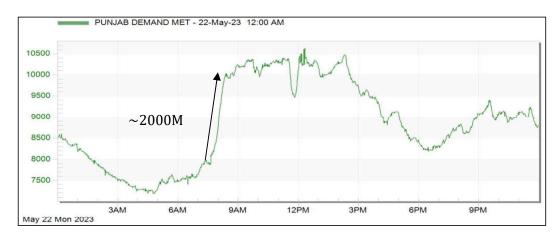
A.11.4 Haryana SLDC, Uttarakhand SLDC, GAMA and NTPC Faridabad are requested to extend support for despatch under RRAS and provide their support in required frequency control.

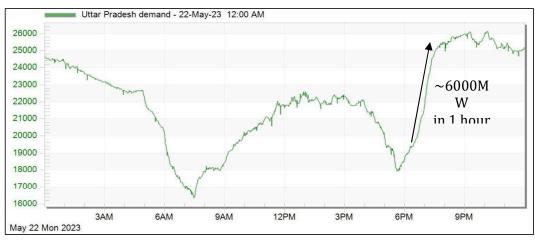
Members may kindly deliberate.

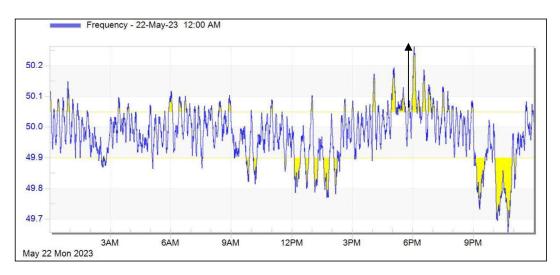
A.12 Minimising demand connection/ disconnection at hourly boundaries (agenda by NRLDC)

- A.12.1 As per IEGC Regulation 5.2(j), no User / SEB shall cause a sudden variation in its load by more than one hundred (100 MW) without prior intimation to and consent of the RLDC. Such large sudden load changes may lead to frequency excursions and voltage fluctuations. Due to scheduled / unscheduled power restrictions to groups of loads on rotational basis during the day, these frequency excursions may be seen especially at hourly boundaries. To avoid these excursions, following have been suggested in NRPC OCC meetings:
 - a. Avoiding large load changes at hourly boundaries by
 - Creating large number of supply groups (of smaller quantum)
 - Staggering the supply hours (even to sub hourly and 15-minute time blocks).
 - b. Flexing the generation adequately during these hours:
 - Taking care of generation in scheduling itself.
 - Ensuring adequate primary frequency response from generating stations under Governor action.
- A.12.2 However, it is being observed that demand of some of the states is changing by significant quantum at hourly boundaries as shown below:









A.12.3 It is once again requested that states take proactive measures for arresting sudden connection/disconnection of demand especially at hourly boundaries and provide support in ensuring operation of grid frequency within the IEGC band.

Members may kindly deliberate.

A.13 State-wise transmission constraints anticipated during high demand season (agenda by NRLDC)

A.13.1 The state-wise transmission constraints were discussed in detail in 66 NRPC meeting held in March 2023 wherein utilities were asked to take proactive steps to ensure that

minimal transmission constraints are observed during the high demand season. Statewise issues that need quick actions are listed below:

Commissioning of new elements for Haryana:

- 500MVA ICT at 400/220kV Deepalpur
- 500MVA ICT at 400/220kV Kurukshetra
- 220kV Sec 32 Panchkula and 220kV lines to Panchkula (PG) (expected by Jun 2023 end)
- 220kV lines from Panchkula(PG) to Pinjore (expected by Jun 2023 end)

Commissioning of new elements for Punjab:

- 315MVA to 500MVA ICT at Nakodar (expected by mid Jun 2023)
- 400/220kV Dhanansu S/s with lines at both 220kV & 400kV level
- Capacity augmentation at 400/220kV Nallagarh

Commissioning of new elements for Delhi:

315MVA ICT replacement at Mundka

Commissioning of new elements for UP:

- 500MVA ICT at Sohawal(PG)
- Shifting more load onto the recently commissioned substations to relieve loading
 n-1 non-compliant such as Azamgarh, Obra, Sarnath, Nehtaur, and Gorakhpur
- A.13.2 SLDCs to ensure that loading of ICTs and lines are below their N-1 contingency limits. While requisitioning power from various sources, states should take care to limit their scheduled drawl as well as actual drawl in real time within the Available Transfer Capability (ATC) limits assessed by SLDC and NRLDC.
- A.13.3 Punjab, Haryana, HP, Uttarakhand & UP are communicating with NRLDC regularly regarding ATC/TTC assessment for summer/monsoon 2023. However, other states such as Delhi, Rajasthan and J&K are yet to provide their ATC/TTC assessments for summer/monsoon 2023.
- A.13.4 Punjab, Haryana and UP have shared their ATC/TTC assessment considering number of transmission elements that were anticipated to be commissioned. Based on actually commissioned transmission elements, these states are requested to review and submit their ATC/TTC for summer/monsoon 2023 at the earliest.

A.14 Regarding procurement of additional SEMs in Northern region (agenda by NRLDC)

- A.14.1 In line with Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006 and subsequent amendment thereof, Interface Energy Meter (IEM) is used for accounting and billing of electricity, connected at the point of interconnection between electrical systems of generating company, licensee and consumers, directly connected to the Inter-State Transmission System (ISTS).
- A.14.2 Delay in replacement of i.) Faulty meters and ii.) Meters with high time drift is a matter of concern as it creates issue in data validation and account preparation as well as error in Pool Loss calculation. Presently there are approx. 2700 SEMs installed in NR region. To ensure timely replacement of faulty meters and replacement of old meters where calibration has not been done for a long time, it is required to maintain sufficient reserve of meters around 10% of total available meters i.e. 270. Additionally, considering the upcoming projects within the next one year, as per data obtained from CTUIL website, it is anticipated that additional 300 SEMs (Annexure-VI) may be required for installation. Adequate number of Data Collecting Devices (DCDs) alongside the SEMs also may be procured.
- A.14.3 It is proposed to procure 500 SEMs and 50 DCDs.

Members may kindly deliberate.

A.15 Budgetary provisions of RPCs (agenda by NRPC Sectt.)

- A.15.1 Central Electricity Authority vide letter dtd. 01.05.2023 (attached as Annexure-VII) has issued Standard Operating Procedure (SOP) in view of meeting taken by Chairperson, CEA on 06.04.2023 for streamlining the process of fund utilization/budgetary provisions of all RPCs.
- A.15.2 As per above SOP, all expenditure of Salary head shall be met by budget provided by CEA. The same shall be reimbursed from RPC fund to CEA quarterly. All expenditure from other head shall be met by RPC fund.

Members may kindly deliberate.

- A.16 Replacement of 02 Nos. lifts installed at NRPC office building with new lifts and comprehensive maintenance of two Nos. lifts for a period of five years through CPWD (agenda by NRPC Sectt.)
- A.16.1 It is submitted that 02 Nos. of lifts as per following details were installed by CPWD at NRPC office since commissioning of the office:

- a) UT make Lift (Passenger elevator), Type: Motor traction, No. of Floors: 4, Door type: Automatic, speed: 1.0 mps.
- b) OTIS make Lift (Passenger elevator), Type: Hydraulic traction, No. of Floors: 4, Door type: Automatic, speed: 0.63 mps.
- A.16.2 NRPC requested CPWD vide letter dated 20.07.2022 for carrying out inspection of both the lifts at NRPC Sectt. and providing necessary cost estimates for lift maintenance and installation of new lifts.
- A.16.3 CPWD has mentioned in their proposal that the existing two Nos. lifts (OTIS and UT make) have completed its useful life as per CPWD specification. Currently these lifts are not in working condition since one year and in this condition the maintenance cost becomes high. Therefore it is suggested by CPWD to replace both these lifts for smooth running.
- A.16.4 Further, CPWD has submitted initial cost estimate amounting to Rs 66,93,398/- (vide letter dated 27.04.2023 (attached as **Annexure-VIII**) for replacement of two Nos. lifts and comprehensive AMC of these lifts for a period of five years.
- A.16.5 As per SOP for RPCs issued vide CEA letter dtd. 01.05.2023, non-recurring expenditure of more than Rs. 25 Lac can be done after approval in RPC meeting.
- A.16.6 Accordingly, forum may approve above proposal.

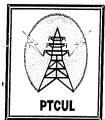
A.17 Status of contribution fee of FY 2022-23 (agenda by NRPC Sectt.)

- A.17.1 During 63rd meeting of NRPC (held on 24.02.2023), NRPC members agreed to contribute a sum of Rs.10 Lakh per member as contribution towards annual expenditure of NRPC secretariat for F.Y. 2022-23. It was also decided that in case of payment beyond 31.03.2023, 1% simple interest per month on late payment shall be levied. For eg. 1% interest upto 30.04.23 for April month, and so on. Payment made during the month would also invite 1% interest.
- A.17.2 Accordingly, 43 Nos. constituents were requested vide NRPC letter dated 28.02.2023 to make payments by 31.03.2023. The status of payment received (as on 22.05.2023) is attached as **Annexure-IX**.
- A.17.3 Following 05 Nos. constituents have not paid contribution amount till the date, who have been issued reminder- II vide letter dated 10.05.2023 for the revised contribution amount of Rs 10,20,000/- in lieu of late payment:

| S. No. | Name of Constituents who were | Status of revised payment |
|--------|-------------------------------|---------------------------|
| | issued Reminder-II | (Rs 10,20,000/-) |

| 1 | Dakshinanchal Vidyut Vitran Nigam Limited | Amount not received |
|---|--|---------------------|
| 2 | HPSEB. Ltd. | Amount not received |
| 3 | Ajmer Vidyut Vitran Nigam Ltd. | Amount not received |
| 4 | Jammu Kashmir Power Development | Amount not received |
| | Corporation Ltd. | |

- A.17.4 UPPTCL has not paid due penalty amount of Rs 10,000/-.
- A.17.5 APCPL and NHPC have requested for waiver of INR 10,000/- (1% penalty).



पावर ट्रान्सिमशन कारपोरेशन ऑफ उत्तराखण्ड लिमिटेड

(उत्तराखण्ड सरकार का उपक्रम)

मुख्य अभियन्ता (परिचालन एवं अनुरक्षण) कार्यालय

कुमायूँ क्षेत्र, 220के0वी० उपसंस्थान परिसर, कमलुवागॉजा, पो०आ०— कमलुवागांजा, हल्द्वानी (नैनीताल)—263139 Email –ce_oandmk@ptcul.org, Mob No. -7088117917

पत्रांक ९९८ /मु०अभि०(परि० एवं अनु०)/पिटकुल/

दिनांक 15/05/23

Annexure-I

Subject :-

Regarding additional agenda for 66nd NRPC meeting.

Director (Projects) Vidyut Bhawan PTCUL Dehradun.

By Email

Sir,

In reference to above mentioned subject, It is bring to your kind information that Superintending Engineer, O&M Circle, Haldwani vide his letter No. 878/SE(O&M)/PTCUL/ H/ HTLS Dated 15/05/2023 has submitted the additional agenda which is to be put up in the upcoming 66^{nd} as per recommendations from TESG member-NLDC in 72^{nd} TESG meeting held on dated 18/01/2023.

It is also bring to your kind information that at present SLDC is the only member of OCC not the NRPC, so it is therefore requested to kindly arrange to send the additional agenda for 66^{nd} NPRC meeting.

Submitted for your kind information.

Encl. :- As above

(Hitendra Singh Hyanki) Chief Engineer (O&M)

Copy to:-

- 1. PS to MD, PTCUL, Dehradun for kind information of Managing Director Sir.
- 2. Director (Operation), Vidyut Bhawan, PTCUL, Dehradun.
- 3. Superintending Engineer (O&M), PTCUL, Haldwani in reference to his above referred letter.

Additional Agenda for 66th NRPC Meeting "Load flow analysis of transmission lines of PTCUL."

As it is known to your goodself, There are mainly two sources of power in Kumaon region one is from 400 kV PGCIL Lines connected to 400 kV S/s Kashipur and the other is 220 kV Pantnagar –Bareilly Line which is connected to 220 kV Pantnagar S/s. PGCIL lines cater approximately 60 % load of Kumaon and partial load of Garhwal region also. Due to exponential growth in power demand of Kichha and ELDECO Sitarganj Region, the existing Line is unable to cater power demand of above region. It is also to be noted that there is no possibility of erecting new line due to non-availability of ROW (Right of Way). Therefore, replacement of ACSR Panther conductor in 132KV Sitarganj (PGCIL)- ELDECO Sitarganj single circuit line (22.0 Kms) and 132 KV Sitarganj –Kichha line (31.5Kms) with HTLS conductor is the only possible option to reduce the over loading of existing line and also to improve the reliability of the evacuation of power to cater the increased load demand in Kichha, ELDECO and nearby area through 132 KV Substation, Kichha and ELDECO. This Line is the only gateway of power from 220kV PGCIL substation Sitarganj thereby it justifies the existence of 220 kV PGCIL S/s and provides stability to the grid by evacuating power from aforementioned PGCIL S/s.

NLDC-PSDF in 72nd TESG meeting held on dated 18.01.2023 raised input /observation that "Recommendation of NRPC is Required" following which PTCUL presented the same in 66th NRPC meeting wherein NRPC stated that "the system study done by PTCUL need to be examined by CEA and CTU, hence it may be submitted to them for further scrutiny". The system study submitted by PTCUL for aforesaid mentioned project has been examined by CEA in congruence with CTU and found generally in order as per CEA letter no. CEA-PS-11-21(24)/1/2018-PSPA-I Divison dated 9.5.2023 (Copy enclosed).

In the above context, it is to apprise that above proposal is eligible for 100 % funding from PSDF.Hence it is requested to put agenda for load flow analysis of 132KV Sitarganj (PGCIL)- ELDECO Sitarganj single circuit line (22.0 Kms) and 132 KV Sitarganj –Kichha line (31.5Kms) in upcoming 66th NRPC meeting.

Submitted for kind perusal and necessary action in the matter.

(Hitendra Singh Hyanki) Chief Engineer (O&M)

Haldwani



भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority विद्युत प्रणाली योजना एवं मूल्यांकन-। प्रभाग

Power System Planning & Appraisal-I Division

,986 CE (O&M)/PI

सेवा में / To.

Managing Director

Power Transmission Corporation of Uttarakhand Limited,

Saharanpur Road, Majra,

Dehradaun- 248002

Vidhyut Bhawan, Near ISBT Crossing,

विषय/Sub: PTCUL's proposal for replacement of ACSR Panther conductors in 132 kV Sitarganj (PGCIL)- ELDECO Sitarganj S/c line (22 kms) and 132 kV Sitarganj-

Kichha S/e line (31.5 kms) with HTLS conductor

संदर्भ /Reference

- PTCU letter no 685/SE (O&M)/PTCUL/H/Time Ext./HTLS dated 17.04.2023 (i)
- (ii) CEA email dated 18:04.2023
- PTCU lictter no. 809/SE (O&M)/PTCUL/H/HTLS dated 28.04,2023 (iii)

Madam/Sir,

PTCUL vide letter dated 17.04.2023 has submitted the proposal for replacement of ACSR Panther conductors in 132 kV Sitarganj (PGCIL) - ELDECO Sitarganj S/c line (22 kms) and 132 kV Sitarganj- Kichha S/c line (31.5 kms) with HTLS conductor. CEA vide email dated 18.04.2023 has sought certain clarifications regarding the proposal which has been furnished by PTCUL vide letter dated 28.04.2023. PTCUL's proposal has been examined and CEA

- As per the data furnished by PTCUL, peak loading observed in 132 kV Sitarganj-(i) Kichha S/c line (31.5 kms) is 91 MW i.e. the said line is critically loaded and loading on the line would further increase in future with increase in the load growth. In view of this, P1 U1's proposal for replacement of ACSR Panther conductor in 132 kV Sitarganj- Lichha Sie line (31.5 kms) with HTLS conductor is generally in order.
- Peak loading observed in 132 kV Sitarganj (PGCIL) ELDECO Sitarganj S/c line (22 (ii) kms) is 69 MW. PCTUL has envisaged new load of 20 MW for Plastic Park at ELDECO Snargani substation and has carried out load flow studies for the same. As per the load flow studies, 132 kV Sitarganj (PGCIL) - ELDECO Sitarganj S/c line (22 kms) is emically loaded. Therefore, PTCUL's proposal for replacement of ACSR Panther conductor in 132 kV Sitarganj (PGCIL) - ELDECO Sitarganj S/c line (22 kms) with HTLS conductor is generally in order.

- (iii) Sitarganj (PGCIL) ELDECO Sitarganj 132 kV S/c line is N-1 non-compliant as no source would be available for ELDECO Sitarganj 132 kV substation with outage of this line. Therefore, PTCUL is requested to expedite the construction of Kichha ELDECO Sitarganj 132 kV S/c line to make the transmission system 'N-1' compliant.
- (iv) As per the load flow studies submitted by PTCUL, Rudrapur- Kichha 132 kV S/c line may become critically loaded under 'N-1' contingency, with outage of Sitarganj-Kichha 1.3 kV S/c line. It is suggested to plan remedial measures for the same.
- (v) With the proposed reconductoring of 132 kV Sitarganj- Kichha S/c line (31.5 kms), loading on satargany (PGCIL)- Sitarganj 132 kV D/c line would increase and it may become critically loaded under 'N-1' contingency with outage of one circuit. It is suggested temonitor the loading on the line and plan suitable measures for the same.

भवदीय / Yours faithfully,

(मंजरी चतुर्वेदी/Manjari Chaturvedi) निदेशक/Director उ०प्र०पॉवर ट्रांसमिशन कारपोरेशन लि० (उत्तर प्रदेश सरकार का उपक्रम) यू०पी०एस०एल०डी०सी० परिसर, विभूति खण्ड-।। गोमती नगर, लखनऊ-226010

ई-मेल: cepso@upsldc.org

sera@upsldc.org



U.P. State Load Despatch Centre

U.P. Power Transmission Corporation Ltd. (A U.P. Govt. Undertaking)

UPSLDC Complex, Vibhuti Khand - II Gomti Nagar, Lucknow- 226010

E-mail: cepso@upsldc.org

Annexure-II

Dated: - 16/05/ 2023

sera@upsldc.org

No: - 2063 /SE(R&A)/EE-II/SPS

Member Secretary, NRPC,

18 - A, SJSS Marg, Katwaria Sarai,

New Delhi, 110016.

Subject - Regarding revision of System Protection Scheme (SPS) at Bara TPS.

It is to inform you that 1500MVA, 765/400kV ICT-II has been commissioned on 31.03.2023 at Bara TPS. Following the commissioning of aforementioned ICT, SPS installed at Bara TPS needs to be revised. Discussion on revised SPS scheme at Bara TPS was held in 206th OCC meeting of NRPC and the special meeting held on subject issue on dated 12.05.2023. Based on discussion in the aforesaid meetings the revised logic has been finialized by UPSLDC which is enclosed herewith.

It is requested to kindly include this proposal as agenda in 207th OCC meeting of NRPC so that the same may be discussed and approved.

Encl: - As above

Arshad Jamal Siddiqui)

Superintending Engineer (R&A)

No: - 2063 /SE(R&A)/EE-II/SPS

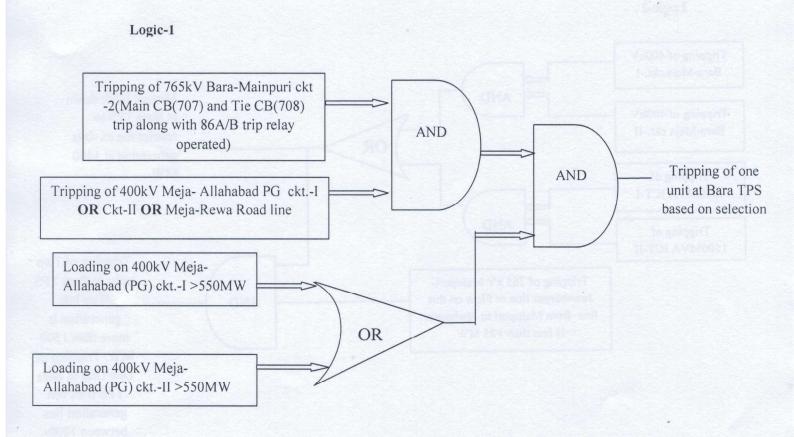
Dated: - 16 08 2023

Copy forwarded to following for kind information and necessary action:-

- 1. Director, UPSLDC, Vibhuti Khand II, Gomti Nagar, Lucknow.
- 2. Director (Operation), UPPTCL, 11th Floor, Shakti Bhawan Extn., Lucknow.
- 3. Chief Engineer (PSO), UPSLDC Vibhuti Khand II, Gomti Nagar, Lucknow.
- 4. General Manager, NRLDC18-A, SJSS Marg, Katwaria Sarai, New Delhi 110016.
- 5. President, M/s Prayag Raj Thermal Power Plant, Village-Khansemra, PO-Lohgara, Tehsil-Bara, Distt-Allahabad 212107.

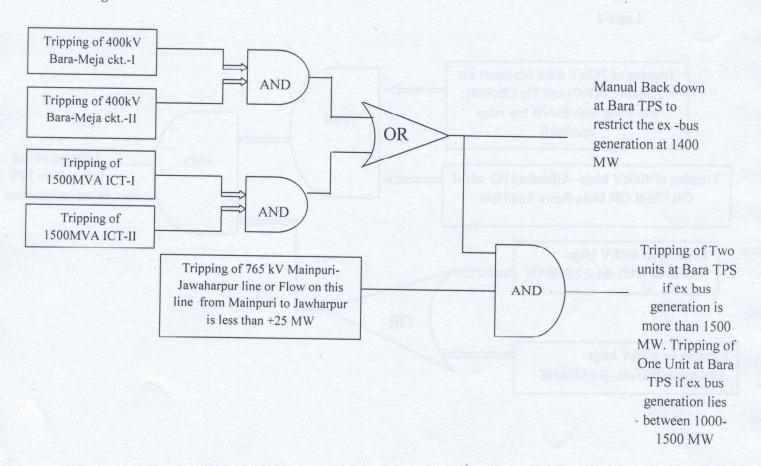
(Arshad Jamal Siddiqui) Superintending Engineer (R&A)

Revised logic for SPS at Bara TPS



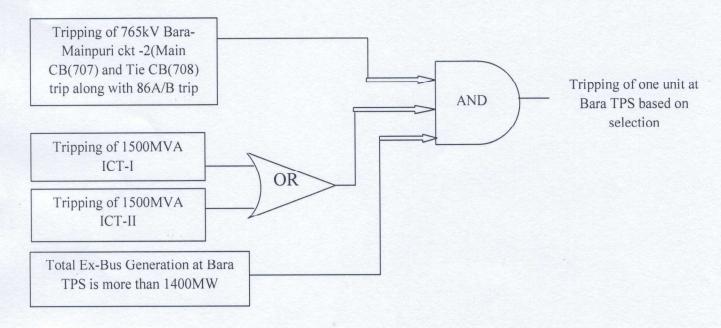
Note- To avoid the loading on 400kV Meja- Allahabad PG ckt.-I &II to go beyond 650 MW following the tripping of 765 kV Bara-Mainpuri Ckt –II ,as a Standard Operating Procedure, control room operator shall take action to bring down generation at Bara TPS to restrict the loading on 400kV Meja- Allahabad PG ckt.-I &II below 550 MW

Logic-2



Note- As a SOP, Bara TPS shall ensure that selection of Unit for tripping is done in such a way that Unit with highest generation gets tripped.

Logic-3



उत्तर प्रदेश राज्य भार प्रेषण केन्द्र

उ०प्र०पॉवर ट्रांसिमशन कारपोरेशन लि० (उत्तर प्रदेश सरकार का उपक्रम) यू०पी०एस०एल०डी०सी० परिसर, विभूति खण्ड—।। गुंगनी नगर, लखनऊ—226010

ई-मेल: cepso@upsldc.org sera@upsldc.org



U.P. State Load Despatch Centre

U.P. Power Transmission Corporation Ltd. (A U.P. Govt. Undertaking)
UPSLDC Complex, Vibhuti Khand – II
Gomti Nagar, Lucknow- 226010

sera@upsldc.org

E-mail: cepso@upsldc.org

Annexure-III

No: - 2/82/SE(R&A)/EE-II/SPS/ Jawaharpur

Dated: - 23.05. 2023

Member Secretary, NRPC,

18 - A, SJSS Marg, Katwaria Sarai,

New Delhi, 110016.

<u>Subject – Agenda for 66th NRPC meeting regarding System Protection Scheme at Jawaharpur TPS.</u>

A meeting to discuss SPS scheme for safe evacuation of power from Jawaharpur TPS was held on 23.05.2023 with representative from NRPC, NRLDC and Jawaharpur TPS (Minutes of Meeting is enclosed). Based on the discussion in the said meeting, the logic for SPS has been finalised by UPSLDC which is enclosed.

It is requested to kindly include the logic for SPS at Jawaharpur TPS as an agenda in the 66th NRPC meeting scheduled on 30.05.2023 for the discussion and approval.

Encl: - As above

Lov Superintending Engineer (R&A)

No: - /SE(R&A)/EE-II/SPS/ Jawaharpur

Dated: -

2023

Copy forwarded to following for kind information and necessary action:-

- 1. Director, UPSLDC, Vibhuti Khand II, Gomti Nagar, Lucknow.
- 2. Director (Operation), UPPTCL, 11th Floor, Shakti Bhawan Extn., Lucknow.
- 3. Director (Technical), UPRVUNL, 8thFloor, Shakti Bhawan Extn., Lucknow.
- 4. Chief Engineer (PSO), UPSLDC Vibhuti Khand II, Gomti Nagar, Lucknow.
- 5. Chief Engineer, Jawaharpur Power Station Malawan village, Distt- Etah, Uttar Pradesh. (gm.jawaharpur1@uprvunl.org).
- 6. General Manager, NRLDC18-A, SJSS Marg, Katwaria Sarai, New Delhi 110016.

Superintending Engineer (R&A)

उत्तर प्रदेश राज्य भार प्रेषण केन्द्र

उ०प्र०पॉवर ट्रांसिमशन कारपोरेशन लि० (उत्तर प्रदेश सरकार का उपक्रम) यू०पी०एस०एल०डी०सी० परिसर, विभूति खण्ड—।। गोमती नगर, लखनऊ—226010

ई-मेल : cepso@upsldc.org sera@upsldc.org



U.P. State Load Despatch Centre

U.P. Power Transmission Corporation Ltd. (A U.P. Govt. Undertaking)
UPSLDC Complex, Vibhuti Khand – II
Gomti Nagar, Lucknow- 226010
E-mail: cepso@upsldc.org

sera@upsldc.org

No: - 2181 / SE(R&A)/EE-II/Meeting

Dated: - 23.05. 2023

To,

As per distribution list. (Through E-mail)

Subject:- Minutes of Meeting regarding System Protection Scheme at Jawaharpur TPS.

A meeting to discuss System Protection Scheme at Jawaharpur TPS held on 23.05.2023. vide letter no. 2154/SE(R&A)/EE-II/SPS dated 20.05.2023. Copy of the Minutes of Meeting is enclosed for further necessary action.

Encl: As above.

Superintending Engineer (R&A)

No: - / SE(R&A)/EE-II/Meeting

Dated: -

2023

Copy forwarded for kind information and necessary action to the following:-

- 1. Director, UPSLDC, Vibhuti Khand II, Gomti Nagar, Lucknow.
- 2. Director (Operation), UPPTCL, 11th Floor, Shakti Bhawan Extn., Lucknow.
- 3. Director (Technical), UPRVUNL, 8th Floor, Shakti Bhawan Extension, Lucknow.
- 4. Chief Engineer (PSO), UPSLDC, Vibhuti Khand II, Gomti Nagar, Lucknow.

Superintending Engineer (R&A)

Distribution List

- 1. Member Secretary, NRPC, 18 A, SJSS Marg, Katwaria Sarai, New Delhi, 110016.
- 2. Chief Engineer, (Commercial), UPRVUNL, Shakti Bhawan, Lucknow.
- 3. Chief Engineer, Jawaharpur Power Station Malawan village, Distt- Etah, Uttar Pradesh. (gm.jawaharpur1@uprvunl.org).
- 4. SE (Operations), 18 A SJSS Marg, Katwaria Sarai, New Delhi, 110016.(seo-nrpc@nic.in)
- 5. General Manager, NRLDC18-A, SJSS Marg, Katwaria Sarai, New Delhi 110016.
- 6. Superintending Engineer (System Control), UPSLDC, Vibhuti Khand II, Gomti Nagar, Lucknow.
- 7. Superintending Engineer, Jawaharpur Power Station, Distt- Etah, Uttar Pradesh.

Minutes of Coordination Meeting held on 23.05.2023

A meeting to discuss proposed SPS scheme for Jawaharpur TPS was held via Google Meet on 23.05.2023. The list of the participants are as follows:-

NRPC Secretariat

- 1. Shri V.K Singh, Member Secretary, NRPC.
- 2. Shri Santosh Kumar, Superintending Engineer (Operation), NRPC.

NRLDC

1. Shri Gaurav Malviya, Manager, NRLDC.

UPSLDC

- 1. Shri A.J. Siddiqui, Superintending Engineer, (R&A), UPSLDC.
- 2. Shri Ram Sharan Singh, Executive Engineer, (R&A), UPSLDC.
- 3. Shri Mohsin Khan, Assistant Engineer, (R&A), UPSLDC.

Jawaharpur TPS & UPRVUNL

- 1. Shri Atul Kumar, Chief Engineer (Commercial), UPRVUNL.
- 2. Shri Shyam ji Mishra, Superintending Engineer, Jawaharpur TPS, UPRVUNL.
- 3. Shri Abu Zar, Executive Engineer, Jawaharpur TPS, UPRVUNL.
- 4. Shri Gyanesh Sharma, Executive Engineer, Jawaharpur TPS, UPRVUNL.
- 5. Shri, B. Benerji, M/s Doosan.

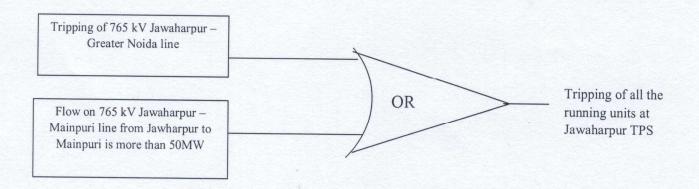
During discussion in the meeting UPSLDC representative informed that evacuation of power from Jawaharpur TPS is to be done through 765kV Jawaharpur-Gr. Noida line, 765kV Jawaharpur-Mainpuri line and 2*1500 MVA ICT at Jawaharpur. At present only 765kV Jawaharpur-Gr. Noida line and 765kV Jawaharpur-Mainpuri line are commissioned. UPSLDC representative also briefed about the logic of SPS at Jawaharpur TPS (enclosed). Discussion during the meeting may be summarized in following points:-

- 1. Due to availability of Single ICT of 1000MVA at 765kV S/S Mainpuri, power from Jawaharpur TPS can not be evacuated if 765kV Jawaharpur-Gr. Noida line is not available.
- 2. Therefore, SPS has to be planned for safe evacuation of power from Jawaharpur TPS. The logic for SPS is as follows:-
 - "With the tripping of 765kV Jawaharpur TPS- Gr.Noida line <u>OR</u> flow on 765kV Jawaharpur-Mainpuri line from Jawaharpur to Mainpuri is more than 50MW, all the running unit at Jawaharpur TPS shall trip".
- 3. All the participants in the meeting expressed their consent over the logic. Member Secretary, NRPC directed UPSLDC to submit the SPS logic for Jawaharpur TPS as an agenda in the 66th NRPC meeting to be held on 30.05.2023.
- 4. Study and SPS logic is attached as Annexure.

Encl: As above.

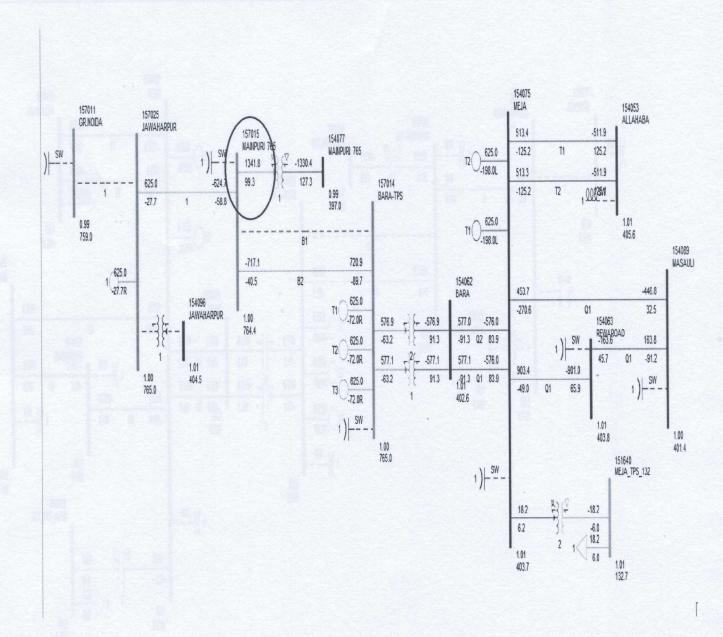
Superintending Engineer (R&A)

Logic for SPS at Jawaharpur TPS

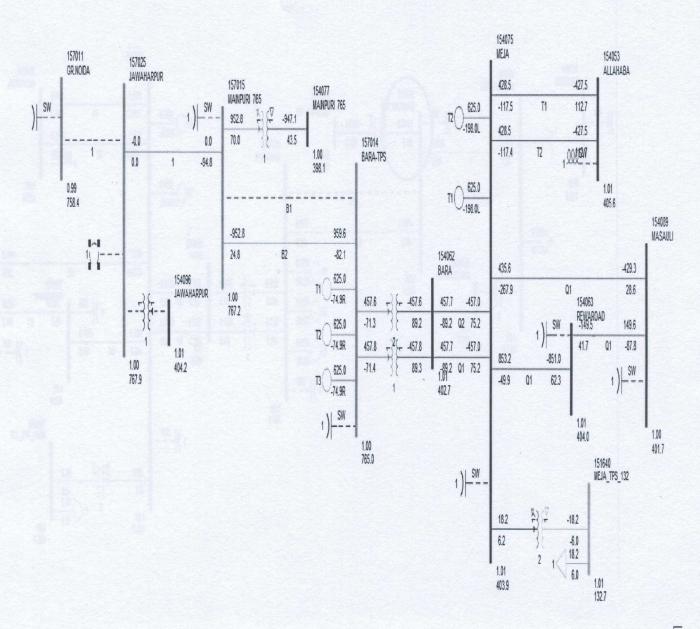


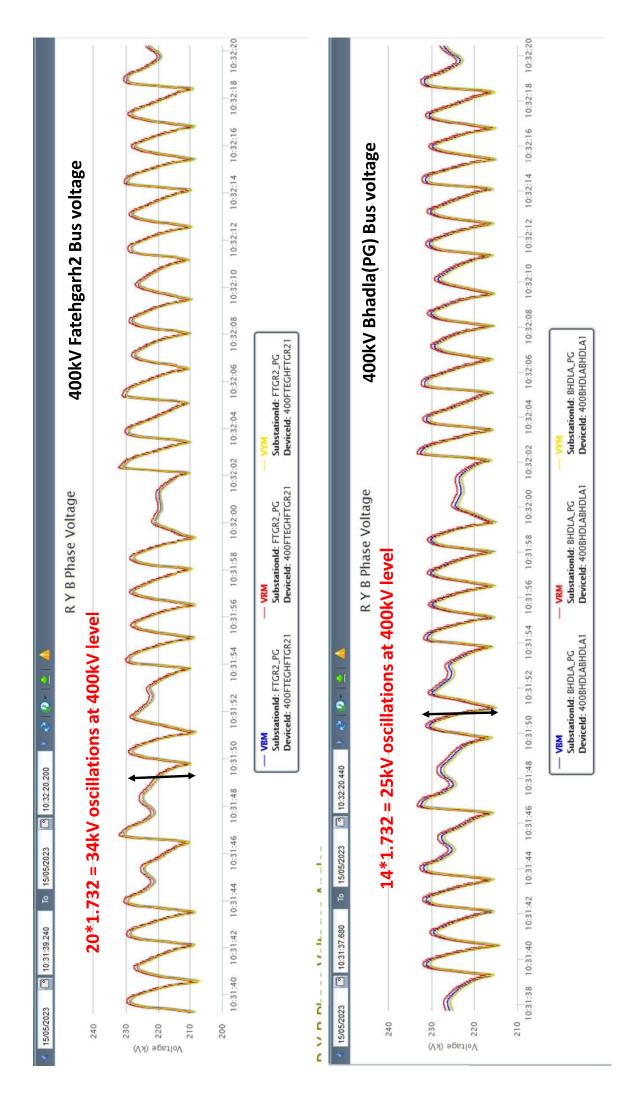
Study and Logic for SPS at Jawaharpur

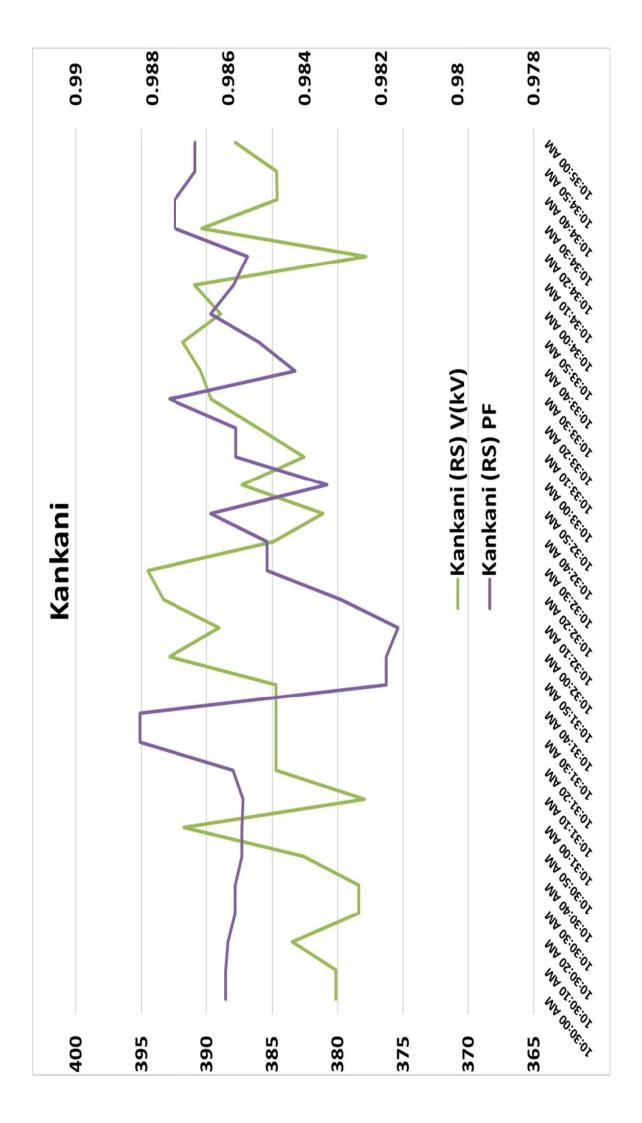
In case of tripping of 765 kV Jawaharpur-Gr Noida line, there would be transmission constraint in evacuation of power from Jawaharpur TPS as there is single ICT of 1000 MVA capacity at 765 kV substation Mainpuri.

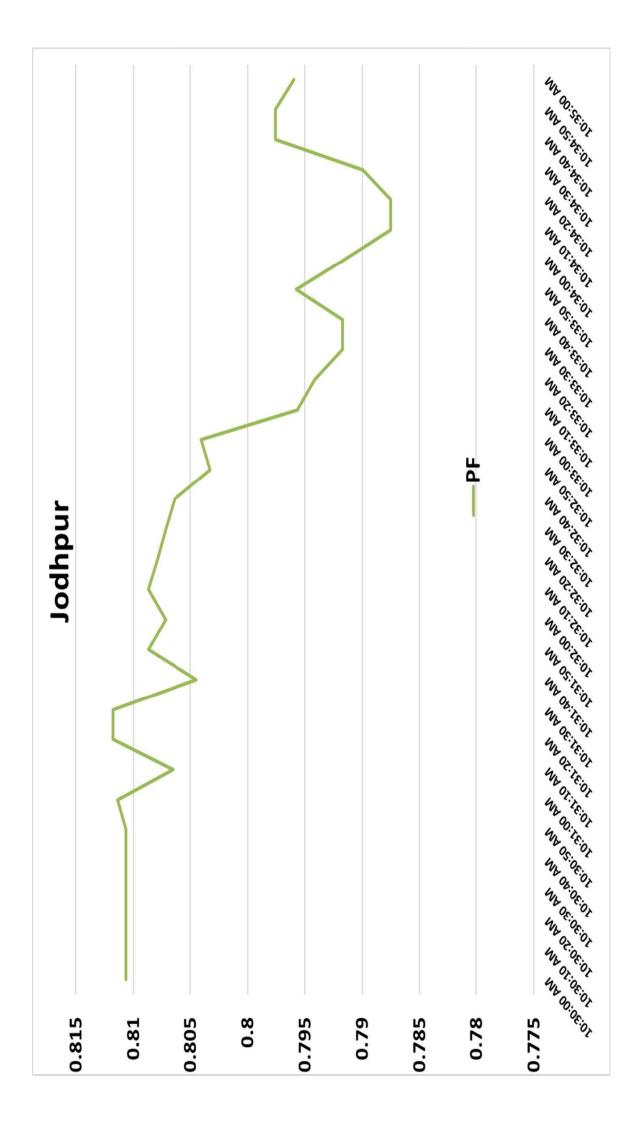


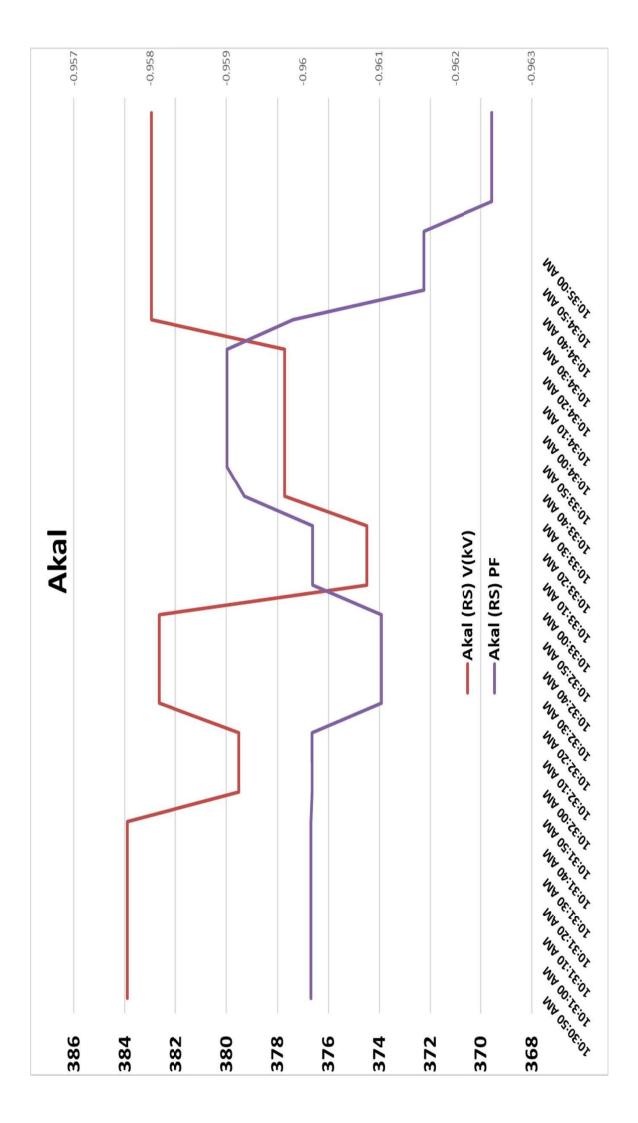
Therefore SPS need to be planned at Jawaharpur TPS in such a way that in case of tripping of 765 kV Jawaharpur TPS-Gr Noida line, all the running unit at Jawaharpur TPS get tripped.

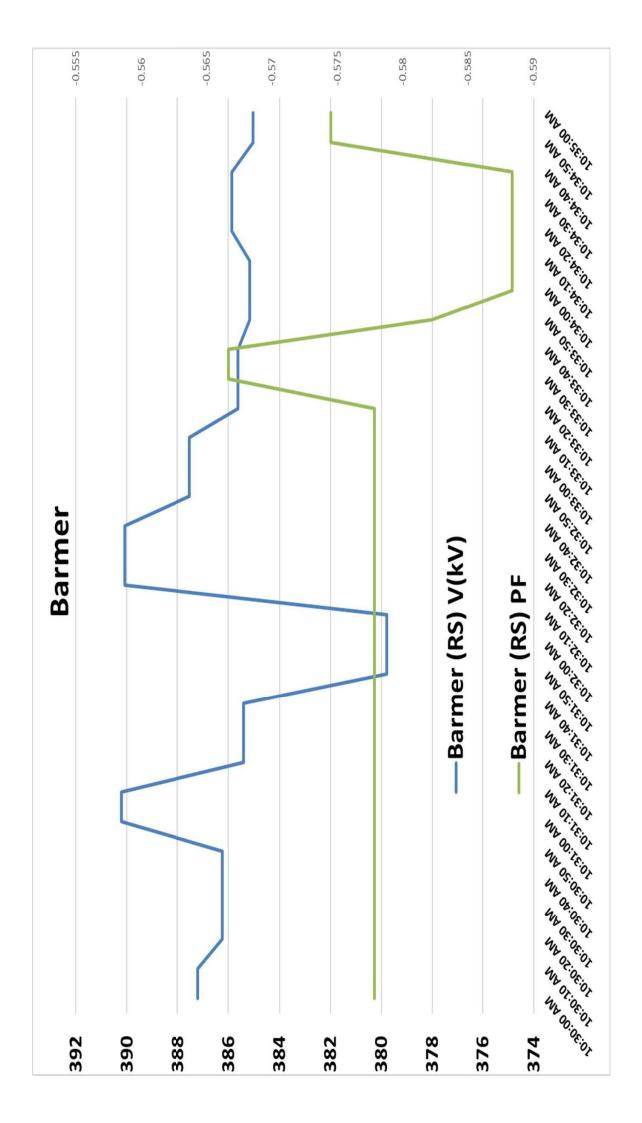












Complaince Status of RE plants vis-à-vis CEA Technical Standards for Connectivity to The Grid

| 1 | | | | | | | | YY Y | Active Power (MW) | | Ä | Reactive power (MVAR | AR | | |
|---|-------------------------|---|-------------------------------|-----------------------|-----------|--|---|--------------------------|---------------------------------|---|--------------------------------|---|---|--------------------------|---|
| | Connected at | Name of SPPD/Generator | Installed Capacity (MW) | Inverter/ WTG Make | PMU Code | Voltage (Fault instant) at POI (PU) | Highest Voltage recorded at POI (PU) | Before at (12:57:22.560) | After One second (12:57:23,560) | Percentage Recovered immediately after fault | Before at (12:57:22.560) | At fault Instant (12:57:22.580) | Immediately after fault clearance (12:57:27.960) | HVRT/LVRT Compliance | Reactive Power Support during fault condition (partially, fully, non-complaint) |
| | | Adani Solar Enegry Jodhpur Two Limited, Rawara | 50 | HUAWEI | | | | | | | | | | | |
| | | Adani Solar Enegry Four Private Limited | 20 | HUAWEI | RAWRA_IP | 0.7 | 1.14 | 299 | 299 | 100% | 0.48 | 27 | -14 | Compliant | Supported system during fault |
| | | Adani Renewable Energy (RJ) limited Rawara | 200 | HUAWEI | | | | | | | | | | | |
| | | Mahindra Renewable Private Limited (MRPL) | 250 | SUNGROW | MRPL_IP | 0.65 | 1.15 | 246 | 258 | 105% | 2.97 | 4.13 | -25 | Compliant | Partially |
| | , | Essel Saurya Urja Company of Rajasthan Limited (ESURL) | 300 | SINENG | ESURL_IP | 0.65 | 1.15 | 301 | 207 | %69 | -25 | 09- | 10 | LVRT Non-Compliant | Opposite Response |
| _ | | Azure Power Maple Pvt. Limited (AZRMP) | 300 | HUAWEI | AZRMP_IP | | | | Azure î | Mapple tripped | on tripping of 3 | Azure Mapple tripped on tripping of 33 kV ICT on Over Voltage | oltage | | |
| | | ACME Chittorgarh Solar Energy Pvt. Ltd (ACME) | 250 | TBEA | ACME_IP | | | | | ACME | ACME line tripped on R-N fault | R-N fault | | | |
| | 400 kV Bhadla I (PG) | 400 kV Bhadla I Azure Power Forty One Private (PG) | 300 | HUAWEI | AZR41_IP | | | | Azur | e 41 tripped or | n tripping of 33 k | Azure 41 tripped on tripping of 33 kV ICT on Over Voltage | -age | | |
| | | RENEW SOLAR POWER Pvt. Ltd. Bhadla | 50 | HUAWEI | 2 | 3/0 | | | 0 | ,000 | - | r | ٥ | TYPERITY OF THE PERITY I | - |
| | | AZURE POWER INDIA Pvt. Ltd., Bhadla | 200 | SUNGROW/ TMEIC | AKEPK I | 0.05 | - T- | SII | 6 | 0%// | 1 |) - | 7 | LVKI Non-Computant | Fartially |
| | | TPREL (Chhayan) | 300 | TMEIC/SUN GROW | TPREL_IP | 0.64 | 1.17 | 291 | 291 | 100% | -42 | -15 | -27 | Compliant | Partially |
| | | SB ENERGY FOUR PRIVATE LIMTED, Bhadla | 200 | КЕНПА | at viaits | 12.0 | 71 | 205 | 303 | 7009 | - | \$1 | | I VDT Non Compliant | Dortiolly |
| | | Clean Solar Power (Bhadla) Pvt. Ltd | 300 | SUNGROW | T-CNIOS | 0.71 | 1.14 | 700 | coc | 8/00 | T | 51 | n | LVKI Non-Compinant | ratuany |
| _ | | Azure Power Thirty Four Pvt. Ltd. | 200 | TMEIC | APTFL_IP | | | | | | PMU Data Down | u, | | | |
| | | Clean Solar Power (Jodhpur) Pvt. Ltd. | 250 | SUNGROW | CSPJP_IP | 0.61 | 1.16 | 250 | 50 | 20% | 1 | 15 | -13 | LVRT Non-Compliant | Partially |

| | | | | | Sta | atus of I | RE Plan | ts at 765 | Status of RE Plants at 765 kV Bhadla 2 (PG) | 1 2 (PG) | | | | | |
|------|---------------|---|-------------------------------|-----------------------|----------|--|---|--------------------------|---|---|-----------------------------|------------------------------------|---|-------------------------|---|
| | | | | | | | | Ac | Active Power (MW) | | Re | Reactive power (MVAR | IR | | , |
| S.No | Connected at | Name of SPPD/Generator | Installed Capacity (MW) | Inverter/ WTG Make | PMU Code | Voltage (Fault instant) at POI (PU) | Highest Voltage recorded at POI (PU) | Before at (12:57:22.560) | After One second Recovered (12:57:23.560) immediately after fault | Percentage Recovered immediately after fault | Before at (12:57:22.560) | At fault Instant (12:57:22.580) | Immediately after fault clearance (12:57:27.960) | HVRT/LVRT Compliance | Keactive Power Support during fault condition (partially, fully, non-complaint) |
| 1 | | Mega Suryaurja Private Limited (MSUPL) | 250 | SINENG | MSUPL_IP | 1 | 1.13 | 241 | 255 | 106% | -2 | 3.2 | -2 | Compliant | Partial |
| 2 | | ACME Heergarh Powertech Private Limited (AHPPL) | 300 | SUNGROW/ SINENG | AHPPL_IP | 0.98 | 1.12 | 257 | 235 | 91% | 0.2 | -16 | 11 | Compliant | Opposite Response |
| 3 | | ABC Renewable Energy (RJ-01) Private Limited (ABCRL) | 300 | TBEA | ABCRL_IP | 1 | 1.13 | 294 | 265 | %06 | 51 | 14 | 35 | Compliant | Opposite Response |
| 4 | 765 kV Bhadla | NTPC Kolayat_1 | 250 | KFHIIA | SKBSL_NT | 1.01 | 1.13 | 400 | 255 | 64% | 1.15 | -38 | 48 | LVRT-Non Complaint | Opposite Response |
| 5 | 2 (PG) | NTPC Kolayat_2 | 350 | | SKBS2_NT | 1.09 | 1.13 | 154 | 1111 | 72% | 155 | 120 | 151 | LVRT-Non Complaint | Opposite Response |
| 6 | | Avaada Sunrays Pvt. Ltd. | 320 | | ASEPL_IP | 1 | 1.13 | 333 | 330 | %66 | 1.3 | -18 | -5 | Compliant | Opposite Response |
| 7 | | NTPC Nokhra | 300 | SINENG | Nokra NT | 86.0 | 1.12 | 258 | 171 | %99 | 13 | -21 | - | I VRT-Non Complaint | Opposite |
| .] | | | | TBEA | 1 | | | | : | | | i | : | | Response |

| | | | | | S | tatus of | f RE Plai | nts at 765 | Status of RE Plants at 765 kV Bikaner (PG) | er (PG) | | | | | |
|------|---------------|--|------------------|-----------|----------|----------------------|--------------------|-----------------------------|--|---|--------------------------|------------------------------------|---|------------|---|
| | | | Installed | Inverter/ | | Voltage | Highest Voltage | ¥ | Active Power (MW) | | , ä | Reactive power (MVAR | чR | HVRT/LVRT | Reactive Power Support during |
| S.No | Connected at | Name of SPPD/Generator | Capacity (MW) | WTG Make | PMU Code | instant) at POI (PU) | <u> </u> | Before at (12:57:22.560) | After One second (12:57:23.560) | Percentage Recovered immediately after fault | Before at (12:57:22.560) | At fault Instant (12:57:22.580) | Immediately after fault clearance (12:57:27.960) | Compliance | fault condition (partially, fully, non-complaint) |
| 1 | | Avaada RJHN_240MW | 240 | SINENG | | | | | | | | | | | disconnection |
| 2 | | Avaada sunce energy Pvt limited | 350 | SINENG | AVADA_IP | 1.01 | 1.1 | 893 | 006 | 101% | -12 | -40 | 14 | Compliant | Opposite |
| Э | | Avaada Sustainable RJ Pvt. Ltd. | 300 | SINENG | | | | | _ | | | | | | response |
| 4 | | Ayana Renewable Power | 300 | SUNGROW | AYANA_IP | 1 | 1.08 | 320 | 331 | 103% | 0.88 | 7- | 6 | Compliant | Opposite Response |
| 2 | | Azure Power | 009 | SUNGROW | AZR43_IP | 1.01 | 1.1 | 009 | 009 | 100% | -21 | -25 | 24 | Compliant | Opposite Response |
| 9 | 765 kV | SBSR Power Cleantech Eleven Private Limited (SPCEP) | 300 | KEHUA | SPCEP_IP | | | | | | PMU Data Down | Ę | | | |
| 7 | Dikalier (PG) | Thar Surya 1 Private Limited (TS1PL) | 300 | GAMESA | TS1PL_IP | 66:0 | 1.09 | 291 | 290 | 100% | 0.95 | £- | 4 | Compliant | Opposite Response |
| 8 | | Renew Surya Ravi Private Limited Bikaner (RSRPL) | 150 | SUNGROW | RSRPL_IP | 1.01 | 1.1 | 300 | 300 | 100% | 2.57 | 6- | 43 | Compliant | Opposite Response |
| 6 | | Renew Solar Power Pvt Ltd, Bikaner (250MW) (BIKNP) | 250 | HUAWEI | BIKNR_IP | 1 | 1.09 | 253 | 242 | %96 | 30 | 50 | <i>L</i> - | Compliant | Opposite Response |
| 10 | | Tata Power Green Energy Ltd. (TPGEL) | 225 | SUNGROW | TPGEL_IP | 66:0 | 1.09 | 231 | 231 | 100% | 6- | 6.0 | -1.8 | Compliant | Partial Response |

| | , | HYRT/LYRT Support during Support during Fault condition (partially, fully, non-complaint) | Slow Recovery Capposite response | Compliant Partial | Slow Recovery Opposite response | Compliant Partial | Compliant Opposite response |
|---|----------------------|--|--|--------------------------------|---------------------------------|----------------------------------|----------------------------------|
| | | Immediately after fault clearance (12:57:27.960) | 1.1 SI | 12 | ls 9 | -13 | 1 |
| | Reactive power (MVAR | At fault Instant (12:57:22.580) | 8- | 47 | 30 | 3.44 | -11 |
| (ii | Rea | Before at (12:57:22.560) | 7 | 44 | 53 | 2.88 | 1.98 |
| h (Adar | | Percentage Recovered immediately after fault | 84% | %86 | 87% | 94% | 91% |
| Status of RE Plants at 400 kV Fatehgarh (Adani) | Active Power (MW) | After One second Recovered Before at (12:57:23.560) immediately (12:57:22.560) after fault | 251 | 245 | 297 | 7.7 | 5.2 |
| at 400 k\ | Y | Before at (12:57:22.560) | 299 | 250 | 341 | 8.2 | 2:5 |
| E Plants | | Highest Voltage recorded at POI (PU) | 1.15 | 1.15 | 1.15 | 1.14 | 1.12 |
| us of RI | | Voltage (Fault instant) at POI (PU) | 0.88 | 0.87 | 0.87 | 0.88 | 1.05 |
| Stat | | PMU Code | SPRJ_NT | ASPS1_IP | ASPS2_IP | AWPS1_IP | AWPS2_IP |
| | | Inverter/ WTG Make | HUAWEI | HUAWEI | HUAWEI | Suzlon WTG/Sieme ns Gamesa | WTG |
| | | Installed Capacity (MW) | 15 | 250 | 350 | 250 | 260 |
| | | Name of SPPD/Generator | SINGRAULI SOLAR PV POWER STATION (SPRJ) | Adani Solar Park PSS-1 (ASPS1) | Adani Solar Park PSS-2 (ASPS2) | Adani Wind Park PSS-3 (AWPS1) | Adani Wind Park PSS-4 (AWPS2) |
| | | Connected at | | | 400 kV | (Adani) | |
| | | S.No | 1 | 2 | ĸ | 4 | 2 |

| | | | | | Ś | tatus of | RE Plan | ts at 765 k | Status of RE Plants at 765 kV Fatehgarh II (PG) | II (PG) | | | | | |
|------|------------------------|--|-------------------------------|--------------------------|----------|-----------------------------|------------------------------------|-----------------------------|---|---|-----------------------------|------------------------------------|---|---|---|
| | | | | | | Voltage | Highest | A | Active Power (MW) | | Re | Reactive power (MVAR | 1R | | Reactive Power |
| S.No | Connected at | Name of SPPD/Generator | Installed Capacity (MW) | Inverter/ WTG Make | PMU Code | (Fault instant) at POI (PU) | Voltage recorded at POI (PU) | Before at (12:57:22.560) | After One second (12:57:23.560) | Percentage Recovered immediately after fault | Before at (12:57:22.560) | At fault Instant (12:57:22.580) | Immediately after fault clearance (12:57:27.960) | HVRT/LVRT Compliance | Support during fault condition (partially, fully, non-complaint) |
| 1 | | Renew Sun Bright Private Limited (RSBPL) | 300 | HUAWEI | RSBPL_IP | 0.99 | 1.13 | 294 | 250 | 85% | 33 | 47 | - | Slow Recovery | Partial |
| 2 | | Adani Hybrid Energy Jaisalmer Two Limited (AHEJ2) | 300 | SUNGROW | AUED IB | y C | 7 | OGC | 175 | /803 | ü | o | 9 7 | tacilamo) aoN TG// I | Opposite |
| 3 | | Adani Hybrid Energy Jaisalmer Two Limited (AHEJ2): Wind | 29 | Suzlon WTG | 771112 | 5 | CTIT | 062 | | 88 | | ŗ. | 9 | LVA INOITAGE | Response |
| 4 | | Adani Hybrid Energy Jaisalmer Three Limited (AHEJ3) | 300 | ТВЕА | AUER IB | 000 | 7 | S S | 750 | /000 | 7 | ç | C | tacilamo) aoN TG// I | Opposite |
| 2 | | Adani Hybrid Energy Jaisalmer Three Limited (AHEJ3): Wind | 43 | Suzlon WTG | 3 | 9 | CT: | 9 | 062 | 8/50 | - | 71. | 2 | LVA I NOTICE I INCIDENTIALIS | Response |
| 9 | | Adani Hybrid Energy Jaisalmer One Limited (ADNHB) | 360 | HUAWEI | | | | | | | | | | | |
| 7 | 765 kV Fatehgarh II | Adani Hybrid Energy Jaisalmer One Limited (ADNHB): Wind | 100 | Siemens Gamesa WTG | ADNHB_IP | 0.98 | 1.14 | 358 | 338 | 94% | 20 | 22 | 1 | Compliant | Partial |
| 8 | (bd) | Eden Renewable Cite Private Limited (EDEN) | 300 | SUNGROW | EDEN_IP | 96:0 | 1.14 | 310 | 324 | 105% | 49 | 52 | -5 | Compliant | Partial |
| 6 | | ReNew Solar Energy Jharkhand Three Pvt. Ltd (RJ3PL) | 300 | HUAWEI | RJ3PL_IP | 96:0 | 1.14 | 300 | 272 | 91% | -0.3 | 1.13 | 6 | Compliant | Opposite Response |
| 10 | | ReNew Solar Urja Private Limited(RSUPL) | 300 | SUNGROW/ TBEA | RSUPL_IP | 0.99 | 1.14 | 280 | 241 | %98 | 69 | 59 | -27 | LVRT Non-Compliant | Opposite Response |
| 11 | | ReNew Sun Waves Private Limited, Fatehgarh-II (RNEWJ) | 300 | SUNGROW | RNEWJ_IP | 0.97 | 1.13 | 289 | 73 | %57 | 37 | 30 | -11 | LVRT Non-Compliant | Opposite Response |
| 12 | | NTPC Devikot Solar Plant | 240 | TBEA | DVKOT_NT | 0.97 | 1.13 | 225 | 140 | %29 | 1.12 | 3.02 | -47 | LVRT Non-Compliant | Partial |
| | | | | | | | | | | * PC | II is at 220 kV Fa | tehgarh II PG. Here | we have PMU da | * POI is at 220 kV Fatehgarh II PG. Here we have PMU data from 220 kV plant end of dedicated line | of dedicated line |

| | nnexure -1 | | | | | | | |
|---------|------------|--------|---|--|-------------------|-------------------|----------|-----------|
| | | | | | error to | | | |
| SI. No. | Timeframe | Region | Transformers Upcoming 11 | ransmission projects as Voltageratio (kV) | No. oftransformer | Approx no of SEMs | ansforme | ationcapa |
| 1 | 2023-24 | NR | Augmentation with 765/400kV,1x1500 MVA Transformer(5th) at Fa | | 1 | 0 | 1500 | 1500 |
| 2 | 2023-24 | NR NR | Augmentation with 765/400kV.1x1500 MVA Transformer(6th) at Fa | 765/400 | i | 0 | 1500 | 1500 |
| 3 | 2023-24 | NR | Augmentation with 400/220kV, 4x500 MVA Transformer(6th to 9th | 400/220 | 4 | 0 | 500 | 2000 |
| 4 | 2023-24 | NR | Augmentation with400/220kV.3x500MVATransformer (6th to 8th) | 400/220 | 3 | 0 | 500 | 1500 |
| 5 | 2023-24 | NR | Augmentation with 765/400kV .1x1500 MVAtransformer (4th) at B | 765/400 | 1 | 0 | 1500 | 1500 |
| 6 | 2023-24 | NR | Establishment of 400/220kV, 4x500 MVA at Ramgarh- II PS | 400/220 | 4 | 8 | 500 | 2000 |
| 7 | 2023-24 | NR | Establishment of 765/400kV, 2x1500 MVA at Sikar – II | 765/400 | 2 | 4 | 1500 | 3000 |
| 8 | 2023-24 | NR | 1x 500 MVA, 400/220 kV ICTat Kurukshetra (PG) S/s | 400/220 | 1 | 2 | 500 | 500 |
| 9 | 2023-24 | NR | 1x 500 MVA, 400/220 kV ICTat Patiala (PG) S/s | 400/220 | 1 | 2 | 500 | 500 |
| 10 | 2023-24 | NR NR | Shifting and installation of 400/220 kV, 315 MVA ICT at Bhinmal (PC | 400/220 | i | 2 | 315 | 315 |
| 11 | 2023-24 | NR NR | Establishment of 765/400kV, 3X1500 MVA GISsubstation at Nare | 765/400 | 3 | 6 | 1500 | 4500 |
| 12 | 2023-24 | NR. | Augmentation with400/220kV, 1x500MVATransformer at Fatehgar | 400/220 | 1 | 0 | 500 | 500 |
| 13 | 2023-24 | NR | Augmentation with 400/220kV, 1x500MVATransformer at Bikaner F | 400/220 | 1 | 0 | 500 | 500 |
| 14 | 2024-25 | NR | Augmentation with1x500MVA, 400/220kVtransformer (3rd) at400/ | 400/220 | 1 | 2 | 500 | 500 |
| 15 | 2024-25 | NR | Establishment of 2x500 MVA400/220 kV pooling stationat Fatehga | 400/220 | 2 | 0 | 500 | 1000 |
| 16 | 2024-25 | NR | Augmentation of 3x500MVA400/220 kV poolingstation at Fatehgar | 400/220 | 3 | 0 | 500 | 1500 |
| 17 | 2024-25 | NR | Establishment of 2x1500MVA 765/400kV at Bhadla-3 | 765/400 | 2 | 0 | 1500 | 3000 |
| 18 | 2024-25 | NR | 3x500 MVA 400/220 kVpcoling station at Bhadla-3 | 400/220 | 3 | 0 | 500 | 1500 |
| 19 | 2024-25 | NR | Augmentation of 7x500MVA 400/220 kVtransformation capacity at | 400/220 | 7 | 0 | 500 | 3500 |
| 20 | 2024-25 | NR | Establishment of 2x1500MVA 765/400kV at Ramgarh | 765/400 | 2 | 4 | 1500 | 3000 |
| 21 | 2024-25 | NR | 2x500 MVA 400/220 kVpooling station at Ramgarh | 400/220 | 2 | 4 | 500 | 1000 |
| 22 | 2024-25 | NR | Augmentation of 1x1500MVA 765/400kV at RamgarhPS | 765/400 | 1 | 2 | 1500 | 1500 |
| 23 | 2024-25 | NR | Establishment of 3x1500MVA 765/400kV atFatehgarh-3(new sect | 765/400 | 3 | 0 | 1500 | 4500 |
| 24 | 2024-25 | NR | 3x500 MVA 400/220 kVpooling station atFatehgarh-3(new section) | 400/220 | 3 | 0 | 500 | 1500 |
| 25 | 2024-25 | NR | Augmentation of 3x1500MVA 765/400kV atFatehgarh-3(new section | 765/400 | 3 | 0 | 1500 | 4500 |
| 26 | 2024-25 | NR | 2x500 MVA 400/220 kVpcoling station atFatehgarh-3(new section) | 400/220 | 2 | 0 | 500 | 1000 |
| 27 | 2024-25 | NR | Establishment of2x1500MVA 765/400kVSubstation at suitableloca | 765/400 | 2 | 4 | 1500 | 3000 |
| 28 | 2024-25 | NR | Establishment of 2x1500MVA 765/400kV substational suitable loc | 765/400 | 2 | 4 | 1500 | 3000 |
| 29 | 2024-25 | NR | Augmentation with 400/220kV, 1x500MVATransformer (10th) at Fat | 765/400 | 1 | 0 | 1500 | 1500 |
| 30 | 2024-25 | NR | Augmentation with 765/400kV, 1x1500MVATransformer (5th) at Bh | 765/400 | 1 | 0 | 1500 | 1500 |
| 31 | 2024-25 | NR | Augmentation with 765/400kV, 1x1500MVATransformer (3rd) at Bi | 765/400 | 1 | 0 | 1500 | 1500 |
| 32 | 2024-25 | NR | Augmentation of 1x1500MVA ICT (3rd), 765/400kVICT at Jhatikar | 765/400 | 1 | 2 | 1500 | 1500 |
| 33 | 2024-25 | NR | Augmentation with1x500MVA, 400/220kVtransformer (3rd) at400/ | 400/220 | 1 | 2 | 500 | 500 |
| 34 | 2024-25 | NR | Replacement of 1x315 MVA400/220kV ICT (ICT-1) at400/220 kV | 400/220 | 1 | 2 | 185 | 185 |
| 35 | 2024-25 | NR | Replacement of 1x250 MVA,400/220 kV ICT to 500 MVAat 765/40 | 400/220 | 1 | 2 | 250 | 250 |
| 36 | 2024-25 | NR | Augmentation of Transformation Capacity by 1x500 MVA, 400/220k | 400/220 | 1 | 2 | 500 | 500 |
| | | | | | Total | 54 | | |

| | T | | Section A1. Status of the Renewable Generation Projects | granted LTOA/ LTA a | s per CTUIL website |
|------------|--|---------------------|--|-----------------------|--|
| SL. No. | St-II & | LTA Quantum (MW) | Gen Comm. Schedule/Date from which connectivity required (as per St-II/connectivity Intimation) | Approx. SEMs required | Gen Comm. Schedule (As per previous Meeting) |
| 1. | LTA ACME Solar Holdings Limited | 300 | 19-Oct-2020 | | 300MW 25.09.2023 |
| | (Stage-II: 1200001602) LOA (SECI) | | | | (Changed in meeting) |
| | LOA (SECI) LTA: | | | | |
| | LTA: 300 MW | | | , | |
| 2. | (1200001664) Eden Renewable Passy | 300 | 31.03.2022 or | - | 30-Jan-2024 |
| | Private Limited (St-II: 1200002629) | | availability of Tr. Whichever is later | | |
| | "LOA NHPC." | | | | |
| 3. | LTA (1200002890) SBE Renewables Sixteen | 180 | 11.08.2021 or | | BOMW: |
| | Private Limited (Stage-II: 1200002450) | | system whichever is later | | 30.11.2023 |
| | "LOA | | | | 100MW: 31.12.2023 |
| | (SECHSTS V)" LTA: (1200002656) | | | 3 | |
| 4. | (1200002656) NTPC Limited (St-II 1200002339) | 150 | 29-Jul-2021 | , | 30-Sep-2022 |
| 5. | Azure Power India Private Ltd | 500 | 07.04.2024 or | Ť | 11-Nov-2024 |
| | (1200002400) "LOA SECI (Manufacturing)" | | system whichever is later | | |
| 6. | Eden Renewable Bercy | 300 | 13.04.2022 or | 3 | 28-Feb-2025 |
| | Private Limited (1200002688) | | system whichever is later | | |
| | "LOA SECI (ISTS IX)" | | | | |
| 7. | LTA: 1200003947 Adani Renewable | 500 | 01.07.2021 or | 3 | 31-Oct-2024 |
| | Energy Holding Four | | system | | |
| tehgarl | Limited | | whichever is later | | |
| 8. | Renew Surva Vihaan | 200 | 31.03.2022 or | | 31-Dec-2023 |
| | Private Limited (Stage- II: 1200002590) "LOA SECI (ISTS VIII)" | | system whichever is later | 3 | |
| 9. | Altra Xergi Power Private Limited (Stage- II: | 380 | 15.02.2022 or system whichever is later | | 31-Dec-2023 |
| | 1200002637) | | ayatem windrever is kiter | | |
| | "LOA NHPC " LTA: (1200002639) | | | 3 | |
| 10. | SBE Renewables | 600 | 01.03.2022 or | | 320MW: |
| 11. | Seventeen Private Limited | | system whichever is later | | 31-Mar-2024 |
| 13. | (Stage-II 1200002635) | | William Control of the Control of th | 3 | 280MW: |
| 14. | ReNew Surya Aayan Private Limited (St-II 1200002692) | 300 | 13/04/22 or availability of Tr. Whichever is later | 3 | 30-Nov-2023 |
| 15. | ReNew Surya Vihaan Private Limited | 100 | 13,04,2022 or system whichever is later | | 30-Nov-2023 |
| | /4200000280E) | 100 | 31.01.2022 or | 3 | 200MW: |
| 16. | ABC Renevable Energy Private | 400 | system | | 30.03.24 |
| | Limited | | whichever is later | | 200MW: 29.06.24 |
| | 1200002699 "LOA NHPC " | | | 3 | 20,00,27 |
| 18. | NHPC " Renew Surya Roshni Private Limited | 400 | 01/08/2022 or availability of following ISTS whichever is later | | Oct'23 |
| | 1200002628 | | | | |
| | "LOA SECI (RTC)" LTA 1200003269 | | | 3 | |
| 19. | | 500 | 07.04.2025 or | | 11-Nov-2024 |
| | Azure Power India Private Ltd (1200002402) | | system whichever is later | | |
| | "LOA SECI (Manufacturing)" LTA: | | | | |
| | (1200003678) | | | 3 | |
| 20. | IB VOGT Solar Seven Private Limited | 300 | 05.04.2022 or system whichever is later | | 31-Dec-2024 |
| | (1200002700) "LOA SECI (ISTS IX)" | | · | | |
| | LTA: (1200003931) | | | 3 | |
| 21. | Azure Power India Pvt. Ltd. (1200002812) "LOA | 500 | 19,01,2024 or system whichever is later | | 11-Nov-2025 |
| | SECI | | -/ | | |
| | (Manufacturing)* LTA: (1200003679) | | | 3 | |
| 22. | (1200003679) Azure Power India Pvt. | 500 | 19,01,2024 or system whichever is later | | 11-Nov-2025 |
| | Ltd. (1200002813) SECI (Manufacturing | | system windnever is later | | |
| | LOAV | | | 3 | |
| 23. | LTA: (1200003680) Azure Power India Pvt. | 500 | 19.01.2025 or | , | 11-Nov-2026 |
| | Ltd. (1200002814) SECI (Manufacturing | | system whichever is later | | |
| | LOA) | | | | |
| 24. | LTA: (1200003681) Azure Power India Private Limited | 100 | 06-Aug-2023 | 3 | 31-Dec-2024 |
| | Private Limited 1200003532 | .50 | - | | |
| | LOA SECI LTA: 0412100002 | | | | |
| 25. | | 1500 | 30.06.2022 or | 3 | 500MW: |
| 25. | Holding Four Ltd. (erstwhile Adani Green | 1500 | system whichever is later | | 30.08:24 500M/V- |
| | (erstwhile Adani Green Energy Four Limited) | | | | 500MW- 31.10.24 |
| | Stage-II: 1200002683 | | | | 500MW- |
| | | | T. Control of the con | | 30.11.24 |
| | "LOA SEC-I (Manufacturing)" | | | | |
| | "LOA SEC-I (Manufacturing)" LTA: (1200003686) LTA: (1200003687) | | | | |

| 26. | XL Xergi Power Pvt. | 400 | | | |
|--|--|--|--|--|--|
| | (Stage-II: 1200002847) L&FC | 400 | 31.05.2022 or system whichever is later | | 200MW: 18.01.2024 200MW: |
| Fatehgari | LTA: 0412100007 | | | 3 | 11.06.2024 |
| 27. | ABC Renewable Energ Pvt Ltd 1200003002 "LOA SECI (Hybrid TrIII)" LTA:1200003531 | 380 | 30-Jun-2022 | 3 | 31-Aug-2024 |
| 28. | Amp Energy Green Private Limited 1200003022 "LOA SECI (Hybrid TrIII)" LTA: (1200003416) | 130 | 30-Sep-2022 | 3 | 31-Dec-2024 |
| 29. | ReNew Dinkar Jyoti Private Limited | 100 | 30-Jun-2024 | 3 | 30-Jun-2024 |
| Bhadla | | 100 | IAA DA DODD | | |
| 30. | AMP Energy Green Private Limited (1200002676) "LOA (SECI) ISTS-IX" LTA: (1200003882) | 100 | 11.04.2022 or system whichever is later | 3 | 31-Mar-2024 |
| Bikaner i 31 | Private Limited 1200003380 L&FC | 200 | 30.04.2023 or avalability of following ISTS, whichever is later | | 31-Mer-2024 |
| 32. | LTA: (1200003935) ACME Solar Holdings Pvt. Ltd. 1200003683 LOA MSEDCL | 300 | Final 25.11.2023 | 3 | 03-Oct-2023 |
| 33. | LTA: (1200003829) One Volt Energy Private Limited 1200003826-100MW | 62 | 30-Jun-2023 | 3 | 30-Aug-2023 |
| 34. | "L&FC NHPC Limited 1200003915 "LOA (IREDA)" LTA 0412100006 | 300MW | 29.02.2024 (Interim) | 3 | 29-Feb-2024 |
| 35. | Juniper Green Cosmic Private Limited 1200003740 L&FC LTA: 0412100008 | 100 | 31-Jan-2025 | 3 | 31-Jan-2025 |
| 36. | Adani Renewable Energy Holding Four Ltd. (erstwhile Adani Green Energy Four Limited) Stage-II: 1200002682 SECI (Manufacturing LOA) LTA: (1200003688) | 1500 | 01-Dec-2025 | 3 | 900MW: 30098/025 500MW: 31108/025 500MW: 3011/2025 |
| 37. | Adani Hybrid Energy Jaisalmer Five Limited 1200003073 "LOA SECI (Hybrid TrIII)" LTA: | 600 | 15/09/2022 or availability of following ISTS whichever is later | | 300MV 31.05.24 300MV 30.06.24 |
| 38. | (1200003405) Adani Renewable Energy Holding Four Limited (erstwhile Adani Green Energy Four Limited) (1200002432) (Manufacturing LOA SECI) | 500 | 30.09.2022 or system whichever is later | 3 | 36-Jun-2024 |
| Sec | tion A2: Renewable | Generation Proje | ects granted only Stage-II Connectivity | 3 | |
| Fatehga 39. | rh-III Renew Surva Jvoti | 210 | 31-Dec-2024 | | Generation: 31.12.2024 |
| | Private Limited (1200002746) | 210 | 31 500 2027 | 3 | V. 1 & A. |
| 40. | Renew Surya Pratap Private limited | 210 | 31-Dec-2024 | | Generation: 31/12/24 |
| 41. | (1200002778) L&A | | | 3 | Dedicated system: Common Pooling Station of ReNew Surya Jyoti Pvt. Ltd. |
| | | | | | Sclar Power Plant (210MW) & ReNew Sunya Pratap Pvt. Ltd. Sclar Power Plant (210MW) at ReNew Sunya Jyoti — Fatehgarh-III PS 220 kV S/c line (suitable to carry 420 MW at nominal voltage) 15/12/24 |
| 42. | Azure Power India Pvt. | 500 | 11-Nov-2026 | 3 | Sclar Power Plant (210MV) 3 ReNew Surya Protap Pvt. Ltd. Sclar Power Plant (210MV) 4 ReNew Surya Jyoti — Fatehparh-III PS 220 kV S/c Ine (suitable to carry 420 MV at nominal voltage) 15/14/24 Generation: |
| 42. | Azure Power India Pvt. Ltd. Energizent power private limited. (Stage-II) | 500 125 | 11-140+-2026 31-Mar-2025 | 3 | Sclar Power Plant (210MW) & ReNew Sunya Pratap Pvt. Ltd. Sclar Power Plant (210MW) at ReNew Sunya Jyoti — Fatehgarh-III PS 220 kV S/c line (suitable to carry 420 MW at nominal voltage) 15/12/24 |
| | Azure Power India Pvt. Ltd. Energizent power private limited. (Stage-III: 1200002907) Energizent Power Private Limited 1200002939 | | | 3 | Sclair Power Plant (2/10M/) & Rehlew Surye Protaip PV, Ltd. Sclair Power Plant (2/20M/) at Rehlew Sury July — Fisiehgarh-III PS 220 kV Sic Ine (suitable to carry 400 MV at nominal voltage) 15/12/24 Generation: Generation: |
| 43. | Azure Power India Pvt. Ltd. Energizent power private Imitted. (Stage-III 1200002907) Energizent Power Private Limitted 1200002939 L&PC | 125 | 31-Mar-2025 | 3 3 | Sciar Power Plant (210M/s) & Refleve Surye Pridap Pvt. Ltd. Sciar Power Plant (210M/s) & Refleve Surye Puth Ps 220 W Sic line (suitable to 420 MW at nominial voltage). 15/12/24 Generation: Generation: 31.03.2025 Generation: 30.08.2025 |
| 43. | Azure Power India Pvt. Ltd. Energizent power private limited. (Stage-II. 1200002907) Energizent Power Private Limited Energizent Power Private Limited Limited ABC RJ Land 01 Private Limited | 125 | 31-Mar-2025 | 3 3 | Scale Power Plant (210M/s) & Refleve Surye Pridap Pvt. Ltd. Scale Power Plant (210M/s) & Refleve Surye Pute Taethgain-III PS 220 W Sic line (suitable to 420 MW at nominal voltage). 15/12/24 Generation: |
| 43. 44. Fatehga | Azure Power India Pvt. Ltd. Energizent power private limited. (Stage-III: 1200002907) Energizent Power Private 1200029308 128702 | 125 80MW | 31-Mar-2025 30-Jun-2025 | 3 3 3 | Sclar Power Plant (210M/s) & Referen Surye Pridap Pvt. Ltd. Sclar Power Plant (210M/s) & Referen Surye Puter Technique-Hill PS 220 W Sic line (suitable to carry Carry M at nominal voltage). 15/12/24 Generation: |
| 43. 44. Fatehga 45. 46. | Azure Power India Pvt. Ltd. Energizent power private limited. (Stage-III. 1200002907) Energizent Power Private 1200002908 LSPC LSPC LSPC LAPC ABC AL land 01 Private Limited 1200003875 LBPC | 125 80MW 110 270 | 31-Mair-2025 30-Jun-2025 30-Jun-2024 30-Jun-2024 | 3 3 3 3 | Scale Power Plant (210M/s) & Refleve Surye Pridage Pvt. Ltd. Scale Power Plant (210M/s) & Refleve Surye Pute Technique Pvt. Ltd. Scale Power Plant (210M/s) and Refleve Surye Pute Technique Pvt. 220 M/s Sci line (suitable to 420 M/s at nominal voltage). 15/12/24 Generation: Generation: 30.08.2025 Dedicated system: Generation: 31/12/2024 Generation: 31/12/2024 Generation: 31/12/2024 |
| 43. 44. Fatehga 45. | Azure Power Indie Pvt. Ltd. Energizent power private Inmited. (Stage-III. Energizent Power Private Limited. 1 200002599 1 200002599 1 200002599 ABC RJ Land 01 Private Limited. ABC RJ Land 01 Private Limited. ABC RJ Land 01 Private Limited. Trivate Limited. Trivate Limited. | 125 80MW | 31-Mar-2025 30-Jun-2025 30-Jun-2024 | 3 3 3 3 3 | Sclar Power Plant (210M/s) Refetev Surye Pridap Pvt. Ltd. Sclar Power Plant (210M/s) a Refew Surye June Tendepart-III PS 220 I/V Sic line (suitable to carry Common Power Plant (210M/s) and Power Plant (2004) Sic line (suitable to carry Common Power Plant (2004) Sic line (suitable to carry Common Power Plant (2004) Sic line (suitable to carry Common Power Plant (2004) Sic line (suitable to carry Common Power Plant (2004) Sic line (suitable to Carry (2004) Sic line (sui |
| 43. 44. Fatehga 45. 46. | Azure Power India Priv. Ltd. Ltd. Ltd. Ltd. Ltd. Ltd. Ltd. Ltd | 125 80M/W 110 270 300 | 31-Mai-2025 30-Jun-2025 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 | 3 3 3 3 3 3 | Sciar Power Plant (210M/s) & Refleve Surye Pridap Pvt. Ltd. Sciar Power Plant (210M/s) & Refleve Surye Puth PS 220 kV Sic line (suitable to SCIAM) at nominal voltage). 15/12/24 Generation: Generation: Generation: Generation: Altizazza Generation: Signature Sciam Science Sciam Science Sciam Science Sciam Science Sciam Science Sciam Science Sciam Science Sciam Scie |
| 43. 44. 45. 46. 47. 48. | Azura Power India Pr. List. Energizzer power private Interd. (Stage-In- Interd. (Stage-In | 125 80MW 110 270 300 100 | 31-Mair-2025 30-Jun-2025 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 | 3 3 3 3 3 3 3 | Scale Power Plant (210M/s) & Refered Surye Pridage Pixt. Ltd. Scalar Power Plant (210M/s) & Refered Surye Pridage Pixt. PS 220 M/s Sic line (suitable to M/s) and the PS 220 M/s Sic line (suitable to M/s) and the PS 220 M/s Sic line (suitable to M/s) and the PS 220 M/s Sic line (suitable to M/s) and the PS 220 M/s Sic line (suitable to M/s) and the PS 220 M/s Sic line (suitable to M/s) and the PS 220 M/s Sic line (suitable to M/s) and the PS 220 M/s Sic line on Directower Limited Solar Power Project Fatelings III - PS 220 M/s Sic line on Directower Generation : 30.05.2024 |
| 43. 44. Fatehga 45. 46. | Azura Power India Pvt. List. Energizzer power private Interd. (Stage-In- Interd. (Stage-I | 125 80M/W 110 270 300 | 31-Mai-2025 30-Jun-2025 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 | 3 3 3 3 3 3 3 | Scalar Power Plant (210M/s) & Referent Surya Pritago Pixt. Ltd. Scalar Power Plant (210M/s) & Referent Surya Pritago Pixt. Ltd. Scalar Power Plant (210M/s) at Referent Surya Pritago Pixt. Ltd. Scalar Power Plant (210M/s) at Referent Surya Pixt. Post Surya Pixt. |
| 43. 44. Fatehga 45. 46. 47. 48. | Azure Power Indie PM. Liuf. Energizzer power private Intented, Sitage-II (1000030207) Intented, Sitage-II (1000030207) Intented, Sitage-II (1000030207) Intented Intented II (1000030207) II (100003 | 125 80MW 110 270 300 100 | 31-Mair-2025 30-Jun-2025 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 | 3 3 3 3 3 3 3 3 | Scale Power Plant (210M/s) & Refered Surye Pridage Pixt. Ltd. Scalar Power Plant (210M/s) & Refered Surye Pridage Pixt. PS 220 M/s Sic line (suitable to M/s) and the PS 220 M/s Sic line (suitable to M/s) and the PS 220 M/s Sic line (suitable to M/s) and the PS 220 M/s Sic line (suitable to M/s) and the PS 220 M/s Sic line (suitable to M/s) and the PS 220 M/s Sic line (suitable to M/s) and the PS 220 M/s Sic line (suitable to M/s) and the PS 220 M/s Sic line on Directower Limited Solar Power Project Fatelings III - PS 220 M/s Sic line on Directower Generation : 30.05.2024 |
| 43. 44. 45. 46. 47. 48. 49. 50. | Azura Power India PA. List. Energizeri power private Innetd.; Sittage-in Innetd.; Sitt | 125 80MW 110 270 300 100 | 31-Mai-2025 30-Jun-2025 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 | 3 3 3 3 3 3 3 3 3 | Scale Power Plant (210M/s) & Refleve Surye Pridage Pixt. Ltd. Scalar Power Plant (210M/s) & Refleve Surye Pridage Pixt. PS 220 MS Six line (suitable to 420 MW at nominal voltage). 15/12/24 Generation: Generation: 30.08.2025 Dedicated system: Generation: 31112/2024 Generation: 31112/2024 Generation: 30.08.2025 Dedicated system: Generation: 31112/2024 Generation: 30.08.2024 |
| 43. 44. Fatehga 45. 46. 47. 48. 49. 50. | Acure Power India PM. ACURE Acure PM. ACUR | 125 80M/W 110 270 300 100 100 | 31-Mair-2025 30-Jun-2025 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 | 3 3 3 3 3 3 3 3 3 | Scale Power Plant (210M/s) & Refered Surya Pritage Pixt. Ltd. Scalar Power Plant (210M/s) & Refered Surya Pritage Pixt. Ltd. Scalar Power Plant (210M/s) and Refered Surya Pritage Pixt. Ltd. Scalar Power Plant (210M/s) and Refered Surya Pixt. Pixt |
| 43. 44. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. | Azure Power India Pick. Ltd. Energizent Dower India Pick. Ltd. Energizent Dower India Pick. Energizent Dower Pindel Linetad Li | 125 80MWV 110 270 300 100 100 100 100 200 100 | 31-Mair-2025 30-Jun-2025 30-Jun-2024 | 3 3 3 3 3 3 3 3 3 3 3 | Scalar Power Plant (210M/s) & Review Surye Pratego Pivt. Ltd. Scalar Power Plant (210M/s) & Review Surye Judy - Techniquin-III PS 220 I/V Sic line (suitable to L20 M/s) and L20 M/s and L |
| 43. 44. 45. 46. 47. 48. 50. 51. 52. 53. 54. | Azure Power India Priv. List. Energizers power private Inmidel, distaged. Energizers I Power private Inmidel, distaged. Energizers I Power Private Linsted Lin | 125 S0MW 110 270 300 100 100 100 100 100 100 | 31-Mai-2025 30-Jun-2025 30-Jun-2024 | 3 3 3 3 3 3 3 3 3 3 3 3 | Scalar Power Plant (210M/s) & Reference Surya Pratago Pivt. Ltd. Scalar Power Plant (210M/s) & Reference Surya Pratago Pivt. Ltd. Scalar Power Plant (210M/s) & Reference Surya Pratago Pivt. Ltd. Scalar Power Plant (210M/s) & Reference Surya Pivt. |
| 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. | Azure Power India Pix. Ltd. Ltd. Ltd. Ltd. Ltd. Ltd. Ltd. Ltd | 125 80MW 110 270 300 100 100 100 100 200 100 250 100 Enh, +45MW | 31-Mair-2025 30-Jun-2025 30-Jun-2024 | 3 3 3 3 3 3 3 3 3 3 3 3 3 | Scale Power Plant (210M/s) & Refleve Surye Prizap. Pkt. Ltd. Scalar Power Plant (210M/s) & Refleve Surye Prizap. Pkt. Ltd. Scalar Power Plant (210M/s) & Refleve Surye Prizap. Pkt. Ltd. Scalar Power Plant (210M/s) & Refleve Surye Prizap. Pkt. Ltd. Scalar Power Plant (210M/s) & Refleve Surye Refleve |
| 43. 44. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 56. | Acure Power India Pvt. List. Energizent power private Inmedic (Stage) Energizent Power Private Limited (Stage) Energizent (Stage) E | 125 S0M/W 110 270 300 100 100 100 200 100 250 100 Eph. +45M/W +60M/W | 31-Mair-2025 30-Jun-2025 30-Jun-2024 | 3 3 3 3 3 3 3 3 3 3 3 3 3 | Scalar Power Plant (210M/s) & Review Surya Pratago Pivt. Ltd. Scalar Power Plant (210M/s) & Review Surya Puter - Entengain-III PS 220 IV Sic line (suitable to Convertible Con |
| 43. 44. Fatehga 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. | Azure Power India Priv. List. Energizers power private Inmidel, 1982-poil. Inmidel, 19 | 125 S0MW 110 270 300 100 100 100 100 200 100 250 100 Enh. +45MW +60MW | 30-Jun-2025 30-Jun-2025 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2025 30-Jun-2025 30-Jun-2025 30-Jun-2025 30-Jun-2025 30-Jun-2025 | 3 3 3 3 3 3 3 3 3 3 3 3 | Scalar Power Plant (210M/s) & Review Surya Prizago Pivt. Ltd. Scalar Power Plant (210M/s) & Review Surya June 1 - Teachgain-Hill PS 220 MS So line (suitable to Control of Contr |
| 43. 44. 44. 45. 46. 47. 48. 50. 51. 52. 53. 54. 55. 56. | Azure Power India Priv. List. Energizers power private Inmidel, 1982-poil. Inmidel, 19 | 125 80MWV 110 270 300 100 100 100 100 200 100 250 100 Enh. +5MW +5MW +5MW | 31-Mar-2025 30-Jun-2025 30-Jun-2024 31-Jun-2025 31-Jun-2025 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | Scalar Power Plant (210M/s) & Review Surya Pratago Pivit. Ltd. Scalar Power Plant (210M/s) & Review Surya June - Techniquin-III PS 220 IV Sic line (suitable to Control of Contr |
| 43. 44. Fatchga 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. | Anum Power India PM. List. Energizer power proteil Intended, Stillage-Intended, Stillage-Intended, Stillage-Intended, Stillage-Intended, Stillage-Intended, Stillage-Intended, Stillage-Intended, Stillage-Intended Intended Inte | 125 80M/W 110 270 300 100 100 100 200 100 250 100 Enh. +45M/W +50M/W 120 (Enh.) | 31-Main-2025 30-Jun-2025 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2024 30-Jun-2025 30-Jun-2025 31-Jun-2025 31-Jun-2025 | 3 3 3 3 3 3 3 3 3 3 3 3 3 | Scalar Power Plant (210M/s) & Refelow Surya Pratago Pivit. Ltd. Scalar Power Plant (210M/s) & Refelow Surya Puter T-Endingsh-III PS 220 M Sic line (suitable to control of the control of |
| 43. 44. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 56. | Aure Power India Priv. Loss. Energizers power private Inneuer, 1999-1999. Energizers power private Inneuer, 1999-1999. Energizers Power Private Linead (120002059) Energizers Power Private Linead (120002059) Energizers Power Private Linead (120002059) Energizers Power Private Linead (120000376) Energizers Power Private Linead (120000376) Energizers Power Private Linead (120000376) Energizers Power Po | 125 80MWV 110 270 300 100 100 100 100 200 100 250 100 Enh. +5MW +5MW +5MW | 31-Mar-2025 30-Jun-2025 30-Jun-2024 31-Jun-2025 31-Jun-2025 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | Scalar Power Plant (210M/s) & Review Surya Pratago Pivt. Ltd. Scalar Power Plant (210M/s) & Review Surya June - Teachingshi-fill PS 220 MS Sic line (suitable to Carbony) and Review Surya June - Teachingshi-fill PS 220 MS Sic line (suitable to A20 MW at . nominal voltage). 15/12/24 Generation: 30.06.2025 Declicated system: Generation: 30.06.2025 Declicated system: Generation: 30.06.2024 Declicated system: Common PS of Review Samir Shadel Private Limited Solar Power Project - Faterpain - M PS 220 MS Sic line on Dict tower Generation: 30.06.2024 Declicated system: Review Solar (Shadel Five) Private Ltd.—Fatehpart-AV PS 220 kV Sic line on Dict tower (Suitable to carry minimum 400 MW at nominal of Carbony (Signated System) (Signated Syst |

| | AMP Energy Green Private Limited (1200002559) LOA SECI (ISTS VIII) | 100 | 31-Oct-2024 | 3 | Generation: 31/12/2024 |
|------------------|---|-----------------------|---|---|--|
| Bhadla II | | | | | |
| 64. | ReNew Solar Shakti Six Private Limited 1200003848 L&A | 550MW | 30-Jun-2024 | 3 | Generation 30.06.2024 Dedicated system : ReNew Solar (Shakti Six) Private Limited Solar |
| 65. | ReNew Solar (Shakti Six) Private Limited 0312100004 "L&A" | 450 | 31-Dec-2024 | , | Generation 3.1.12.0204 Dedicated system of The Memory Project — Bhadje-III PS 400 kV S ne on Didt Toxes—To be implemented by the Applicant (400 kV Ine to be diabed with Application No. 102100003848 a 0312100004) DTL.15.08.0204 Generation PS 16.88.0204 |
| 66. | Prerak Greentech Solar Private Limited (Park) 0212100003 'L&A" | 400 | 31-Dec-2024 | | Generation PS: 15.06.70/4 |
| 67. | Seven Renewable Power Pvt. Ltd. (Park) 0212100028 | 300 | First Meeting | 3 | Generation: 31.01.2025 Dedicated system : Seven Renewable Power Private Limited Solar Power Project — Bhadla- III PS 220 kV S/c line |
| 68. | "L&FC" Juniper Green Beta Pvt. Ltd. 0212100027 "L&FC" Enh Connectivity- 0312100013 | 150 +40MW | First Meeting | 3 | DTL. Generation: 31.03.2025 system : Common PS of Mis-Juniper Green Beta Pvt. Ltd 150.MW 440 and 50MW of Frugal — Bhadle-III PS 220 M Sic line on DX 220 MV line to be dubbed with Application No. 0212100023 |
| Bikaner 69. | Shikhar Surya (One) Private Limited 1200003115 | 70 | 31-Mar-2024 | | Generation : 31/03/2024 Dedicated system : Shikhar Surya (One) Private Limited Solar Power Project - Bikane 2/0 kV /Sol line on Dic tower -along with bay at generation switchyard |
| 70. | L&FC Shikhar Surya (One) Private Limited 1200003772 | 105 | 30-Sep-2024 | 3 | Generation : 30.09.2024 Dedicated system Shikhar Surya (One) Private Limited Solar Power Project — Bikaner PS 220 kV S/a (high capacity) line on D/c tower |
| 71. | L&A ReNew Solar Energy (Jharkhand Four) Private | 300 | 100 MW: 06.02.2022 | 3 | Generation: |
| 72. | (Jharkhand Four) Private Shikhar Surya (One) Pvt. Ltd. | 125 (Enh.) On 70MW | 06.02.2022 First Meeting | | Generation: 30.06.2025 Dedicated system: Shikhar Surya (One) Private Limited Solar Power Project – Bikaner |
| likaner- | (Enh.) 0312100003 | (2) 5 / 5 | | 3 | |
| 73. | Juna Renewable Energy Private Limited 1200003233 L&FC | 290 | SOMM- 10.01-24 SOMM- S | | Generation: 50MW- 10.01.24 50MW- 31.03.24 50MW- 31.03.24 10.0040-31.03.24 10.0040-31.03.24 40MW- 31.12.24 10.0040-31.24 10.0040-31.12.24 10.0040-31.12.24 10.00 |
| 74. | Khidrat Renewable Energy Private Limited 1200003390 L&FC | 300 | 100MW: 30.06/2025 200MW: 31/12/2025 | 3 | Generation PS: 31/12/023 Generation : 0.00M/. 3006/0205 200.MW: 31/12/025 Dedicated system: Khidrat Renewable Energy Private Limited Solar Power Project — Bikaner-II PS 220 kV Sic line on Dic tower DTL: 15/04/02/05 |
| 75. | Amplus Ages Private Limited 1200003624 | 100 | 31-Oct-2023 | 3 | Generation PS: 15/06/2025 Generation: 31.10.2023 Dedicated system |
| 76. | "L&FC" Grian Energy Private Limited 1200003525 L&FC | 100 | 31-Aug-2023 | 3 | Generation 30.09.2023 Dedicated system Common PS of Onevoit Energy, Grian Energy, 8 Amplus Ages Private Limited Solar Power Project of 100 MW each for Application Nos, 1200003926, 12000003926, 1200003926, 1200003926, 1200003926, 1200003926, 1200003926, 1200003926, 1200003926, 1200003926, 1200003926, 1200003926, 1200003926, 1200003926, 1200003926, 1200003926, 1200003926, 12000000000000000000000000000000000000 |
| 77. | TP Saurya Limited 1200003582 L&A | 300 | 31-Dec-2023 | 3 | S 7;000:000:004; Deskiel-in Firs 220 kV 3cm lited in 50 with the scoope of Mis- Ceneration 31.12.23 TP Saurya Limited Solar Power Project — Bikaner-II PS 220 kV Sic line on Dic tower DTL 31.12.23 (Gen. PS: 31.12.23 |
| 78. | Sprng Nirjara Energy Private Limited 1200003623 L&FC | 50 | 31-Jan-2025 | 3 | Generation : 31.01.2025 Dedicated system Sprng Nirjara Energy Private Limited Sojar Power Project — Bilkaner-II PS 220 kV Sfc line on Dic tower |
| 79. | Serentica Renewables India Pvt. Ltd. (erstwhile Sterlite Power Technologies Private Limited) 12000008578 | 100 | 01-Jul-2024 | 3 | 220 V Bay at Bikane-II-PS by the applicant DTL-3.101,2025 Generation 01,07.24 Teach V-1-0.24 Generation 01,07.24 Billionic 220MW-9-1.07.24 |
| 80. | L&FC Prerak Greentech Private Limited 1200003770 L&FC | 340 | 200M/V: 31.12.2023 140M/V: 31.12.2024 | 3 | Generation: 226/MW: 31.12.2023 144/MW: 31.12.2024 144/MW: 31.12.2024 So line on Dick Prietak Greentech Private Limited Project — Bikaner-III PS 220 kW 50 line to Dick United to Head with Application No. 1200003770) |
| 81. | ALF Solar Amarsar Private limited 120003785 "L&FC" | 400 | 30-lun-2024 | 3 | 101 30.11 23. Convertion 3.06.2024 Dedicated system: ALF Setar Amarsar Private Limited Solar Power Project — Bannear II PS 220 kV Dic Ine (220 kV line to be dubbed with Application No. 1000003831 of MA ALF 1sr 150 MW) |
| 82. | Litsolaire Energy private Limited 120003893 "L&FC" | 100MW | 31-Jan-2024 | 2 | Gen. PS: 15.06.24 Generation: 30.09.0204 Dedicated system: sharing of dedicated transmission system of M/s ReNew Dinkar U Private Limited (Appl. No. 1200003380-200 MW) — Bikamerill PS 220 kV Sic line on 10e tower |
| 83. | Sourya Manthan Renewable Energy Private Limited 0212100005 | 100 | 31-Jan-2025 | 3 | DTL - 30.09, 2024 Generation - 31.01.2025 Dedicated system : Sharing of DTL of. Mis Spring Nilipia Energy 1200003623-50 MW |
| ikaner-II 84. | "L&FC" | | | 3 | |



भारत सरकार / Government of India विद्युत मंत्रालय / Ministry of Power केन्द्रीय विद्युत प्राधिकरण / Central Electricity Authority Sewa Bhavan, R.K.Puram, New Delhi-110066

Budget Section

No. 1/1/2023-Bud(CEA)//302-1308

Date: 01/05/2023

To

| 1 1990 | |
|---|-----------------------------------|
| The Member Secretary, | The Member Secretary, |
| North Eastern Regional Power Committee, | Western Regional Power Committee, |
| NERPC Complex | F-3, MIDC Area, Marol, |
| Dong Parmaw Lapalamg, | Opp. SEEPZ, Central Road, |
| Shillong 793009. | Andheri (East), Mumbai 400093 |
| The Member Secretary, | The Member Secretary, |
| Southern Regional Power Committee | Eastern Regional Power Committee |
| Central Electricity Authority | 14, Golf Club Road, Tollygunj, |
| 29 Race Course Cross Road, | Kolkata-700033 |
| Banglore-560009 | , , |
| The Member Secretary, | 9 |
| Northern Regional Power Committee, | · |
| 18A, Qutab Institutional Area, | |
| Shaheed Jeet Singh Marg, | |
| Katwaria Sarai, New Delhi 110016 | , |

Subject: - Implementation of the recommendation of streamlining the process of fund utilization/budgetary provisions of all RPCs – Minutes of meeting chaired by Chairperson, CEA on 06.04.2023 -reg.

Sir,

The undersigned is directed to enclose herewith a copy of Standard Operating Procedure (SoP) and Minutes of the Meeting held under the Chairmanship of Chairperson, CEA on 06.04.2023 to streamlining the process of fund utilization/budgetary provisions of all RPCs, for your kind information and further necessary action.

This issues with the approval of Chairperson, CEA.

Encl.: as above.

Yours faithfully,

(Vagicharla Karthik) Deputy Director (B&A)

Copy for information to: -

- 1. PPS to Chairperson, CEA.
- 2. PS to Secretary, CEA.

वागिचर्ला कार्तिक/Vagicharla Karthik उप निदेशक/Deputy Director केन्दीय विद्युत प्राधिकरण/C.E.A. विद्युत मंत्रालय/Ministry of Power भारत सरकार/Govt. of India नई दिल्ली/New Delhi-66



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

सं. उक्षेविस/प्रशासन/509/2023/ ५३२-७ - ५३८६

दिनाँक: 24th April, 2023

Sub: Minutes of the meeting taken by Chairperson, CEA for streamlining the process of fund utilization/ budgetary provisions of all RPCs-reg

A meeting was taken by Chairperson, CEA for streamlining the process of fund utilization/ budgetary provisions of all RPCs on 06.04.2023 (10:30 AM) via video-conferencing. Minutes of the same may be found attached. This issues with approval of Chairperson, CEA.

(Reeturai Pandey)

(Reeturaj Pandey)
Assistant Secretary &
HoO

सेवा में.

- 1. Member Secretary, WRPC, Mumbai-400093.
 - 2. Member Secretary, SRPC, Bangalore-560009
 - 3. Member Secretary, ERPC, Kolkata-700033.
 - 4. Member Secretary, NERPC, Shillong-793003.
 - 5. Director (B&A), CEA, New Delhi 110066

Copy for information to: -

- 1. Chairperson, CEA, Sewa Bhawan, R. K. Puram sector 1. New Delhi 66
- 2. Secretary, CEA, Sewa Bhawan, R. K. Puram sector 1. New Delhi 66
- 3. Member Secretary, NRPC, Katwaria Sarai, New Delhi-16

Minutes of the meeting taken by Chairperson, CEA on 06.04.2023 for streamlining the process of fund utilization/ budgetary provisions of all RPCs

MS, NRPC welcomed Chairperson, CEA, Member Secretaries of RPCs, and Director (B&A), CEA.

List of participants in the meeting is attached as Annexure-I.

- MS, NRPC apprised that Central Electricity Authority (CEA) vide its order no. 17-11/16/2022-Budget/CEA/02-07 dtd. 02.01.2023 constituted the committee consisting of the following officers for streamlining the process of fund utilization/ budgetary provisions of all RPCs:
 - i. Member Secretary, NRPC, Chairman
 - ii. Member Secretary, WRPC, Member
 - iii. Member Secretary, ERPC, Member
 - iv. Member Secretary, SRPC, Member
 - v. Member Secretary, NERPC, Member
 - vi. Director/DS (B&A), CEA, Member & Convenor
- 2. Committee had meeting on 23.01.2023 under chairmanship of Member Secretary, NRPC. The meeting was attended by all committee members. Recommendation of committee are:
 - i. RPCs budget head of Salary, Leave Encashment, Allowances, LTC, Medical, DTE, and FTE may be taken from CEA as it is done currently. However, expenditure under other heads which do not impact employees salary and allowances directly such as office expenses, procurement, civil and electric works, training, workshop, meetings etc. may be done from RPC Fund.
 - ii. RPCs may formulate PSM (Payment Security Mechanism) by making Late Payment Surcharge (LPS) Rules.
 - iii. RPCs may formulate SOP (Standard Operating Procedure) for expenses to be done from RPCs fund and its audit.
 - iv. NERPC may take up the matter regarding funding of office expenses of NERPC in their board meeting for reconsideration by the constituents.
- He apprised that draft Report of committee and draft SoP was prepared by NRPC Sectt. and it was circulated to all members of the committee vide mail dtd. 11.02.2023 for comments. Comments received from SRPC, ERPC, and NERPC. No comments received from WRPC, and Director (B&A), CEA.
- 4. Based on comments received, Report and SOP has been prepared and proposed for approval.
- 5. MS, NRPC presented SOP in detail.
- 6. MS, ERPC stated that it shall be made mandatory to take approval of CEA/MoP for capital expenditure. Chairperson, CEA stated that all capital expenditure shall not require approval but expenditure like construction of new building may be done after prior approval of CEA/MoP.
- 7. MS, NEPRC raised concern that their constituents are not contributing for RPC Fund. They contribute only for expenditure for expenditures. Chairperson, CEA suggested that

he may take up the matter in their next NERPC meeting for collection of contribution amount.

- 8. After deliberation, following was decided to be included in SOP:
 - i. All expenditure of 'Salary' head shall be met by fund provided by CEA. The same shall be reimbursed by RPCs to CEA quarterly as per existing practice.
 - ii. All expenditure of heads other than 'Salary', shall be met by RPC Fund.
 - iii. RPCs shall have an standing quarterly agenda in RPC meeting regarding intimation/approval of expenditure from RPC Fund.
 - iv. CEA shall be IFD for only those budget heads (Salary) which has been allocated by CEA. For all other expenditure, approvals shall be taken in RPC meeting.
 - v. Procurement from RPC Fund shall be done from GeM portal only. Any relaxation of GeM portal may be permissible in accordance with government order/rules only.
 - vi. Internal audit shall be done by Director level official(s) (not dealing administration matters) of same RPC.
 - vii. External audit shall be done by a CA firm.
 - viii. All type of new construction/project, intended for long duration (such as construction of new building), shall be done after approval of CEA/MoP. For all kind of maintenance work, it shall be done with the approval of MS of respective RPC.
- 9. Final SOP after above inclusion is attached as Annexure-II.

Meeting ended with vote of thanks to the Chair.

CEA

- 1. Sh. Ghanshyam Prasad, Chairperson, CEA
- 2. Sh. Anand Upadhyay, Director (B&A), CEA

NRPC

- 1. Sh. Naresh Bhandari, Member Secretary, NRPC
- 2. Sh. Reeturaj Pandey, Assistant Secretary, NRPC

WRPC

1. Sh. Satya Narayan, Member Secretary, WRPC

SRPC

1. Sh. Asit Singh, Member Secretary, SRPC

ERPC

1. Sh. N. S. Mondal, Member Secretary, ERPC

NERPC

1. Sh. Kishore Jagtap, Member Secretary, NERPC

Standard Operating Procedure (SOP) For budgeting and expenditure of RPCs

1. Budget of RPCs:

- 1.1 RPCs shall decide and collect contribution amount from their member organizations after approval in committee meeting.
- 1.2 RPCs shall finalize its annual internal Budget (except Salary head) and get its approval in committee meeting. Quarterly expenditure from 'RPCs internal budget' shall be put up for intimation/approval in concerned RPCs meeting.
- 1.3 CEA shall provide budget to RPCs for 'Salary' head only.

2. Expenditure of RPCs:

- 2.1 All expenditure of 'Salary' head shall be met by budget provided by CEA. The same shall be reimbursed by RPCs to CEA quarterly in line with MoP letter no. 6/10/90-Trans dtd. 03.04.2006 (**Annexure-1**).
- 2.2 All expenditure of heads other than 'Salary', shall be met by concerned RPCs Fund.

3. Delegation of Financial Power:

3.1 Member Secretary, RPC shall have following financial powers for expenditure:

| Recurring Expenditure | Upto 10 Lakh (per case) |
|---------------------------|-------------------------|
| Non-Recurring Expenditure | Upto 25 Lakh (per case) |

- 3.2 For amount more than mentioned above, Member Secretary may incur after prior discussion and approval in respective RPCs meeting.
- 3.3 All type of new construction/project, intended for long duration (such as construction of new building) shall be done after approval of CEA/MoP. For all kind of maintenance work, it shall be done with the approval of MS of respective RPC.

4. IFD for expenditure:

4.1 CEA shall be IFD for only those budget heads (Salary) which has been allocated by CEA. For all other expenditure, approvals shall be taken in RPC meeting only.

5. Compliance of government rules:

5.1 Any expenditure from RPCs fund shall be done as per GFR and other applicable rules, guidelines and manuals of Central Government.

6. Mode and payment of procurement:

6.1 Procurement from RPC Fund shall be done from GeM portal only. Any relaxation of GeM portal may be permissible in accordance with government order/rules only.

7. Creation of Other Specific Funds:

7.1 The RPCs may create any other Fund for any specific purpose with approval of RPC committee.

8. Procedure for audit:

- 8.1 Internal audit shall be done by Director level official(s) (not dealing administration matters) of same RPC.
- 8.2 External audit shall be done from a CA Firm.

9. Amendment in SOP:

9.1 Amendment in SOP may be proposed after joint discussion by all Member Secretaries of RPCs for approval of Chairperson, CEA.

F.No.6/10/90-Trans Government of India Ministry of Power True Copy

New Delhi the 3rd April,2006

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

Subject: Reimbursement of expenditure incurred by the Regional Power Committees by their constituents.

Sir.

I am directed to refer to this Ministry's letter of even number dated the 20th March, 2006 and to say that the following may be added at the end of the second paragraph of the said letter:

"For a transition period of six months the establishment expenditure of RPC would be met out of the budget of the CEA and the same will be reimbursed by the constituent members of the RPCs. Meanwhile, the constituents of RPCs will finalise the share of expenditure to be borne by the constituents of RPCs so that the RPCs become self-financing. The expenditure meted out from the budget and contribution of share by the constituent members will be reviewed by the Ministry of Power, every quarter".

2. This issues with the approval of the Internal Finance Vide their Dy. No. 486/DS (F) dated 3.4.2006.

Yours faithfully, Sd/-

(K.V.Gopala Rao) Under Secretary to the Government of India Tel No. 2371-9710

Copy to:

- 1. Pay & Accounts Officer, Ministry of Power, New Delhi
 2. Controller of Accounts Officer, Ministry of Power, New Delhi
- Controller of Accounts, Ministry of Power, New Delhi
 Member (C. & O)
- Member (G & O), Central Electricity Authority, New Delhi
 Member Secretaries, All RPCs.

Copy also to:

PPS to Secretary (P) / PS to AS (P)/JS (A)/JS (Trans)/ JS (FA)/DS (A), Ministry of Power/US (Budget).

Annexure-VIII

Note No. #1

Attachment: Replacement of 2 Nos 13 Passenger lift installed at NRPC.pdf



केन्द्रीय लोक निर्माण विभाग दिल्ली विद्युत मंडल - 61, कमरा नं -333, तुतीय तल, पुष्पा भवन, नई दिल्ली - 110062 फैक्स-011-29962547, दूरभाष-011-29051185 ई-मेल -deleeeecd5.cpwd@nic.in eeeecd5@gmail.com

Govt. of India Central Public Works Department Delhi Electrical Division - 61, Room No. - 333, Third Floor, Pushpa Bhawan, New Delhi-110062. Fax 011-29962547 Phone 011-29051185 e-mail:- deleeecd5.cpwd@nic.in Eeeecd5@gmail.com



पत्र सं0:23(5) / दि०वि०मं०-61 / 2023-24 / 792

दिनांक :)

सेवा में.

Member Secretary Ministry of Power NRPC, New Delhi-110016.

विषयः Replacement of 2 Nos. 13 Passenger lift installed at NRPC, Qutab Institutional Area, New Delhi-110016.

उपरोक्त कार्य का प्रारम्भिक प्राक्कलन केवल 66,93,398/- रूपये का बनाकर आपके कार्यालय में प्रषासनिक अनुमोदन एवं व्यय स्वीकृति हेत् भेजा जाता है। कार्य की आवष्यकता प्राक्कलन के इतिहास में दर्षायी

अतः आपसे अनुरोध है कि इस अनुमान को प्रषासनिक अनुमोदन प्रदान करने के पश्चात् इसकी एक प्रतिलिपि इस कार्यालय में भिजवाने का कष्ट करें।

संलग्न:- प्राक्कलन दो प्रतिलिपियों में।

कार्यपालक अभियंता (वै०) दि०वि०मं०-61, के०लो०नि०वि०, भवन, नई दिल्ली।

प्रतिलिपि:-

सहायक अभियंता(वै०)-4, दि०वै०मं०-61, के०लो०नि०वि०, नई दिल्ली।

कार्यपालक अभियंता (वै०)

finak S.E. (dr.) EELS), Sr. DGMPG SIL 123

Pls take approval of MS NRPC Lo bring rulo in next NRPC neeting for approval.

| | Prelimi | nary Est | imate | | | | |
|------|--|----------|-----------|------------------|------------|-------------------------------------|------|
| | | | | | | | |
| | Name of Work:- Replacement of 2 Nos. 13 Passenger lift installed | ed at NR | PC, Qutab | Institutional Ar | ea, New De | lhi-110016 | |
| .No | Description of Items | | Quantity | Rate | Unit | Amount | Rema |
| 1 | Upgradation 13 Passenger of Lift OTIS make having following | ng | | | | | |
| | scope of work :- Replacing existing old machine with In house manufactured E- | СО | | | | | |
| | Friendly Gearless Machine | | | | | | |
| | Stops-4, (G+3) | | | | | | |
| | Speed 1mps | | | | | | |
| | Controller type ACD5-MR | | | | | | |
| | Drive - VF Regenerative (close loop) | | | | | | |
| | Gearless machine | | | | | | |
| | Up gradation of Cabin and Landing doors to SS Honeycomb Braille On all COP & LOP types | | | | | | |
| | Elegant Led Light Ceilings With Various Choice | | | | | | |
| | Independent Service (for Duplex only) | - | | | - | | |
| | Overload Device- Emergency Firemen Service | | | | - | | |
| | Emergency Car Light Unit Infrared Curtain Door Protection | - | | | | | |
| | Door Time Protection, Emergency Alarm Button | | | | | | |
| | Auto Fan Cut Off | | | | | | |
| | Extra Door Time of Lobby & Parking Door Open/Close Button | | | | | | |
| | Manual Rescue Operation | | | | | | |
| | Belt Inspection Drive | | | | | | |
| j | i/c testing, commissioning etc. complete as required. | | 2 Jobs | 2333963 | nor lob | 1667026.00 | |
| | | - | | 2333903 | per Job | 4667926.00 | MR |
| 9 | SH-II, Comprehensive Maintenance and Operation | | | | | | |
| 2 (| Comprehensive Maintenance of 2Nos. 13 Passenger lift complete | | | | | | |
| € | etc as required. | | | | | | |
| 2 | lst Year | | | | | | |
| | 2nd year | | | | | 140037.78 | |
| | Brd Year | | | | | 233396.30 | |
| | lth year | | | - | | 326754.82 | |
| 5 | th Year | | | | | 420113.34 | |
| | | | | | | 420113.34 | |
| | H-III, E.I Works | | | | 1 | | |
| L IV | finor E.I Works | | | | L.S | 500000.00 | |
| | H-IV, Rebate | | - | | - | | |
| Ci | redit for dismantled Material (To kept by the Contractor) icluding dismentling of following material. | | | | | | |
| 13 | 3 Passenger Lift | 2 | Sets | -100000.00 | Each | -200000.00 | |
| | | | | | | | |
| | | | | Total Amo | ount = | 6088228.24 | |
| | Add ESI & EPF @ | 3.94% | | | | | |
| | Add contingency @ | 5.0% | | | | 239876.19 | |
| | Add Labour Cess @ | 1.0% | | | | 304411.41 | |
| | , ida caboui Cess (b | 1.070 | | | | 60882.28 | |
| | | | | Grand T | tol - | 66.62.22 | |
| | | | | Grand To | | 66,93,398.13 | |
| | / \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | Say Rs | - | 66,93,398.00 | |
| | 11/4/ | | | | | 1. | 1 |
| | | | | | | | |
| | 6r.D/Man | | | | | | |
| | | | | | | cutive Engineer (E) DED-61, CPWD | |

| | MENT. |
|--|--|
| State : Delhi, | |
| CIRCLE : DC-6 | Branch : E& M |
| Cineta . De e | Division : DED-61 |
| Name of Work:- Replacement of 2 Nos. 13 Passenger lift installed at NRPC, Qutal | b Institutional Area, New Delhi-110016 |
| Head of Account : | |
| Detailed Head: This Prelimlanary estimate has been framed by Er. Narendra Kuma Pushpa Bhawan, New Delhi for the probabale cost of Rs. 6693398/- only including | or Khoker, Executive Engineer(E), DED-61, C.P.W.D. 5 % contingencies & 3.94% ESI & EPF. |
| REPORT | |
| History: The Preliminary Estimate amounting to Rs. 6693398/- nas been frame except civil work | d to cover the cost for the above mention work |
| A Requisition has been received from NRPC vide Letter No.: NRPC/SER/310/20. Repairing and Upgradation of 2 Nos. 13 Passenger lift installed at NRPC, Qutab Institute of the NRPC of the NR | 22/6250 Dated: 20.07.2022 for the Proposal for tutional Area, New Delhi-110016 |
| Hence Preliminary Estimate has been framed to obtain the A/A & E/S from the com | petent authority. |
| DECICN 9 CODE . The Falls . | |
| TIPARTIN & STUPP '- THE following provision has been taken under the seems of the | |
| The Existing 2Nos. Lifts (OTIS and UT make), 13-passenger lifts are installed and on traction type. Both of these 2Nos. Lift are of different make (OTIS and UT make) lift, same lifts may easy for maintenance in future. The Lift was installed in the year 1997 & completed its useful life as per CPWD Spec condition from 1 year. In this condition the maintenance cost becomes high. So, it i running. Moreover, some lift parts such as Braille on all COP & LOP types etc are re India campaign. Civil work such as pit etc to be done by Civil. Hence this PE has been prepared for Replacement of 2 Nos. 13 Passenger lift install | ne of the lift is hydraulic type & shall replaced by these are Converted into OTIS make lifts as both cification. Currently, these lifts are not in working is better to replace both of these lifts for smooth equired to meet the requirement of an accessible |
| The Existing 2Nos. Lifts (OTIS and UT make), 13-passenger lifts are installed and on traction type. Both of these 2Nos. Lift are of different make (OTIS and UT make) lift, same lifts may easy for maintenance in future. The Lift was installed in the year 1997 & completed its useful life as per CPWD Spec condition from 1 year. In this condition the maintenance cost becomes high. So, it is running. Moreover, some lift parts such as Braille on all COP & LOP types etc are re lindia campaign. Civil work such as pit etc to be done by Civil. Hence this PE has been prepared for Replacement of 2 Nos. 13 Passenger lift install 110016 All the necessary provision for the above work has been included in the estimate. | ne of the lift is hydraulic type & shall replaced by these are Converted into OTIS make lifts as both cification. Currently, these lifts are not in working is better to replace both of these lifts for smooth equired to meet the requirement of an accessible ed at NRPC, Qutab Institutional Area, New Delhi- |
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| DESIGN & SCOPE: The following provision has been taken under the scope of this varieties. The Existing 2Nos. Lifts (OTIS and UT make), 13-passenger lifts are installed and on traction type. Both of these 2Nos. Lift are of different make (OTIS and UT make) lift, same lifts may easy for maintenance in future. The Lift was installed in the year 1997 & completed its useful life as per CPWD Spec condition from 1 year. In this condition the maintenance cost becomes high. So, it is running. Moreover, some lift parts such as Braille on all COP & LOP types etc are related to the endowed by Civil. Hence this PE has been prepared for Replacement of 2 Nos. 13 Passenger lift install 110016 All the necessary provision for the above work has been included in the estimate. If from the contingencies. Rate: Market Rate. Method: By Contract after all of tenders Fime: 04 Months after getting A/A & E/S Cost: Rs 6693398/- only. F& P: Shall be arranged by the Contractor | ne of the lift is hydraulic type & shall replaced by these are Converted into OTIS make lifts as both cification. Currently, these lifts are not in working is better to replace both of these lifts for smooth equired to meet the requirement of an accessible ed at NRPC, Qutab Institutional Area, New Delhi- |
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| The Existing 2Nos. Lifts (OTIS and UT make), 13-passenger lifts are installed and on traction type. Both of these 2Nos. Lift are of different make (OTIS and UT make) lift, same lifts may easy for maintenance in future. The Lift was installed in the year 1997 & completed its useful life as per CPWD Spec condition from 1 year. In this condition the maintenance cost becomes high. So, it is running. Moreover, some lift parts such as Braille on all COP & LOP types etc are reladia campaign. Civil work such as pit etc to be done by Civil. Hence this PE has been prepared for Replacement of 2 Nos. 13 Passenger lift install 110016 All the necessary provision for the above work has been included in the estimate. If from the contingencies. Rate: Market Rate. Method: By Contract after all of tenders Fime: 04 Months after getting A/A & E/S Cost: Rs 6693398/- only. The P: Shall be arranged by the Contractor | ne of the lift is hydraulic type & shall replaced by these are Converted into OTIS make lifts as both cification. Currently, these lifts are not in working is better to replace both of these lifts for smooth equired to meet the requirement of an accessible ed at NRPC, Qutab Institutional Area, New Delhi- |

Status of Contribution towards NRPC Fund for the year 2022-23 by the Constituents

Table-I

| S. No. | Name of Constituents who were requested to pay NRPC contribution fees. | Status of payment |
|--------|--|---|
| 1 | Prayagraj Power Generation Co. Ltd. | Amount Rs 10 Lacs Received within due date |
| 2 | Dakshinanchal Vidyut Vitran Nigam Limited | Amount not received |
| 3 | BSES Rajdhani Power Ltd. | Amount Rs 10 Lacs Received within due date |
| 4 | Uttarakhand Power Corporation Ltd. | Amount Rs 10 Lacs Received within due date |
| 5 | Nuclear Power Corporation of India Ltd. | Amount not received |
| 6 | Rosa Power Supply Company Ltd. | Amount Rs 10 Lacs Received within due date |
| 7 | Mahindra Susten Private Ltd. | Amount not received |
| 8 | Delhi Transco limited | Amount Rs 10 Lacs Received within due date |
| 9 | Lalitpur Power Generation Co. Ltd. | Amount Rs 10 Lacs Received within due date |
| 10 | Nabha Power Limited | Amount Rs 10 Lacs Received within due date |
| 11 | Meja Urja Nigam Pvt. Ltd. | Amount Rs 10 Lacs Received within due date |
| 12 | Aravali Power Company Pvt. Ltd. | Amount not received |
| 13 | Adani Power Rajasthan Limited | Amount Rs 10 Lacs Received within due date |
| 14 | Jhajjar Power Limited | Amount Rs 10 Lacs Received within due date |
| 15 | JSW Energy Limited | Amount Rs 10 Lacs Received within due date |
| 16 | Talwandi Sabo Power Limited | Amount Rs 10 Lacs Received within due date |
| 17 | Lanco Anpara Power Ltd. | Amount Rs 10 Lacs Received within due date |
| 18 | NTPC Limited | Amount Rs 10 Lacs Received within due date |
| 19 | THDC India Limited | Amount Rs 10 Lacs Received within due date |
| 20 | NHPC Limited | Amount not received |
| 21 | Power Transmission Corp. of Uttarakhand Ltd. | Amount Rs 10 Lacs Received within due date |
| 22 | Satluj Jal Vidyut Nigam Ltd. | Amount Rs 10 Lacs Received within due date |
| 23 | Uttarakhand Jal Vidyut Nigam Ltd. | Amount Rs 10 Lacs Received within due date |
| 24 | U.P. Rajya Vidyut Utpadan Nigam Ltd. | Amount Rs 10 Lacs Received within due date |
| 25 | Uttar Pradesh Power Transmission Corp. Ltd. | Amount not received |

| 26 | Punjab State Power Corp. Ltd. | Amount Rs 10 Lacs Received within due date |
|-----|--|--|
| 27 | Punjab State Transmission Corporation | Amount Rs 10 Lacs |
| | Ltd. | Received within due date |
| 28 | H.P. Power Transmission Corp. Ltd. | Amount Rs 10 Lacs |
| | This is over transmission corp. Etc. | Received within due date |
| 29 | HPSEB. Ltd. | Amount not received |
| 30 | Rajasthan Rajya Vidyut Utpadan Nigam | Amount Rs 10 Lacs |
| | Ltd. | Received within due date |
| 31 | Rajasthan Rajya Vidyut Prasaran Nigam | Amount Rs 10 Lacs |
| | Ltdpdf | Received within due date |
| 32 | Haryana Power Generation Company Ltd. | Amount Rs 10 Lacs |
| | | Received within due date |
| 33 | Haryana Vidyut Prasaran Nigam Ltd. | Amount Rs 10 Lacs |
| | | Received within due date |
| 34 | UT Chandigarg | Amount Rs 10 Lacs |
| | | Received within due date |
| 35 | Bhakhra Beas Management Board | Amount Rs 10 Lacs |
| | | Received within due date |
| 36 | Indraprastha Power Generation Co. Ltd. | Amount Rs 10 Lacs |
| | | Received within due date |
| 37 | Tata Power Trading Company Ltd. | Amount Rs 10 Lacs |
| | District No. 11 | Received within due date |
| 38 | Uttar Haryana Bijli Vitran Nigam Ltd. | Amount Rs 10 Lacs |
| 00 | Aire and Calmark Vitheran Alice and Little | Received within due date |
| 39 | Ajmer Vidyut Vitran Nigam Ltd. | Amount not received |
| 40 | Powergrid Corporation of India Ltd. | Amount Rs 10 Lacs |
| 4.4 | | Received within due date |
| 41 | Jammu Kashmir Power Developmnent | Amount not received |
| 10 | Corporation Ltd. | 15.401 |
| 42 | Jammu Kashmir Power Corporation Ltd. | Amount Rs 10 Lacs |
| 40 | Adami Tana aminahan Limita d | Received within due date |
| 43 | Adani Transmission Limited | Amount Rs 10 Lacs |
| | | Received within due date |

Out of the above constituents, following 09 No. constituents, who did not deposit the contribution amount with in due date were issued reminder- I letters dated 19.04.2023 for the revised contribution amount of Rs 10,10,000/- in lieu of late payment. The same was supposed to be paid by 30.04.2023.

Table-II

| S. No. | Name of Constituents who were issued Reminder-I | Status of revised payment (Rs 10,10,000/-) | Remarks |
|--------|---|--|---------|
| 1 | Dakshinanchal Vidyut Vitran Nigam Limited | Amount not received | |
| 2 | Nuclear Power Corporation of India Ltd. | Rs 10,10,1000/- received | |
| 3 | Mahindra Susten Private Ltd. | Amount not received | |

| 4 | Aravali Power Company Pvt. Ltd. | Rs 10,00,000/- received | Requested NRPC to waive off penalty amount of Rs 10,000/- |
|---|---|-----------------------------|---|
| 5 | NHPC Limited | Rs 10,10,1000/- received | Requested NRPC to waive off penalty amount of Rs 10,000/ Adjust Rs 10,000/- paid as penalty in the next financial year contribution fees. |
| 6 | Uttar Pradesh Power | Rs 10,00,000/- | Rs 10,000/- penalty |
| | Transmission Corp. Ltd. | received | amount is yet to be paid. |
| 7 | HPSEB. Ltd. | Amount not received | |
| 8 | Ajmer Vidyut Vitran Nigam Ltd. | Amount not received | |
| 9 | Jammu Kashmir Power Developmnent Corporation Ltd. | Amount not received | |

Till now, following 05 Nos. constituents have not paid contribution amount, who have been issued reminder- II letter dated 10.05.2023 for the revised contribution amount of Rs 10,20,000/- in lieu of late payment. The same is supposed to be paid by 30.05.2023

Table-III

| S. No. | Name of Constituents who were issued Reminder-II | Status of revised payment (Rs 10,20,000/-) |
|--------|---|--|
| 1 | Dakshinanchal Vidyut Vitran Nigam Limited | Amount not received |
| 2 | Mahindra Susten Private Ltd. | Amount not received |
| 3 | HPSEB. Ltd. | Amount not received |
| 4 | Ajmer Vidyut Vitran Nigam Ltd. | Amount not received |
| 5 | Jammu Kashmir Power Developmnent Corporation Ltd. | Amount not received |