



Govt. of India  
Central Electricity Authority  
System Planning & Project Appraisal Division  
Sewa Bhawan, R.K. Puram, New Delhi – 110066.

No. 26/10/2011-SP&PA/ 453-66

Date: 4<sup>th</sup> May, 2012

To

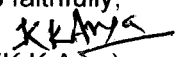
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|----|---|----|--|
| 1  | The Member (PS),<br>Central Electricity Authority,<br>Sewa Bhawan, R. K. Puram,<br>New Delhi-110066   | 8  | Chief Engineer (Trans),<br>Nuclear Power Corp. of India Ltd.,<br>9S30, VS Bhavan, Anushakti Nagar, Mumbai-<br>400094<br><b>Fax 022-25993570</b>  |
| 2  | The Member Secretary,<br>Western Regional Power Committee,<br>MIDC Area, Marol, Andheri East, Mumbai<br><b>Fax 022 28370193</b>                       | 9  | The Executive Director (Engg.),<br>NTPC Ltd., Engg. Office Complex,<br>A-8, Sector-24, NOIDA 201301<br><b>Fax 0120-2410201/2410211</b>           |
| 3  | The Director (Projects ),<br>Power Grid Corp. of India Ltd., "Saudamini",<br>Plot No. 2, Sector-29, Gurgaon-122001<br><b>Fax 0124-2571760/2571932</b> | 10 | The Chief Engineer,<br>Electricity Department,<br>The Government of Goa, Panaji<br><b>Fax 0832 2222354</b>                                       |
| 4  | Chairman and Managing Director,<br>MPPTCL, Shakti Bhawan,<br>Rampur, Jabalpur-482008<br><b>Fax 0761 2664141</b>                                       | 11 | Executive Engineer (Projects)<br>UT of Dadra & Nagar Haveli,<br>Department of Electricity , Silvassa<br><b>Ph. 0260-2642338/2230771</b>          |
| 5  | The Managing Director,<br>CSPTCL, Dangania,<br>Raipur (CG)-492013<br><b>Fax 0771 2574246/ 4066566</b>   | 12 | Executive Engineer<br>Administration of Daman & Diu (U.T.)<br>Department of Electricity<br>Moti Daman-396220<br><b>Ph. 0260-2250889, 2254745</b> |
| 6  | The Managing Director,<br>GETCO, Sardar Patel Vidyut Bhawan,<br>Race Course, Baroda-390007<br><b>Fax 0265-2338164</b>                                 | 13 | GM, WRLDC<br>Plot no F-3, MIDC Area, Msarol,<br>Andheri(East) Mumbai-400093<br><b>Fax no 022-28235434</b>  |
| 7. | Director (Operation),<br>MAHATRANSCO, 'Prakashgad', Plot No.G-9,<br>Bandra-East, Mumbai-400051<br><b>Fax 022-26390383/26595258</b>                    | 14 | CEO, POSOCO<br>B-9, Qutab Institutional Area, Katwaria Sarai<br>New Delhi-110016<br><b>Fax 011-26852747</b>                                      |

**Sub:** Supplementary Agenda for 34<sup>th</sup> meeting of the Standing Committee on Power System Planning of Western Region

**Sir,**

In continuation to our letter of even no dated 23-4-2012, it is to intimate that the Supplementary agenda note for the 34<sup>th</sup> meeting of the Standing Committee on Power System Planning of Western Region is available on CEA website ([www.cea.nic.in](http://www.cea.nic.in) at the following link: Home page-Wing Specific Document-Power Systems-Standing Committee on Power System Planning-Western Region).

Yours faithfully,

  
(K.K. Arya)

Chief Engineer, SP&PA

भारत सरकार  
केन्द्रीय विद्युत प्राधिकरण  
प्रणाली योजना एवं परियोजना मूल्यांकन प्रभाग  
सेवा भवन, रामकृष्णपुरम्, नई दिल्ली 110066

क. सं. : 26/10/2012-प्र. यो. प. मू./ 457-66

दिनांक: 04.05.2012

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|---|--|----|--|
| 1 | सदस्य (विद्युत प्रणाली),<br>केन्द्रीय विद्युत प्राधिकरण,<br>सेवा भवन, आर के पुरम्,<br>नई दिल्ली-110066                                   | 8  | मुख्य अभियंता (पारेषण),<br>न्यूक्लीयर पावर कॉरपोरेशन ऑफ इंडिया लि,<br>9एस30, वीएस भवन, अणुशक्ति नगर,<br>मुम्बई-400094 फ़ैक्स सं. 022-25993570                          |
| 2 | सदस्य सचिव,<br>पश्चिमी क्षेत्रीय विद्युत समिति, एम. आई. डी. सी क्षेत्र,<br>मेरोल, अंधेरी पूर्व, मुम्बई-400094<br>फ़ैक्स सं. 022-28370193 | 9  | कार्यपालक निदेशक (अभियांत्रिकी),<br>नेशनल थर्मल पावर कॉरपोरेशन लि,<br>इंजीनियरिंग ऑफिस कॉम्प्लेक्स, ए-8, सैक्टर-24,<br>नोएडा-201301 फ़ैक्स सं. 0124-2410201            |
| 3 | निदेशक (परियोजना),<br>पावरग्रिड कॉरपोरेशन ऑफ इंडिया लि.,<br>सौदागिनी, प्लाट सं. 2, सैक्टर-29, गुडगाँव-122001<br>फ़ैक्स सं. 0124-2571760  | 10 | मुख्य अभियंता,<br>विद्युत विभाग, गोवा सरकार, पणजी<br>फ़ैक्स सं. 0832-2222354   |
| 4 | अध्यक्ष एवं प्रबन्ध निदेशक,<br>एम.पी.पी.टी.सी.एल. शक्ति भवन,<br>रामपुर, जबलपुर-482008<br>फ़ैक्स सं. 0761-2664141                         | 11 | कार्यपालक इंजीनियर (परियोजनाए),<br>दादरा एवं नागर हवेली संघ शासित क्षेत्र,,<br>विद्युत विभाग, सिलवासा,<br>फोन नं. 0260-2642338   |
| 5 | प्रबन्ध निदेशक<br>छत्तीसगढ़ रा. वि. बोर्ड,<br>दानगनिया, रायपुर (छत्तीसगढ़) -492013<br>फ़ैक्स सं. 0771-2574246                            | 12 | कार्यपालक इंजीनियर,<br>विद्युत विभाग, दमन एवं दीव संघशासित क्षेत्र प्रशासन,<br>मोती दमन, पिन-396220<br>फोन नं. 0260-2250889, 2254745                                   |
| 6 | प्रबन्ध निदेशक,<br>जी.ई.ट्रां.नि.लि. सरदार पटेल विद्युत भवन,<br>रेस कोर्स, बड़ोदा-390007<br>फ़ैक्स सं. 0265-2338164                      | 13 | कार्यपालक निदेशक, (विशेष आमंत्रित),<br>डब्लू आर एल डी सी, प्लॉट संख्या-एफ 3,<br>एम आई डी सी एरिया, मरोल,<br>अंधेरी पूर्व, मुम्बई-400093,<br>फ़ैक्स संख्या-022-28235434 |
| 7 | निदेशक (प्रचालन),<br>महाद्रांसको, प्रकाशगड, प्लॉट संख्या-जी 9,<br>बांद्रा-पूर्व, मुम्बई-400051<br>फ़ैक्स 022-26390383/26595258           | 14 | कार्यपालक निदेशक, एनएलडीसी<br>बी-9, कुतुब इन्स्टीट्यूशनल एरिया,<br>कटवारिया सराय, नई दिल्ली-110016<br>फ़ैक्स 011-26852747  |

विषय :- पश्चिमी क्षेत्र विद्युत प्रणाली योजना की स्थाई समिति की 34वीं बैठक

महोदय,

पश्चिमी क्षेत्र विद्युत प्रणाली योजना की स्थाई समिति की 34वीं बैठक की एक अनुपूरक कार्य - सूची सूचना केन्द्रीय विद्युत प्राधिकरण की वेबसाइट [www.cea.nic.in](http://www.cea.nic.in) पर लिंक Home page - Power Systems-Standing Committee on Power System Planning-Western Region) पर उपलब्ध है।

संलग्न - उपरोक्त

के.के. आर्य  
(के.के. आर्य )  
मुख्य अभियंता

## **Supplementary Agenda Note for 34<sup>th</sup> Meeting of Standing Committee on Power System Planning in Western Region**

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- 1.0 LILO of 220 kV Raigarh (CSPTCL) - Budhipadar line at 400/220 kV Raigarh PGCIL substation- Proposal by CSPTCL.**
- 1.1 The proposal of LILO of 220 kV Raigarh (CSPTCL) - Budhipadar line at 400/220 Raigarh PGCIL substation was proposed by CSPTCL in the 32<sup>nd</sup> SCM of WR held on 13<sup>th</sup> May 2011. The CSPTCL proposal was agreed by the WR constituents and availability of 2 no. 220 kV bays at Raigarh (PG) was also confirmed in the 32<sup>nd</sup> SCM. Since Raigarh (CSPTCL) - Budhipadar 220 kV line being an inter-regional line, therefore, it was also agreed to put up the agenda in the SCM of ER for discussion with the Eastern Region constituents.
- 1.2 Subsequently the CSPTCL proposal was taken up in the SCM of ER held on 08.02.2012. The proposal was agreed by the ERPC in its 21<sup>st</sup> TCC/ERPC meeting held on 20/21<sup>st</sup> April 2012.
- 1.3 This is for kind information of the members. CSPTCL may indicate the implementation schedule of the above proposal.
- 2.0 Provision of 63 MVAR line reactor for one circuit of Raipur – Chandrapur / Bhadrawati 400 kV line at Raipur end.**
- 2.1 In order to address the problem of high short circuit level at Raipur 400kV substation, Splitting of bus along with reconfiguration/shifting of terminating lines at Raipur 400kV substation, was agreed in the 28<sup>th</sup> meeting of Standing Committee in Western Region held on 06.12.2008 at Aurangabad. As per the agreed scheme, the following reconfiguration/shifting of lines has to be carried out:
- (i) Bypassing of Korba – Bhatapara - Raipur – Bhilai 400 kV line at Raipur. Thus resulting in Korba – Bhatapara – Bhilai 400 kV line and two free line bays in Raipur section A.
  - (ii) Shifting of Bhadrawati circuit – II & III from Raipur section B to Raipur section A in the two line bays made available by the above bypassing.
- 2.2 The reactive compensation arrangement existing at Raipur end for Raipur – Chandrapur / Bhadrawati 400kV D/c line and Bhatapara – Raipur 400kV S/c line are:
- (i) 1x63MVAR line reactor at Raipur end of each circuit of Raipur – Bhadrawati 400kV D/c line.
  - (ii) 1x50MVAR line reactor at Raipur end of earlier Bhatapara – Raipur 400kV S/c line.
- 2.3 POWERGRID has proposed shifting of Bhadrawati circuit –II & III from Raipur section B to section A without shifting of associated line reactor in view of the complicity involved in swapping of the transmission lines including shifting of line reactors. With this only 1x50MVAR line reactor (of earlier Bhatapara – Raipur 400kV S/c line) shall be available for one circuit and there shall be no line reactor for other circuit. Since, Raipur – Bhadrawati line is 345km long, POWERGRID has proposed a new 1x63MVAR line reactor at Raipur end for this line.

Members may discuss.

**3.0 Establishment of Varanasi- Balia 765 kV S/C line instead LILO of 765kV Gaya – Balia 765 kV S/C line at Varanasi 765/400 kV substaion.**

3.1 In the Tilaiya UMPP located in Jharkhand, Eastern Region, Northern Region and Western Region had share of 1500 MW, 1700 MW and 800 MW respectively. The generation specific transmission system associated with Tilaiya UMPP, along with revisions already informed to the WR constituents in the 28<sup>th</sup>, 30<sup>th</sup> and 31<sup>st</sup> Standing Committee meeting of Power System Planning in Western Region, is as given under:

- (i) 765kV Tilaiya- Gaya S/c line.
- (ii) 765kV Tilaiya-Balia D/c line.
- (iii) LILO of one circuit of 765kV Tilaiya - Balia D/c line at Gaya.

Further, LILO of 765kV Gaya – Balia 765 kV S/C line at Varanasi 765/400 kV substation has been agreed as a part of System Strengthening in NR associated with IPP projects in Jharkhand & West Bengal.

3.2 PGCIL has informed that after site selection of Varanasi substation, it has been observed that the estimated LILO distance of Gaya – Balia 765 kV S/c line at Varanasi comes to about 110 km and for implementing this LILO, 110 km of 765 kV D/c line would have to be constructed. Apart from this LILO, Gaya- Varanasi 765 kV S/C line has also been agreed as a part of System Strengthening in NR associated with IPP projects in Jharkhand & West Bengal. As a result there would two 765 kV S/C lines between Gaya and Varanasi ( one direct link and other as a part of LILO) and long LILO distance would result into unbalanced loading on Gaya – Varanasi 765 kV lines. PGCIL has further informed that the LILO tapping point of Gaya – Balia line is close to Balia substation.

3.3 In view of the above, PGCIL has proposed to implement Varanasi – Balia 765 kV S/c direct line instead of LILO of 765kV Gaya – Balia 765 kV S/C line at Varanasi 765/400 kV GIS. With the direct 765 kV interconnection, construction of 110 km of 765kV D/c line for establishing LILO would not be required and the overall cost of the project would be reduced, resulting in overall optimization.

3.4 The above has been discussed and agreed in the Standing Committee Meeting of Eastern Region held on 08-02-2012 at NRPC New Delhi as well as in 21<sup>st</sup> TCC/ERPC meeting of ERPC held on 21-04-2012.

This is for the information of the members.