

पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)



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संदर्भ संख्या / Ref. No.

C/SEFW/06/CONN

केन्द्रीय कार्यालय / CORPORATE CENTRE
29th Aug, 2011

1.	Member (PS) Central Electricity Authority Sewa Bhawan, R.K.Puram New Delhi-110 066	2.	Chairman & Managing Director MPPTCL, Block No. 3 Shakti Bhawan, Rampur, Jabalpur-482 008
3.	The Member Secretary Western Regional Power Committee MIDC area, Marol, Andheri (E) Mumbai 400 093	4.	Executive Engineer (Projects) Electricity Department UT of Dadra & Nagar Havelli, Post Naroli-396 235 Silvassa
5.	Shri Ravinder Chief Engineer(SP & PA) Central Electricity Authority Sewa Bhawan, R.K.Puram New Delhi-110 066	6.	The Chief Engineer Electricity Department The Government of Goa Panaji
7.	Managing Director Gujarat Energy Transmission Corp. Ltd, Sardar Patel Vidyut Bhawan, Race Course, Vadodra -390 007	8.	Shri M.L. Jadhav Chief Engr(Transmission) Nuclear Power Corpn. of India Ltd. 12 th Floor, North wing, VS Bhawan Anushaktinagar, Mumbai-400 094
9.	Executive Engineer, UT of Daman & Diu Administration, Electricity Department, Moti Daman 396 220	10.	Director (Operation) MSETCL. 4 th Floor, "Prakashganga" Plot No. C-19, E-Block Bandra - Kurla Complex, Bandra(East), Mumbai- 400051
11.	Managing Director Chhattisgarh State Transmission Co. Ltd. Dangania Raipur- 492 013	12.	Executive Director (Engg.) NTPC Ltd, EOC, Plot no. A-8A, Sector-24, Post Box. 13, Noida 201 301 (U.P)

Sub: Applications for Grant of Connectivity & MTOA

Dear Sir,

We write with reference to the applications for grant of connectivity and Grant of MTOA in Western region as per CERC regulations 2009. In this regard, a brief agenda note is enclosed. It is proposed to discuss above agenda in the next meeting of WR constituents/ Standing Committee meeting on power system planning in WR.

However, in view of the time line for processing of MTOA case, it is requested that observations, if any/consent on the MTOA proposals may be forwarded to us latest by 15th September'11 so that we can proceed further. In case on non receipt of observation on MTOA application, it shall be inferred that you are in agreement with the proposals and MTOA to above applicants may be provided as per the proposal.

Yours faithfully,

(Y.K. Sehgal)

Executive Director (SEF & CE)

Encl: As above

पंजीकृत कार्यालय : बी-9, कुतब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली-110016 दूरभाष : 011-26560121 फैक्स : 011-26560039 तार : 'नेटग्रिड'
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स्वहित एवं राष्ट्रहित में ऊर्जा बचाए
Save Energy for Benefit of Self and Nation

1	CEO POSOCO B-9, Qutab Institutional Area Katwaria Sarai, New Delhi-110016	2	General Manager (WRLDC) F-3, M.I.D.C Area Marol, Andheri(E) Mumbai-400093
3	Sh. Naresh Panchal Head & GM Suzlon Power Infrastructure Ltd. One Earth, Tree Lounge, L-1, R/W, Hadapsar, Pune - 411028	4	Sh I R Venkatraman Asst. General Manager Ellora Paper Mills Ltd 6 th Floor, Landmark Building, Ramdaspath, Wardha Road, Nagpur - 440004
5	Sh. Neeraj Agarwal VP-Thermal Welspun Energy Annupur Pvt. Ltd. 3 rd Floor, The Press Trust of India Building 4, Parliament Street New Delhi 110001	6	Sh. C. S. Mani Director (Technical) Petronet LNG Ltd. 1 st Floor, World Trade Centre, Babar Road, Barakhambha Lane, New Delhi - 110001
7	Sh. L. N. Agrawal Sr. Vice President India Bulls Power Ltd. Indiabulls House, Vth Floor,448-451. Udyog Vihar, Phase-V Gurgaon 122001 (Haryana)	8	Sh. Raghuram. N Deputy General Manager I/c Maintenance Steel Authority of India Ltd. Visvesvaraya Iron & Steel Plant, Bhadravati, 577301 Karnataka
9	Sh. B N Mehta Superintending Engineer(Power) Electricity Department, Dadra & Nagar Haveli, Silvassa		

Agenda for Proposed Connectivity in ISTS for IPP Projects in WR

1.0 Following applications for Connectivity in ISTS from various applicants who have proposed to set-up IPP generation projects in Western Region are received:

a) Maharashtra

1. Ellora Paper Mills Ltd. (EPML) (4x660MW)
2. Indiabulls Power Ltd. (IBPL) (5x270MW)

b) Gujarat

3. Suzlon Power Infrastructure Ltd. (SPIL) (100MW)
4. Petronet LNG Ltd. (PLNGL) (3x395MW)

c) Madhya Pradesh

5. Welspun Energy Anupur Pvt. Ltd. (WEAPL) (1320MW)

2.0 Details of Connectivity applications

Details of above generation projects are enclosed at **Annexure-1**.

3.0 Status of Generation project

As per the applications, the status of above generation projects is enclosed at **Annexure-2**.

4.0 Proposed Connectivity of above generation project

In view of the provisions in CERC regulation 2009 and considering the location & unit sizes of generation projects etc, following connectivity of the generation projects is proposed based on technical examination as per CEA (Technical Standards for connectivity to the Grid) regulations, 2007:

A. IPP Generation project in Maharashtra

As per the connectivity applications received in the state of Maharashtra, 2 nos. applications viz. Ellora Paper Mills Ltd. and Indiabulls Power Ltd. have applied for connectivity. Details of the connectivity applications are as under:

i) Ellora Paper Mills Ltd. (EPML), Distt.Gondia Maharashtra

- Project Capacity - 4x660MW =2640MW
- Connectivity applied for/from – 2640MW/Dec'14
- Commissioning schedule- Mar'15 onwards
- Location: Distt: Gondia, Maharashtra

M/s Ellora Paper Mills Ltd. has proposed to set up 4x660MW generation project. Applicant has informed step up voltage as 400kV. However, in view of the project capacity and unit sizes, it is proposed to step up the generation

voltage at 765 kV level. In view of the above as well as the proximity of the generation project, following connectivity of the M/s Ellora Paper Mills Ltd (4x660MW) is proposed:

- Ellora TPS – Seoni 765kV D/c – 100km approx.
- 765kV bay extension at Seoni for above line termination- 2 nos.

Above transmission connectivity can be developed by the transmission licensee through competitive tariff based bidding route.

Considering above proposed connectivity arrangement, provision of following at generation switchyard, implementation of **which shall be under the scope of the M/s EPML**, is proposed:

- 765kV line bays : 2 nos.
- 765kV bus reactor : 1x330MVAR
- 765kV bus reactor bay: 1 no.

However, transmission system strengthening to facilitate power transfer on long-term basis shall be identified once M/s. Ellora Paper Mills Ltd. applies for Long-term Access as per CERC Regulations, 2009.

ii) **Indiabulls Power Ltd. (IBPL) (5x270MW), Distt. Amravati, Maharashtra**

- Project Capacity - 5x270MW =1350MW
- Connectivity applied for/from – 1350MW/ Jun'13
- Commissioning schedule- Apr'13 onwards
- Location: Distt: Amravati, Maharashtra

For 5x270 MW Stage-I of Amravati TPP of Indiabulls Power Ltd, the evacuation arrangement is already planned through following evacuation arrangement. The transmission network is being established by Amravati Power Tr. Co. Ltd.

- Amravati TPP – Akola (MSETCL) 400kV D/c
- LILO of 400kV Akola – Koradi S/c line at Amravati TPP

Now Indiabulls Power Ltd. has proposed expansion at Amravati Stage-I (1350MW) generation by another 1350MW capacity as Stage-II with schedule for commissioning as 2013-14.

Considering the connectivity requirement for additional generation capacity of 1350 MW, following connectivity of Amravati TPS stage -II is proposed:

- Generation Step-up at 400kV level & interconnection at existing Amravati TPS Stage-I 400kV bus (under the scope of generation developer)

Considering above proposed connectivity arrangement, provision of following at generation switchyard, implementation of **which shall be under the scope of the M/s Indiabulls Power Ltd.**, is proposed:

- 400kV bus reactor : 1x125MVAR
- 400kV bus reactor bay: 1 no.

However, transmission system strengthening to facilitate power transfer on long-term basis shall be identified once M/s Indiabulls Power Ltd. applies for Long-term Access as per CERC Regulations, 2009.

B. IPP Generation projects in Gujarat

As per the connectivity applications received in the state of Gujarat, 2 nos. applications viz. Suzlon Power Infrastructure Ltd. and Petronet LNG Ltd., have applied for connectivity. Details of the connectivity applications are as under:

i) Suzlon Power Infrastructure Ltd.(SPIL), Distt.Kutch, Gujarat

- Project Capacity - 100MW
- Connectivity applied for/from – 100MW/Mar'12
- Commissioning schedule- Mar'13
- Location: Distt Kutch ,Gujarat

M/s Suzlon Power Infrastructure Ltd. has proposed to set up 100MW wind farm project. Applicant has informed step up voltage as 220kV. In view of the project capacity as well as the proximity of the generation project, following connectivity of project is proposed:

- Suzlon Wind Farm – Bachau/Bhimsar(PG) 220kV D/c – 25km

Connectivity system shall be implemented by the applicant as per the CERC Regulation 2009 as the generating station using a renewable source of energy is less than 250MW.

Considering above proposed connectivity arrangement, provision of following at wind farm, implementation of **which shall be under the scope of the M/s Suzlon Power Infrastructure**, is proposed:

- 220kV line bays : 2 nos.

In addition, 2 nos. 220kV line bays at Bachau/Bhimsar(PG) for termination of above connectivity shall be under the scope of the generation developer. Further, adequate reactive compensation may be provided at Suzlon Wind Farm to take care reactive power requirement.

However, transmission system strengthening to facilitate power transfer on long-term basis shall be identified once M/s Suzlon Power Infrastructure Ltd. applies for Long-term Access as per CERC Regulations, 2009.

ii) Petronet LNG Ltd.(PLNGL), Distt:Bharuch,Gujarat

- Project Capacity – 3x395MW =1185MW (Tentative)
- Connectivity considered for/from – 1185MW/Jan'14
- Commissioning schedule - Jan'14 onwards
- Location: Distt: Bharuch, Gujarat

M/s Petronet LNG Ltd. has proposed to set up 3x395MW natural gas (LNG) based generation project. Applicant has informed step up voltage as 400kV. In view of the desired connectivity schedule, plant capacity as well as the proximity of the generation project, following connectivity of the project is proposed:

- PLNGL TPS – Vadodra 400kV D/c (Triple) – 100km

Above transmission connectivity can be developed by the transmission licensee through competitive tariff based bidding route. However in view of the generation commissioning schedule of Jan'14 i.e. around 27 months, it is proposed that developer may establish the above connectivity transmission system.

In view of the above proposed connectivity arrangement, provision of following at generation switchyard, implementation of **which shall be under the scope of the M/s PLNGL**, is proposed:

- 400kV line bays : 2 nos.
- 400kV bus reactor : 1x125 MVAR
- 400kV bus reactor bay: 1 nos.

However, transmission system strengthening to facilitate power transfer on long-term basis shall be identified once M/s. Petronet LNG Ltd. applies for Long-term Access as per CERC Regulations, 2009.

C. IPP Generation projects in Madhya Pradesh

M/s Welspun Energy Annupur Pvt. Ltd., has applied for connectivity in the state of Maharashtra. Details of the connectivity application is as under:

i) Welspun Energy Annupur Pvt. Ltd.(WEAPL), Distt.Annupur, Madhya Pradesh

- Project Capacity - 1320MW (2x660 MW)

- Connectivity applied for/from – 1320MW/Aug'14
- Commissioning schedule - Dec'14 onwards
- Location: Distt Annupur , Madhya Pradesh

M/s Welspun Energy Annupur Pvt. Ltd has proposed to set up 1320MW generation project. Applicant has informed step up voltage as 400kV. In view of the project capacity, unit size as well as the proximity of the generation project, following connectivity of project is proposed:

- Welspun Anuppur TPS –Vindhychal Pooling station 400kV D/c (triple) – 100 km

Above transmission connectivity can be developed by the transmission licensee through competitive tariff based bidding route.

Considering above proposed connectivity arrangement, provision of following at wind farm, implementation of **which shall be under the scope of the M/s Welspun Energy Annupur Pvt. Ltd.**, is proposed:

- 400kV line bays : 2 nos.
- 400kV bus reactor : 1x125 MVAR
- 400kV bus reactor bay: 1 nos.

However, transmission system strengthening to facilitate power transfer on long-term basis shall be identified once M/s Welspun Energy Annupur Pvt. Ltd. applies for Long-term Access as per CERC Regulations, 2009.

5.0 For all the generation projects who have applied for Connectivity under CERC regulation, 2009, in addition to other applicable provisions in CERC regulations 2009 on Grant of connectivity, Long Term Access and Medium-term Open Access in inter-state transmission and related matters, following are to be noted:

- a) The grant of connectivity shall not entitle above applicants to interchange any power with the grid unless they obtains long-term access, medium term open access or short term open access. However, the above IPP shall be allowed to undertake interchange of power including drawl of power for commissioning activities and injection of infirm power in to the grid during full load testing before being put into commercial operation, even before availing any type of open access, after obtaining permission of the concerned regional load dispatch centre, which shall keep grid security in view while granting such permission.
- b) Above applicants are required to inform/confirm following to facilitate connectivity:
 - i) Likely date of synchronization, likely quantum and period of injection of infirm power before being put into commercial operation to the SLDC and RLDC concerned at least one month in advance.

- ii) In case the dedicated transmission system upto point of connection is to be undertaken by Inter-State Transmission Licensee, the applicants need to sign transmission agreement with CTU within one month of grant of connectivity, furnish requisite Bank Guarantee and fulfill other terms & conditions as stipulated in the CERC Regulations/Detailed Procedure, 2009 in this regard.
 - iii) The applicants shall abide by all provisions of the Electricity Act, 2003, CERC (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State transmission and related matters) Regulations, 2009, CEA (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.
 - iv) All the applicants shall have to apply for "Connection Offer" to CTU at least more than 2 years prior to physical interconnection as well as have to sign "Connection Agreement" with CTU prior to physical interconnection as per CERC Regulations, 2009.
- c) Transmission system strengthening to facilitate power transfer on long-term basis shall be identified once above applicants apply for Long-term Access as per CERC Regulations, 2009.

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Proposal for grant of MTOA to DNH & SAIL in Western Region

1.0 Following applications as per CERC (Grant of Connectivity, Long-term Access and Medium term Open Access in inter State transmission and related matters) Regulation 2009 for grant of Medium term Open Access (MTOA) in WR have been received:

- 1) Electricity Department, Silvassa(UT DNH) – MTOA Quantum: 32 MW
- 2) SAIL Visvesvaraya Iron & Steel Ltd. – MTOA Quantum: 10.92 MW

2.0 Details of applications

A. Electricity Department, Silvassa (UT DNH)

MTOA Quantum-32 MW

Period of MTOA- 01.11.11 to 31.03.12 (5 months)

Point of Injection- 400kV Raipur(PG) through 400kV NSPCL-Raipur D/c line

Point of Drawl-Vapi(PG)

B. SAIL Visvesvaraya Iron & Steel Ltd.

MTOA Quantum-10.92 MW

Period of MTOA- 01.11.11 to 31.05.14 (2 years 7 months)

Point of Injection- 400kV Raipur(PG) through 400kV NSPCL-Raipur D/c line

Point of Drawl-SAIL-VISL, Bhadravati Karnataka

3.0 As per CERC regulation/detailed procedure for making application for grant MTOA in ISTS, MTOA implies as under:

- a) "Medium term Open Access" means the right to use the interstate transmission system (ISTS) for a period exceeding 3 months but not exceeding 3 years and shall be provided on the basis of availability of transmission capacity in the existing transmission system, under execution and likely to be available from the intended date of MTOA.
- b) No augmentation of transmission system is envisaged for granting MTOA. Construction of dedicated transmission line shall not be construed as augmentation of the transmission system
- c) The start date of MTOA can be any day of the month however, it shall not be earlier than 5 months and later than 1 year from the day of the month in which application has been made.

4.0 Proposal of MTOA

Electricity Department, Silvassa(UT DNH)

Power transfer to UT DNH is being taking place through following transmission arrangement:

- a) 400/220kV, 2x315MVA transformers at Vapi(PG) S/s
- b) Vapi(PG)-Kharadpada (DNH) 220kV D/c
- c) Vapi(PG)-Khadoli (DNH) 220kV D/c
- d) Vapi(GETCO)- Dadra 66kV D/c
- e) Bhilad(GETCO)- Silvasa 66kV D/c
- f) Bhilad(GETCO)- Khadoli 66kV S/c

It is to mention that part of demand of UT DNH (550 MW) & UT DD (290 MW) is being met through 400/220kV transformers at Vapi(PG). Out of total about 850-900 MW demand of UT DNH & DD, about 350-400 MW demand is being supplied through 400/220kV, 2x315 MVA transformer at Vapi(PG). Demand of UT DNH/DD is also being met through Vapi(GETCO)-Vapi(PG) 220kV S/c line. Therefore, balance demand i.e 450-500 MW is met through 220kV Vapi (GETCO) as well as 66kV links between UT DNH/DD with WR grid.

Presently, Long term allocation (ISGS) to UT DNH is about 662MW including ISGS allocation (530 MW) as well as LTOA allocation (100 MW) from NSPCL and MTOA allocation from NSPCL (32 MW). DNH avails power from above allocation as well as power exchanges to meet its demand. Despite that UT DNH face power shortage to the tune of about 20-40 MW.

Further, Ministry of Power(MOP) has allocated 2% each to UT DNH(40 MW) as well as UT DD (40 MW) from RGPPL (1940 MW) on a firm basis vide order dated 29.3.10. However these allocation from RGPPL would be effective from the date of signing of PPA/other necessary agreements with concerned utilities which is not yet effective.

Based on the studies it is observed that there is no constraint in feeding 400kV Vapi(PG) and 220kV VAPI(GETCO) & Bhilad(GETCO) S/s for above transaction however peak loading on 400/220kV Vapi(PG) each ICTs shall remain around 200-220 MW which in the event of outage of one ICT shall increases the loading on other ICT to about 300-315 MW which is around its rated capacity.

It is to mention that there is variation in demand during peak/off peak condition. Therefore, in such condition, transmission capacity margin in ISTS may be available to transfer additional quantum of power. Further as ICT can be overloaded above rated capacity for some period of time, methods like manual load shedding can be resorted to contain the overloading.

Keeping above in view, it is proposed that UT DNH may be granted MTOA for 32 MW depending upon transmission capacity margin available. However, in the event of any transmission constraints arises during certain network operating conditions, the quantum of drawl as part of MTOA by UT DNH may be restricted as per the instructions of RLDC. Date of commencement of MTOA shall be from 01.11.2011 to 31.03.2012.

SAIL Visvesvaraya Iron & Steel Ltd.

As informed by the applicant, at present transfer of 10.92 MW power from NSPCL Bhilai to VISL-SAIL, Bhadravati in Karnataka(SR) is taking place through STOA route. Power transfer to Southern Region from Western region takes place through 2x500 MW Bhadravati HVDC Back to Back link.

Considering the quantum of transfer of 10.92 MW from NSPCL, Bhilai in WR to SR, ISTS is found adequate.

Keeping above in view, it is proposed that VISL-SAIL may be granted MTOA for 10.92 MW depending upon transmission capacity margin available. However, in the event of any transmission constraints arises during certain network operating conditions, the quantum of drawl as part of MTOA by VISL-SAIL may be restricted as per the instructions of RLDC. Date of commencement of MTOA shall be from 01.11.2011 to 31.05.2014. However, applicable charges of STU/SLDC to effect transfer of power through STU system shall also be payable as per applicable norms.

5.0 The scheduling jurisdiction and procedure, curtailment and revision of schedule of MTOA transactions, metering, energy accounting and accounting of (Unscheduled Interchange) UI charges shall be as per the Regulations and the Indian Electricity Grid Code, as amended from time to time. While scheduling on day-ahead basis, long-term access customers would have the highest priority, followed by medium term customers and then followed by short-term customers.

6.0 The applicant is required to inform/confirm following:

- (i). On the grant of MTOA, the applicants shall sign the agreement for sharing the transmission charges within 30 days, which will form a part of the medium-term open access agreement (**FORMAT-MTOA-5**). The MTOA Agreement shall contain the quantum of power, date of commencement and end of medium-term open access, the point of injection of power into the grid and point of drawl from the grid, the details of dedicated transmission lines required, if any, and the bank guarantee required to be given by the applicant.
- (ii). After signing of the MTOA agreement, the applicant shall submit a Bank Guarantee (BG) to CTU/Transmission Licensee equivalent to estimated transmission charges of two months within 30 days from the grant of MTOA. The estimated average transmission charges would be reviewed every six months/MTOA period whichever is less and accordingly the amount of Bank Guarantee would be enhanced/reduced by Medium-term customers.
- (iii). In case the MTOA agreement has not been signed or requisite bank guarantee has not been submitted by the applicant within the stipulated period, the grant of MTOA shall be cancelled by the CTU and the same shall be informed to Applicant, concerned SLDCs/RLDCs and STUs.
- (iv). The applicants shall abide by all provisions of the Electricity Act, 2003, CERC (Grant of Connectivity, Long-term Access and Medium-term Open Access in

inter-State transmission and related matters) Regulations, 2009, CEA (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.

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Annexure -1

S. No	Particulars	Ellora Paper Mills Power Ltd.	Indiabulls Power Ltd.	Suzlon Power Limited	Petronet LNG Ltd.	Welspun Energy Annupur Pvt Ltd.
1	Connectivity Required for Capacity (MW)	2640MW	1350MW	100MW	1185MW	1320MW
2	Date from which Connectivity is Required	Dec'14	Jun'13	Mar'12	Jan'14	Aug'14
3	Location of Generating Station	Village/Town- Manora/Tirora, District-Gondia, Maharashtra	Village/Town- Amravati, District-Amravati, Maharashtra	Village/Town- Chitrod, Rapar, Dist- Kutch, Gujarat	Village/Town- Lakhigam, Dahej District-Bharuch, Gujarat	Village/Town-Chhatti, Umarda & Majhtolia District-Annupur, Madhya Pradesh
4	Installed Capacity (MW)	4x660=2640MW	5x270= 1350	100MW	1185MW	2x660=1320MW
5	Commissioning schedule (Unit Wise)	U-1 Mar'15 U-2 Sep'15 U-3 Dec'15 U-4 Mar'16	U-1 Apr'13 U-2 Jun'13 U-3 Aug'13 U-4 Oct'13 U-5 Dec'13	Mar'13	U-1 Jan'14 U-2 Mar'14 U-3 May'14	U-1 Dec'14 U-2 Mar'15
6	Step up voltage of Generating station (kV)	400	400	220	400	400

Annexure -2

S. No	Item	Eljora Paper Mills Power Ltd.	Indiabulls Power Ltd.	Petronet LNG Ltd.	Petronet LNG Ltd.	Welspun Energy Anupur Pvt. Ltd.
1.	Land	Tot Required: 1300Acres. Possessed-32 Acres Tied up :20 Acres pvt land	Possessed-1350 Acres	Land acquisition under process	Land acquisition under process	Tot Required: 769 Acres 158 Acres already completed
2.	Environmental clearance	TOR received	EC obtained	TOR received	TOR received	Public Hearing Done
3.	Fuel Arrangement	Long term Coal Linkage Application submitted to MoC	LOA from Western Coalfields Ltd. and Mahanadi from Coalfields Ltd.	LNG to be sourced from international market	LNG to be sourced from international market	Applied for Coal linkage to MoC
4.	Water arrangement	Application submitted for 90 MM ³ /annum of water	240MLD (87.6MCM) of Water allocated from Vidarbha Irrigation Development Corporation, Nagpur	Not available, possibility of using fresh water / sea water is being explored	Not available, possibility of using fresh water / sea water is being explored	WFRD GoMP has accorded (40MCM – Kewai river) water

पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
POWER GRID CORPORATION OF INDIA LIMITED
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संदर्भ संख्या / Ref. No. C/SEF/W/06/CONLTA

05th October, 2011

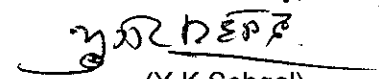
1.	Member (PS) Central Electricity Authority Sewa Bhawan, R.K.Puram New Delhi-110 066	2.	Chairman & Managing Director MPPTCL, Block No. 3 Shakti Bhawan, Rampur, Jabalpur-482 008
3.	The Member Secretary Western Regional Power Committee MIDC area, Marol, Andheri (E) Mumbai 400 093	4.	Executive Engineer (Projects) Electricity Department UT of Dadra & Nagar Havelli, Post Naroli-396 235 Silvassa
5.	Shri K.K.Arya Chief Engineer-I/c(SP & PA) Central Electricity Authority Sewa Bhawan, R.K.Puram New Delhi-110 066	6.	Director (Operation) MSETCL 4th Floor, "Prakashganga" Plot No. C-19, E-Block Bandra – Kurla Complex, Bandra(East), Mumbai- 400051
7.	Managing Director Gujarat Energy Transmission Corp. Ltd, Sardar Patel Vidyut Bhawan, Race Course, Vadodra -390 007	8.	Shri M.L. Jadhav Chief Engr(Transmission) Nuclear Power Corpn. of India Ltd. 12th Floor, North wing, VS Bhawan Anushaktinagar, Mumbai-400 094
9.	Executive Engineer , UT of Daman & Diu Administration, Electricity Department, Moti Daman 396 220	10.	The Chief Engineer Electricity Department The Government of Goa Panaji
11.	Managing Director Chhattisgarh State Transmission Co. Ltd. Dangania Raipur- 492 013	12.	Executive Director (Engg.) NTPC Ltd, EOC, Plot no. A-8A, Sector-24, Post Box. 13, Noida 201 301 (U.P)
13.	CEO POSOCO B-9, Qutab Institutional Area Katwaria Sarai, New Delhi-110 016	14.	General Manager (WRLDC) F-3, M.I.D.C. Area Marol, Andheri (E) Mumbai-400 093

Sub: Applications for Grant of Connectivity and LTA

Dear Sir,

We write with reference to the applications for grant of connectivity/LTA in Western region as per CERC regulations 2009. In this regard, a supplementary agenda note is enclosed. It is proposed to discuss above agenda in the ensuing meeting of WR constituents/ Standing Committee meeting on power system planning in WR which is proposed to be held 21st October, 2011.

Yours faithfully,



(Y.K. Sehgal)

Executive Director (SEF, CE)

Encl: As above

1	Mr. S. K. Sharma Additional General Manager NTPC Limited, NTPC Bhavan, Core – 7, Scope Complex, 7, Institutional Area, Lodhi Road, New Delhi – 110 003	2	Mr. Darshan Hiranandani Director Hindustan Electricity Generation Company Pvt Ltd., Olympia, Central Avenue, Hiranandani Business Park, Powai, Mumbai
3	Mr. Suresh Dhawan Shapoorji Pallonji Energy (Gujarat) Pvt. Ltd., SP Centre, 41/44, Minoo Desai Marg, Colaba, Mumbai – 400 005	4	Mr. A. B. Bajpai Chief General Manager (Comml), MP Power Trading Company Limited (MP Tradeco), Shakti Bhawan, Vidyut Nagar, Rampur, Jabalpur, Madhya Pradesh – 482 008

A. Agenda for Connectivity & Long-term Access application of IPP Projects in WR

1.0 POWERGRID has received application for grant of Connectivity & Long term Access (LTA) as per CERC regulation 2009 from M/s Hindustan Electricity Generation Company Pvt. Ltd.

2.0 Details of Connectivity/ LTA Application

Connectivity & Long term Access has been sought by M/s Hindustan Electricity Generation Company Pvt. Ltd for their proposed 1137MW Gas based generation project near Village / Town: Navlakh – Umbre, Dist - Pune, in Maharashtra. A brief on the proposal of above application is as under:

S.No.	Particulars	Hindustan Electricity Generation Company Pvt. Ltd
1	Capacity for which Connectivity is required (MW)	1137 MW
2	Capacity for which LTA is required (MW)	1000 MW Target regions- WR (700MW), SR (300MW)
3	Date from which Connectivity is required	Sept 2013
4	Date from which LTA is required	March 2014 (for 25 years)
5	Location of Generating Station	Village/Town : Navlakh - Umbre, District – Pune, State - Maharashtra
6	Installed Capacity (MW)	Unit – 1 : 379MW (Gross) Unit – 2 : 2x379MW (Gross)
7	Commissioning schedule (Unit Wise)	Unit – 1 : March 2014 Unit – 2 : September 2014
8	Step up voltage of Generating station (kV)	400

3.0 Status of Generation project

As per the application, the status of generation project is as follows:

1.	Land	Total Required: 99.18 Ha Land in Possession : 83.45 Ha. Acquired: 15.73 Ha
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2.	Environmental clearance	EC available for one unit-1. Applied for Unit-2.
3.	Fuel Arrangement	Natural Gas; Agreement with BPCL for supply of Natural Gas on Short Term Basis.
4.	Water arrangement	Total Demand: 9 MLD; Maharashtra Jeevan Pradhikaran to supply 1.0MLD for construction. Remaining demand to be fulfilled from Andhra Dam.

4.0 Proposal of Connectivity

Applicant informed that connectivity for Unit-I (350 MW) has already been granted by MSTECL at 400kV level though LILO of Lonikhand - Kalwa 400kV S/c line. However, above units are independent with other units through separate switchyard. Applicant has therefore applied for connectivity of 1137 MW capacity.

In view of the project capacity and unit size as well as proximity of the generation project with existing 400/220kV Pune S/s, following connectivity of the M/s Hindustan Electricity Generation Company Pvt Ltd (1137 MW) is proposed based on the technical examination:

- HEGL Switchyard – Pune(GIS) 400 kV D/c (HTLS Conductor) - about 2 km

However in view of the commissioning schedule for establishment of 765/400kV Pune(GIS) S/s and commissioning schedule of the HEGL gen. project, it is proposed that above connectivity line may be routed through existing 400/200kV Pune(PG) S/s as an interim measure.

Above transmission connectivity can be developed by the transmission licensee through competitive tariff based bidding route. However in view of the desired date of connectivity desired from i.e. Sep'13, it is proposed that connectivity line may be developed by the applicant.

Considering above proposed connectivity arrangement, provision of following at generation switchyard, implementation of **which shall be under the scope of M/s Hindustan Electricity Generation Company Pvt Ltd.**, is proposed:

- 400kV line bays : 2 nos.
- 400kV bus reactor : 1x125MVAR
- 400kV bus reactor bay : 1 no.

5.0 Proposal for Long Term Access (LTA)

Keeping above in view and considering the capacity & location of generation project, following is proposed as part of the Long-term access (LTA):

- I. Long term access to M/s Hindustan Electricity Generation Company Pvt Ltd. for transfer of total 1000 MW power [SR-300 MW, WR-700 MW] from its 1137 MW generation

project near Pune, Maharashtra to target beneficiaries in SR/WR may be provided with following system strengthening:

(i) Transmission system strengthening in WR

- Installation of 2x500 MVA,400/220kV transformer at Pune(GIS)

(ii) Transmission system strengthening in SR-WR tr. corridor (to be shared with IPPs in SR & WR)

- Narendra (GIS) – Kolhapur (GIS) 765 kV D/c line (initially to be operated at 400 kV) [subsequently to be upgraded at 765 kV]
- LILO of both circuits of existing Kolhapur – Mapusa 400 kV D/c line at Kolhapur (new)
- Narendra (GIS) – Narendra (existing) 400 kV D/c Quad line
- Establishment of new 400 kV substation each at Narendra (GIS) and Kolhapur (GIS) [to be upgraded to 765 kV later]
- Kolhapur – Padghe 765 kV D/c one circuit via Pune (initially to be operated at 400 kV) [subsequently to be upgraded at 765 kV]

Allocation from M/s HEGL to SR beneficiaries shall be transferred on the basis of displacement.

- II. M/s HEGL shall sign BPTA with POWERGRID for sharing of WR regional transmission charges corresponding to 1000MW, SR transmission charges corresponding to 300 MW and other applicable charges as per CERC norms.

M/s HEGL shall bear the transmission charges towards system strengthening as indicated above (i). In addition, M/s HEGL shall share the transmission charges towards additional system strengthening (ii) as indicated above in proportion to the LTA quantum with other applicable IPPs.

- III. The sharing of Charges shall be as per CERC Regulations as amended from time to time.
- IV. However, in view of the desired LTA commencement date (Mar'14), applicant shall have to firm up PPA at least for 50% of LTA quantum immediately and submit the information to POWERGRID.
- V. LTA shall be effective from the date of availability of identified transmission system strengthening or date of LTA sought whichever is later.

B. Agenda for Long-term Access applications of IPP Projects in WR

a. POWERGRID has received applications for grant of Long term Access (LTA) as per CERC regulation 2009 from the following applicants:

1. Shapoorji Pallonji Energy (Gujarat) Ltd.(2x660MW)
2. NTPC Limited – Lara-I (2x800MW)
3. NTPC Limited – Barethi-I (4x660MW)
4. MP Power Trading Company Ltd. (420MW)

b. Details of LTA Applications

1. Shapoorji Pallonji Energy (Gujarat) Ltd. (500MW)

Long term Access has been sought by M/s Shapoorji Pallonji Energy (Gujarat) Ltd. for transfer of 500 MW power their 1320MW proposed generation project near Junagadh, in Gujarat. A brief on the proposal of above application is as under:

I. Details of the application is as under :

S.No.	Particulars	Shapoorji Pallonji energy (Gujarat) Ltd(1320MW)
1	Capacity for which LTA is required (MW)	500 MW Target Beneficiary /regions- SRWR SR(245MW)+WR(255MW)
2	Date from which LTA is Required	15 th May' 2015 (250MW) 15 th August' 2015 (250MW) upto 14.05.40 (25 yrs)
3	Location of Generating Station	Village- Kaj & Nanavada, Taluka – Kodinar, Distt - Junagadh, State-Gujarat
4	Installed Capacity (MW)	1,320MW (2x 660MW)
5	Commissioning schedule (Unit Wise)	U-1(660MW): May'15 U-2(660MW): Aug'15
6	Step up voltage of Generating station (kV)	400kV

II. Status of Generation project

As informed by the applicant, the status of generation project is as follows:

S. No.	Item	Shapoorji Pallonji energy (Gujarat) Ltd (1320MW)
1.	Land	Required:840 acres Acquired/aggregated- 300 acres
2.	Environmental clearance	Final EIA Report submitted to MOEF

3.	Fuel Arrangement	Imported coal from Indonesia
4.	Water arrangement	Tied up
5.	EPC Contract Status	Bids opened. LOA by Oct/Nov'11

III. Proposal for LTA

As informed, M/s Shapporji Pallonji Energy (Gujarat) Ltd. (SPEL) has signed PPA with GUVNL for supply of 800MW power from upcoming 2x660MW (Phase-I) power project near Kodinar in Junagarh. GETCO have planned following transmission system for evacuation of above quantum of power (800 MW) from the project:

- 400kV Shapoorji Pallonji TPS – Amreli D/c line (twin)- 120km

Subsequently, M/s SPEL applied for LTA for transfer of 500 MW power to WR/NR as target region. Considering this system strengthening through interconnection of SEPL TPS with Pirana(PG) through a 400kV D/c line is proposed. However in view of the long distance (about 320 km) with Pirana as well as nearby connectivity to 400kV Amreli(GETCO) of SPEL TPS, it is observed that majority of power flow(about 900–1000 MW) rushes towards Amreli S/s which is critical. In view of the above, it is proposed to install a Phase Shifter of suitable rating at Pirana(PG) on SPEL-Pirana(PG) 400kV D/c to control the power flow.

- (a) Keeping above in view, it is proposed to provide long term access to M/s SPEL for transfer of 500MW power to target beneficiaries in WR/SR [WR- 255MW, SR- 245MW] may be provided subject to condition that M/s SPEL shall have to firm up PPA at least for 50% of LTA quantum 3 years prior to the intended date of availing LTA as per CERC regulations, 2009 and intimate to POWERGRID as well as availability of following system strengthening scheme:

(i) Transmission system strengthening for M/s SPEL

- SPEL TPS – Pirana 400kV D/c with Phase Shifting Transformer at Pirana(PG)

(ii) Transmission system strengthening in WR (to be shared with M/s Pipavav Energy)

- Pirana – Dehgam 400kV D/c (2nd)
- Installation of 1x315 MVA,400/220kV ICT (3rd) at Pirana

(iii) Transmission system strengthening in SR-WR tr. corridor (to be shared with IPPs in SR & WR)

- Narendra (GIS) – Kolhapur (GIS) 765 kV D/c line (initially to be operated at 400 kV) [subsequently to be upgraded at 765 kV]
- LILO of both circuits of existing Kolhapur – Mapusa 400 kV D/c line at Kolhapur (new)
- Narendra (GIS) – Narendra (existing) 400 kV D/c Quad line
- Establishment of new 400 kV substation each at Narendra (GIS) and Kolhapur (GIS) [to be upgraded to 765 kV later]
- Kolhapur – Padghe 765 kV D/c one circuit via Pune (initially to be operated at 400 kV) [subsequently to be upgraded at 765 kV]

Above transmission arrangement (i) & (ii) shall facilitate power transfer within WR while power transfer to beneficiaries in SR shall be effected on displacement basis.

- (b) M/s SPEL shall sign BPTA with POWERGRID for sharing of WR regional transmission charges corresponding to 500MW, SR transmission charges corresponding to 245 MW and other applicable charges as per CERC norms. M/s SPEL shall bear the transmission charges towards system strengthening as indicated above (a-i). In addition, M/s SPEL shall share the transmission charges towards additional system strengthening as indicated above (a-ii & a-ii) in proportion to the LTA quantum with other applicable IPPs.
- (c) The sharing of Charges shall be as per CERC Regulations as amended from time to time.
- (d) LTA shall be effective from the date of availability of identified transmission system strengthening or date of LTA sought whichever is later.

2. NTPC Ltd. – Lara-I (1600MW)

Long term Access has been sought by M/s NTPC Ltd. for their 1600MW proposed Lara generation project in Distt. Raigarh, Chhattisgarh. A brief on the proposal of above application is as under:

I. Details of the application is as under :

S.No.	Particulars	NTPC Ltd. Lara-I (1600MW)
1	Capacity for which LTA is required (MW)	1586.51 MW Target Beneficiary/ Region : WR CSPDCL – 793.25MW ; MP TRADECO – 130.68MW; GUVNL–180.71MW; MSEDCL – 226.21MW; GOA – 8.97MW UT DNH – 5.29MW ; UT DD – 3.42MW
2	Date from which LTA is Required	Unit I - 31.05.2015 (793.25MW) Unit II - 30.11.2015 (1586.51MW) Upto 30.11.40 (25 years)
3	Location of Generating Station	Village/Town- Chhapora/Lara/Lohakhan, District- Raigarh, Chhattisgarh
4	Installed Capacity (MW)	2x800=1600
5	Commissioning schedule (Unit Wise) as per the connectivity application	U-1: Oct'15 U-2 : Apr'16
6	Step up voltage of Generating station (kV) as agreed in 14 th meeting of WR	765kV

	Constituents	
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II. Status of Generation project

As per the application, the status of generation project is as follows:

S. No.	Item	NTPC –Lara-I (1600MW)
1.	Land	GoC accorded in principle land availability
2.	Environmental clearance	TOR of EIA approved by MoEF & EIA report Available. Application for public hearing being submitted.
3.	Fuel Arrangement	Talaipalli & Pakri – Barwadih mines (captive coal blocks) being developed by NTPC
4.	Water arrangement	Water source shall be Mahanadi River. Water commitment for 45 cusecs available from state govt

III. Proposal for LTA

In the 14th meeting of WR Constituents, based on the project progress as well as the proximity of the generation project, following “in principle” connectivity was agreed:

- Lara-I TPS – Raigarh Pooling Station(Kotra) 765kV D/c

It was also decided and agreed that connectivity shall be granted based on the progress of the generation project in terms of at least 70% land under possession, availability of LOA for fuel linkage, environment and forest clearance etc. Project progress shall be assessed in quarterly review meetings.

Subsequently, M/s NTPC applied for long term access for transfer of 1587 MW power from Lara TPS to target beneficiaries in WR. Above application/proposal has been studied and following is proposed:

- (a) It is proposed to provide long term access to M/s NTPC for transfer of 1587 MW power from Lara TPS to target beneficiaries in WR with following system strengthening scheme:
- (i) **Transmission system strengthening in WR-NR tr. Corridor (To be shared along with other IPPs)**
- Upgradation of \pm 800kV, 3000MW HVDC bipole between Champa Pooling Station – Kurukshetra(NR) to 6000MW
 - Kurukshetra (NR)–Jind 400kV D/c(Quad)
 - Kurukshetra (NR)–suitable location near Ambala 400kV D/c(Quad)

It is to mention that a High capacity transmission corridor has already been planned along with IPPs in Chhattisgarh which involves various high capacity 765kV transmission lines towards load centers in WR. Above proposed transmission system strengthening shall facilitate strengthening of WR-NR HVDC Corridor therefore power transfer to WR beneficiaries shall be met on the basis of displacement.

- (b) As informed by NTPC, beneficiaries have agreed for subsequent signing of all necessary agreements including BPTA/LTA agreement with

POWERGRID/transmission licensee. In view of the above, beneficiaries shall sign BPTA/LTA agreement with POWERGRID for sharing of WR regional transmission charges corresponding to 1587MW and other applicable charges as per CERC norms. In addition, beneficiaries shall share the transmission charges towards additional system strengthening as indicated above (a) as well as for identified high capacity transmission corridors associated with IPPs in Chhattisgarh in proportion to their LTA quantum.

- (c) The sharing of Charges shall be as per CERC Regulations as amended from time to time.
- (d) LTA shall be effective from the date of availability of identified transmission system strengthening or date of LTA sought whichever is later.

3. NTPC Ltd - Barethi (6x660MW)

Long term Access has been sought by M/s NTPC Ltd. for their 3960MW proposed generation project in Distt. Barethi, MP. A brief on the proposal of above application is as under:

I. Details of the application is as under:

S.No.	Particulars	NTPC Ltd.-Barethi-I (6x660MW)
1	Capacity for which LTA required (MW)	3926.61MW Target Beneficiary/Regions: WR/NR MP TRADECO – 1963.30 MW UPPCL – 1374.31 MW
2	Date from which LTA Required	Unit I - 31.07.2015 (654.43MW) Unit II – 31.01.2016 (1308.87MW) Unit III – 31.07.2016 (1963.30MW) Unit IV – 31.01.2017 (2617.74MW) Unit V – 31.07.2017 (3272.17MW) Unit VI – 31.01.2018 (3926.61MW) Upto 31.01.43 (25 years)
3	Location of Generating Station	Village/Town-Barethi & Sandni, District- Chattarpur, Madhya Pradesh
4	Installed Capacity (MW)	3960MW
5	Commissioning schedule (Unit Wise) as per the connectivity application	U-1: Oct'15, U-5: Oct'17 U-2: Apr'16, U-6: Apr'18 U-3: Oct'16 U-4: Apr'17

6	Step up voltage of Gen. station (kV)	765
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II. Status of Generation project

As per the application, the status of generation project is as follows:

S. No.	Item	NTPC Ltd- Barethi (6x660MW)
1.	Land	GoMP accorded land availability clearance
2.	Environmental clearance	TOR of EIA study approved by MoEF. EIA study under progress
3.	Fuel Arrangement	MOP recommended to MoC for coal linkage
4.	Water arrangement	GoMP accorded commitment of 125 cusecs of water from Ken river

III. Proposal for Connectivity/LTA

In the 14th meeting of WR Constituents, based on the project progress as well as the proximity of the generation project, following "in principle" connectivity was agreed:

- LILO of 765 kV Satna – Gwalior S/c at Barethi STPP

It was also decided and agreed that connectivity shall be granted based on the progress of the generation project in terms of at least 70% land under possession, availability of LOA for fuel linkage, environment and forest clearance etc. Project progress shall be assessed in quarterly review meetings.

Subsequently M/s NTPC applied for long term access for transfer of 3927 MW power from Barethi TPS to target beneficiaries in WR/NR. Above application/proposal has been studied and following is proposed:

- (a) It is proposed to provide long term access to M/s NTPC for transfer of 3927 MW power from Barethi TPS to target beneficiaries in WR/NR with following system strengthening scheme:

(i) Transmission system strengthening for NTPC-Barethi

- Barethi TPS – Jabalpur Pool 765kV D/c line

(ii) Transmission system strengthening in WR (to be shared with other IPPs)

- Jabalpur Pooling Station – Bina 765kV S/c line (3rd) (*being implemented through pvt. Sector*)

(iii) Transmission system strengthening in WR-NR tr. corridor (to be shared with other IPPs)

- Jabalpur Pooling station – Orai 765 kV D/c (one ckt)
- Orai – Bulandshahar – Sonipat 765 kV D/c (one ckt)
- Sonipat-Kaithal 400kV D/c (Quad)

- (b) As informed by NTPC, beneficiaries have agreed for subsequent signing of all necessary agreements including BPTA/LTA agreement with POWERGRID/transmission licensee. In view of the above, beneficiaries shall sign BPTA/LTA agreement with POWERGRID for sharing of WR & NR regional transmission charges corresponding to 3927MW & 1374 MW respectively and other applicable charges as per CERC norms. In addition, beneficiaries shall also share the transmission charges towards additional system strengthening as indicated above (a) as well as identified high capacity transmission corridors associated with IPPs in Chhattisgarh in proportion to their LTA quantum..
- (c) The sharing of Charges shall be as per CERC Regulations as amended from time to time.
- (d) LTA shall be effective from the date of availability of identified transmission system strengthening or date of LTA sought whichever is later.

4. MP Power Trading Co. Ltd. (420MW)

Long term Access has been sought by M/s MP Power Trading Co. Ltd (MP Tradeco) for drawing 420MW power from M/s MB Power (MP) Ltd from its 2x600MW power project in Dist. – Anuppur (M.P.). A brief on the proposal of above application is as under:

I. Details of the application is as under :

S.No.	Particulars	
1	Capacity for which LTA is required (MW)	420 MW Target Beneficiary :MP Discom thru MP Tradeco MP Discom- 420MW
2	Date from which LTA is Required	1 st Aug'13
3	Location of Generating Station	M/s MB Power (MP) Ltd., Distt.-Anuppur, State- Madhya Pradesh
4	Installed Capacity (MW)	1200MW
5	Commissioning schedule (Unit Wise)	U1 – Aug'13 U2 – Dec'13
6	Step up voltage of Generating station (kV)	400kV

II. Proposal for LTA

M/s MB Power MP Ltd has been granted Connectivity (1200 MW) and Long term Access for transfer of 392 MW power, as per CERC regulation 2009, from their proposed generation project [2x600 MW] in Distt Anuppur, MP.

Connectivity for the above project was provided with direct interconnection at 400kV Jabalpur Pooling Station through MB TPS – Jabalpur Pooling Station 400kV D/c (Triple) line. Above transmission connectivity is already under implementation by POWERGRID.

MP Tradeco has signed PPA with M/s MB Power MP Ltd for drawing 420 MW power from above 2x600 MW power project in Distt. Anuppur. As per the provisions of PPA, MP Tradeco shall arrange for evacuation of 420 MW power from the project Bus bar. Accordingly, MP Tradeco has applied for LTA for transfer of 420 MW from above generation project for drawl by MP Discom through MPPTCL at various CTU-STU (MPPTCL) interconnection points.

(a) Keeping in view the above power transfer requirement on LTA, it is proposed to provide long term access to MP Tradeco for transfer of 420 MW power from MB TPS to its beneficiaries i.e. MP Discom through MP Tradeco at CTU-STU interconnection point (s) along with following system strengthening scheme:

(i) MP Tradeco shall utilize connectivity transmission system i.e. MB TPS – Jabalpur Pooling Station 400kV D/c (Triple) line therefore Transmission charges for above scheme shall be shared along with M/s Moser Baer.

(ii) Transmission system strengthening in WR

- Jabalpur Pooling Station – Bina 765kV S/c(3rd) (along with associated bays/reactors) (*being implemented through tariff based competitive bidding*)

Transmission charges for above strengthening scheme shall be shared along with M/s Moser Baer and other IPPs.

(iii) Common Transmission Corridor

- Jabalpur Pooling Station – Bhopal – Indore 765kV S/c (along with associated bays/reactors) (*being implemented through tariff based competitive bidding*)
- Establishment of 765/400kV, 2x1500MVA Jabalpur Pooling Station

Transmission charges for above common transmission system strengthening scheme shall be shared along with M/s Moser Baer, IPPs in Orissa (6080 MW) and other IPPs.

(b) MP Tradeco shall sign the BPTA with POWERGRID /Tr.licensee for sharing of transmission charges corresponding to above transmission system strengthening (a) & (b).

(c) The sharing of Charges shall be as per CERC Regulations as amended from time to time.

(d) LTA shall be effective from the date of availability of identified transmission system strengthening or date of LTA sought whichever is later.

c. For all the generation projects who have applied for Connectivity under CERC regulation, 2009, in addition to other applicable provisions in CERC regulations 2009 on Grant of connectivity, Long Term Access and Medium-term Open Access in inter-state transmission and related matters, following are to be noted:

- i) The grant of connectivity shall not entitle above applicants to interchange any power with the grid unless they obtains long-term access, medium term open access or short term open access. However, the above IPP shall be allowed to undertake interchange of power including drawl of power for commissioning activities and injection of infirm power in to the grid during full load testing before being put into commercial operation, even before availing any type of open access, after obtaining permission of the concerned regional load dispatch centre, which shall keep grid security in view while granting such permission.
- ii) Above applicants are required to inform/confirm following to facilitate connectivity:
 - i) Likely date of synchronization, likely quantum and period of injection of infirm power before being put into commercial operation to the SLDC and RLDC concerned at least one month in advance.
 - ii) In case the dedicated transmission system upto point of connection is to be undertaken by Inter-State Transmission Licensee, the applicants need to sign transmission agreement with CTU within one month of grant of connectivity, furnish requisite Bank Guarantee and fulfill other terms & conditions as stipulated in the CERC Regulations/Detailed Procedure, 2009 in this regard.
 - iii) The applicants shall abide by the provisions of all applicable Regulations, Notifications, Guidelines, Acts, Codes, Rules and amendments thereof from time to time including Electricity Act, 2003, CERC (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State transmission and related matters) Regulations, 2009, CERC (Sharing of Inter State Transmission Charges and losses) Regulations, 2010, CEA (Technical Standards for connectivity to the Grid) and CERC [Indian Electricity Grid Code] Regulations 2010.
- iv) All the applicants shall have to apply for "Connection Offer" to CTU at least more than 2 years prior to physical interconnection as well as have to sign "Connection Agreement" with CTU prior to physical interconnection as per CERC Regulations, 2009.

d. For the grant of LTA, following are to be noted:

- i) LTA shall be effected subject to that applicant shall have to firm up PPA at least for 50% of LTA quantum 3 years prior to the intended date of availing LTA as per CERC regulations, 2009 and intimate to POWERGRID.

- ii) For the balance capacity (not exceeding 50% of LTA sought for) for which exact source of supply or destination could not be firmed up on long-term basis, the augmentation/system strengthening further from the target region shall be taken up only after identification of exact source/destination. CTU shall be allowed up to 3 years time for such augmentation/system strengthening from the target region to the exact source/destination. During such period applicants shall be liable to pay the transmission charges up to the target region.
- iii) Applicant/beneficiaries shall share the transmission charges of the above proposed strengthening schemes as per the CERC Regulations as amended from time to time.
- iv) Payment of such transmission charges for the balance capacity for which exact source on long term basis is not known, shall not entitle the applicant any right over the transmission system up to the target region and CTU may release this balance transmission capacity up to target region for short-term open access or the medium term open access till the applicant firms up source/destination on long-term basis and its operationalisation.
- v) The applicant shall enter into long term access agreement (BPTA) with POWERGRID within 30 days of receipt of draft BPTA/TSA. In case transmission system of Inter state transmission licensee other than CTU is used, an agreement shall be signed between the applicant and such inter-State transmission licensee, in line with the provisions of the CERC regulations 2009.
- vi) Implementation of System augmentation/strengthening required to effect LTA, shall be taken up by Inter-state tr. licensee only after fulfillment of conditions under para (i) above as well as signing of BPTA/TSA & submission of required BG by applicant as per provision of CERC regulations 2009.
- vii) The nodal agency may change system strengthening requirements identified for a particular applicant project on the basis of any subsequent study carried out on its own motion or on another application for LTA, with the purpose of optimum utilization of the transmission system or to conserve limited right-of-way, and in such event, the changes carried out by the nodal agency shall be intimated to the applicant, or any other person associated with the LTA. Provided that the optimized system shall not work to the disadvantage of the applicant.
- viii) The applicants shall abide by the provisions of all applicable Regulations, Notifications, Guidelines, Acts, Codes, Rules and amendments thereof from time to time including Electricity Act, 2003, CERC (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State transmission and related matters) Regulations, 2009, CERC (Sharing of Inter State Transmission Charges and losses) Regulations, 2010, CEA (Technical Standards for connectivity to the Grid) and CERC [Indian Electricity Grid Code] Regulations 2010.

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C. Other Agenda Items

1.0 Modification of LTOA Quantum/Commencement of LTOA of Bina Power Supply Company Ltd.

M/s Bina Power Supply Company Ltd. had been granted LTOA for transfer of 265.35MW power [Target beneficiaries: WR- 132.68MW, NR- 132.67MW] from their 2X250 MW Bina TPS in Dist. Sagar, M.P., as per CERC (Open Access in ISTS) Regulations, 2004. It was also agreed that balance 210 MW shall be transferred to MPPTCL at 400kV Bina(MPPTCL) S/s through 400kV Bina TPS- Bina(MPPTCL) line.

Subsequently, M/s Bina vide letter dated 02.08.11 informed that as per their renewed agreement with GoMP they have to supply 70% of gross power directly to MPPTCL instead of earlier agreed 42%. In this regard, applicant has requested to reduce quantum of power to be transmitted to ISTS for 137.5 MW under LTOA against earlier 265.35 MW. In addition, date of commencement of above open access was from Sep'11 i.e schedule of 1st unit of above generation project. In this regard applicant has informed that due to unavoidable circumstances and site constraints the commissioning schedule is being revised to U#1- Mar'12 U#2- Jun'12.

Members may discuss.

2.0. Connectivity/LTOA application withdrawn by M/s Prakash Industries Ltd (PIL)

In 31st/32nd meeting of Standing Committee of WR/ as well as 14th/13th Meeting of WR constituents regarding Connectivity/LTOA, LTOA was granted to M/s Prakash Industries Ltd (PIL) CPP (5x25MW+2x100MW+2x150MW) in Chhattisgarh for transfer of 500 MW power to WR/NR. Subsequently, M/s Prakash Industries Ltd (PIL) informed that PIL have planned to utilize the whole power for its own use/captive requirement and therefore PIL will not have any surplus Power to inject in the grid. In this regard, applicant has informed its application for Connectivity and LTOA stands withdrawn.

Members may note.

3.0. Applications for Grant of MTOA

Proposal for grant of MTOA for applications of Electricity Department UT DNH and SAIL- VISP for transfer of 32MW and 10.92MW respectively from NSPCL (2x250MW) generating station in Bhilai were earlier circulated to WR Constituents and respective SR constituents/SRLDC vide agenda dated 29.08.11.

As no observation was received except from WRLDC, MTOA was granted to Electricity Department UT DNH for transfer of 32 MW to UT DNH and SAIL-VISP for 10.92 MW to Karnataka in SR from 500MW NSPCL (Bhilai) generating station in Chhattisgarh from the network considerations. MTOA has been granted to UT DNH for the period of 0.1.11.11 to 31.03.12 and SAIL-VISP from 01.11.11 to 31.05.11 or signing of MTOA/TSA agreements which ever is later.

To affect MTOA, UT DNH & DD shall have to sign applicable transmission agreements as per CERC norms.

4.0 Interim transmission system arrangement for IPPs in WR

(i) M/s Spectrum Coal & Power Ltd (SCPL), Chhattisgarh

M/s SCPL has been granted LTOA for transfer of 100 MW power with dedicated interconnection of Spectrum generation project with ACB (I) (270 MW) gen. project (erstwhile Aryan Coal) which in turn shall be interconnected at 400kV WR Pooling Station (Bilaspur) through a D/c line (being developed by M/s ACB(I)) as well as availability of 765/400kV WR Poling Station (Bilaspur).

M/s SCPL vide its letter dated 29.09.11 informed that their project (U#1- 50 MW) is scheduled for commissioning by Dec'11 however they also intend to draw start up power from Oct'11. M/s SCPL also informed that there is no interconnection of M/s SCPL and ACB(I) with Chhattisgarh STU network. Therefore it was requested to provide some interim arrangement till the availability of 765/400kV WR Poling Station (Bilaspur) for evacuation of power from the project for the interim period between commissioning of the generation project and commissioning of the identified transmission system.

In the 14th meeting of WR constituents held on 13.05.11, M/s ACB(I) Ltd was provided an interim arrangement through LILO of 400kV Korba-Bhatapara S/c line at Aryan TPS. This LILO was agreed as an interim arrangement till availability of 765/400kV WR Pooling (Bilaspur) station. Further, till the availability of planned system strengthening, power transfer shall be effected on short term basis depending on the transmission capacity margin available.

In view of the Spectrum TPS to be connected with ACB(I) switchyard at 132kV level, it is proposed that above interim transmission arrangement may also be considered for Spectrum Coal TPS. Further, till the availability of planned transmission system, power transfer shall be effected depending on the transmission capacity margin available on short term basis. In case of any transmission constraints, Spectrum TPS and Aryan TPS would have to be backed down.

Members may discuss.

(ii) IPPs in Chhattisgarh

(a) SKS Power Generation (Chhattisgarh) Ltd. (4x300 MW)

M/s SKS Power Generation (Chhattisgarh) Ltd. has been granted LTOA for transfer of power from their 1200 MW generation project in Chhattisgarh. M/s SKS Power Generation (Chhattisgarh) Ltd. informed that their generation project is likely to be commissioned in 2013 (U#1: Jul'13 U#2: Aug'13). Further the plant would need about 30 MVA start-up power by Jan'13. In view of the start-up power requirement for

commissioning activities from Jan'13 onwards, M/s SKS Power requested for an interim transmission arrangement. Considering the commissioning schedule as well as progress of the project, following Interim transmission arrangement has been identified.

- LILO of one ckt of Raigarh – Raipur 400kV D/c at SKS TPS

Members may discuss.

(b) Lanco Power Ltd (2x660 MW)

M/s Lanco Power Limited was granted LTOA for transfer of power from its 1320MW (U3: 660MW & U4: 660MW) generation project with dedicated transmission system i.e. Lanco TPS- Champa Pooling Station 400kV D/c line along with High Capacity Transmission corridor for IPPs in Chhattisgarh. M/s Lanco has informed their unit commissioning schedule as Sep'12 onwards. Keeping in view the commissioning schedule of 765/400kV Champa Pooling station, M/s Lanco has requested for interim transmission arrangement.

M/s Lanco Unit 1&2 (600 MW) is already connected through 400kV Korba-Sipat/Raipur S/c line [U#2 with interim transmission arrangement]. However it was proposed that this generating station shall be finally connected to WR Pooling Station (Bilaspur) through a dedicated 400kV D/c line, which is being implemented by M/s Lanco Power.

Considering above, following interim transmission arrangement for U-3 & 4 is proposed:

- Lanco U3&4 may be connected to WR Pooling station through 400kV Lanco TPS- WR Pooling station(Bilaspur) D/c line along with bus sectionalisation open with 600MW unit bus till the availability of 765/400kV Champa Pooling Station
- Lanco U1&2 may be continued to be interconnected through LILO of 400kV Korba-Sipat/Raipur S/c line till the availability of 765/400kV Champa Pooling Station

Further, till the availability of planned transmission system, power transfer from U-2 & U-3/4 shall be effected depending on the transmission capacity margin available on short term basis. In case of any transmission constraints, Lanco TPS (U1/2/3/4) would have to be backed down.

Members may discuss.

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