

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



केन्द्रीय कार्यालय : "सौदामिनी" प्लॉट सं. 2, सैक्टर-29, गुडगाँव-122 001, हरियाणा
फोन : 0124-2571700-719, फैक्स : 0124-2571760, 0124-2571761 तार 'नेटग्रिड'
Corporate Office : "Saudamini" Plot No. 2, Sector-29, Gurgaon-122 001, Haryana
Tel. : 0124-2571700-719, Fax : 0124-2571760, 0124-2571761 Gram : 'NATGRID'

संदर्भ संख्या / Ref. No.

C/ENG\E\00\SEF\OA

To

Date: 26-12-2012

As per the enclosed list

Onissa of
Sub: Meeting with Phase-2 IPP developers in Eastern Region in regard to their
Connectivity / MTOA / LTOA / LTA Applications

Dear Sir,

Onissa
A meeting with Phase-2 Connectivity/LTOA/LTA applicants in Eastern Region is scheduled
to review the status of development of the generation project and discuss the proposed
evacuation system along with the standing committee meeting of Eastern Region.

The date, time and venue of the meeting is as given below :

Date : 05-01-2013 **Time :** 3.00 P.M. onwards

Venue: 5th Floor Auditorium
POWERGRID Corporation of India Ltd.
Plot-2, Sector-29, Gurgaon-122002 (Haryana)

Contact : Ashok Pal, DGM (CTU) - 9910378105, Ramchandra, CM (CTU) - 9910378128

Representatives of applicants are requested to attend the above meeting with the detailed
progress report containing status of all statutory clearances, awards of various packages
and schedule of completion of their generation project. It is also requested to furnish the
information as per format enclosed at **Annexure-1** before the meeting (to mail ID
ramachand@powergridindia.com and ashok@powergridindia.com).

Thanking you,

Yours faithfully,

for. Ashok Pal.

(Y. K. Sehgal)

Chief Operating Officer (CTU)

STATUS OF THE GENERATION PROJECT

Applicant Name/ Gen. Capacity :

SI No	Item	Status / Information
1.	Generation location	
	Location of power project (name of village/town, district/State)	
	Detail vicinity map of the project site on topo sheets to gather relative locations of other generation projects in the vicinity	
	Latitude & Longitude of the project site	
2.	Land	
	Total Land required for the project	
	Type of Land proposed (Govt or private)	
	Area of land already acquired & possessed (i) Govt (ii) Private	
	Status of land to be acquired like date of notification for and acquisition	
	Status of possession of land	
3.	Fuel	
	Type of Fuel (Gas/domestic coal/imported coal/Hydro)	
	Status of fuel tie-up for the total quantity of fuel required to generate full power at normative availability. Indicate status of mine allocation or fuel linkage	
4.	Water	
	Status of in-principle approval from concerned State irrigation department Date of application, likely date by which it shall be available	
5.	Water Supply arrangement /Pipeline connection	
6.	Environment Clearance	
	Status of in-principle approval from concerned administrative authority responsible for according final approval in the central/State govt as the case may be. Date of application, likely date by which it shall be available.	
7.	Forest Clearance:	
	Status of in-principle approval from concerned administrative authority responsible for according final approval in the central/State govt as the case may be. Date of application, likely date by which it shall be available.	
8.	EPC Contract Status	
	Date/ Likely date of placement of contract for main plant	
	Date/Likely date of placement of contract for Boiler	
	Date/Likely date of placement of contract for Turbine/Generator	
9.	Status of PPA with beneficiaries including case-1 bids if applied for	
10.	Proposed Date of financial closure	
11.	Expected commissioning schedule (unit wise)	Unit-1(MW)- Unit-2(MW)-

Chief Engineer (SP & PA), Central Electricity Authority, Sewa Bhawan, R. K. Puram, New Delhi - 110066.	Member Secretary, Eastern Regional Power Committee, 14, Golf Club Road, Tollygange, Kolkata-700033.
Member (Transmission), Bihar State Electricity Board Vidyut Bhavan, Baily Road, Patna-80002 I.	Director (Commercial), Grid Corporation of Orissa Ltd, Jan path, Bhubaneshwar-751 022.
Director (Engineering), Orissa Power Transmission Corporation Ltd, Jan path, Bhubaneshwar-751 022.	Director (System Operation), West Bengal State Electricity Transmission Company Ltd, Vidyut Bhavan, 5th Floor, Block-D, Bidhannagar, Sector-II Kolkata-700091.
Principal Chief Engineer cum Secretary, Power Department Government of Sikkim, Sikkim.	Director (Technical), NTPC Limited, Engineering Office Complex, A-8, Sector 24, Noida.
Member (Transmission), Jharkhand State Electricity Board, Engineering Building, HEC, Dhurwa Ranchi-834002	Executive Director (T&RE), NHPC Ltd, NHPC Office complex, Sector 33, Faridabad-121003.
General Manager, Eastern Regional Load Dispatch Center, 14 Golf Club Road, Tollygunge, Kolkata-700033.	Director (System), Damodar Valley Corporation DVC Towers, VIP Road, Kolkata-700054.

Copy for kind information :

Member (Power System),
Central Electricity Authority,
Sewa Bhawan, R. K. Puram,
New Delhi - 110066.

IPP projects in Orissa

<p>Shri KRC Shekhar Vice President NSL Orissa Power and Infratech Pvt. Ltd. HIG – 8, 1st Floor, Gangadhar Meher Marg, Jayadev Vihar, Bhubaneswar – 751013 Orissa Ph : 07894466550, 0674-2300299 / 2300809 Fax : 0674-2300299 Email ID : shekhar.krc@nslpower.com</p>	<p>Shri Pramod Kumar Patro DGM(Elect.), CPP National Aluminium Company Ltd. Smelter & Power Complex Angul, Odisha Phone : 06764-220985; 09437020985 Fax : 06764-221923 Email : pkpatro@nalcoindia.co.in</p>
<p>Shri Ashok K. Bhargava Chief Executive Officer Sahara India Power Corp. Ltd. Sahara India Centre 5th Floor, 2, Kapoorthala Complex Aliganj, Lucknow – 226024, UP Ph : 0522-2333886, 2332018, 2331408, 9307474747, 9839011205, 9937291060 Fax : 0522-2333886, 2330135 Mail : ashoka_bhargava@yahoo.co.in</p>	<p>Shri Rahul Sengupta Executive Vice President Bhusan Energy Ltd., F-Block, 1st Floor, International Trade Tower, Nehru Place, New Delhi -110019 Ph : 09899655551, 011-39194000 Fax : 011-26478750 Email ID : rsengupta@bhushansteel.com</p>
<p>Shri Ritwik Mishra DGM(Commercial) Orissa Power Generation Corporation Ltd. (OPGC) Zone-A, 7th Floor, Fortune Towers Chandrasekharapur, Bhubaneswar – 751023 Odisha Ph : 0674-2303765, 9937022477 Fax : 0674-2303755 Mail : Ritwik.mishra@aes.com</p>	<p>Shri C. Narasimha Head-Electrical J R Power Gen Private Ltd., 8-2/293/82/A/431/A, Road No:22, Jubilee Hills. Hyderabad-500033, Ph : 040-23559922-25, 09177029345 Fax : 040-23559930 EmailID: narasimha@ksk.co.in</p>
<p>Shri D. Vijay Bhaskar President NSL Nagapatnam Power & Infratech Pvt. Ltd. NSL Icon, 4th Floor, 8-2-684/2/A Road No. 12, Banjara Hills Hyderabad - 500034 Ph : 91-40-30514444 Fax : 91-40-23327919 Mail : vijaybhaskar.d@nslpower.com</p>	<p>Shri S.M Devaraj Vice Prseident(Projects), 607-609, Merchantile House, 15, KG Marg, New Delhi-110001. Mob: 09810700318. E-Mail: smdevaraj@visapower.net</p>
<p>Shri Purushottam Thakur General Manager-Projects Tata Power Company Ltd. HIG-22, BDA Colony, Jaydev Vihar Bhubaneswar-751013 Ph : 09238003939, 0674-2302151 Fax : 0674-2302151 Email ID: thakurp@tatapower.com</p>	<p>Shri S.K Banerjee CESC Ltd. ,CESC House Chowringhee Square, Kolkata – 700001 Ph : 09748740798, Fax : 033-22251352 Email ID: sk.banerjee@rp-sg.in</p>

<p>Shri K. V. V. Rao Director, GMR Energy Ltd. 10th Floor, C&D Block IBC Knowledge Park, Opposite Fire Station, Bannerughatta Road Bangalore – 560029 Ph : 080-40432049, Mob :09845221828 Fax: 080-40432144 Email ID : kvv.rao@gmrgroup.in</p>	<p>Shri Punit Gupta Director Jindal India Thermal Power Ltd. B-1, Local Shopping Complex Vasant Kunj, New Delhi – 110 070 Ph : 9810155662 Fax: 011-26125739 Email ID: punit_gupta@jindalgroup.com</p>
<p>Shri R. K. Singh Sr. Vice President Sterlite Energy Ltd. Project Site Office Bhurkhamunda, P.O. – Sripura Distt : Jharsuguda (Odisha)-768202 Ph : 06645-26600 Fax : 06645-266679/80 Email ID: ramesh.singh@vedanta.co.in Mobile : 09777451777</p>	<p>Shri Ashwani Sharma Project Incharge Orissa Integrated Power Ltd. C/o Power Finance Consulting Ltd. 1st Floor, Urja Nidhi 1, Barakhamba Lane, Connaught Place New Delhi – 110 001 Fax : 011-23456584 Mail : ashawni.sharma@pfc.delhi.nic.in ashwani301@rediffmail.com</p>
<p>Shri A.Basu Roy Deputy General Manager NTPC Ltd (Darlipali) NTPC Bhavan, Core-7, Scope Complex, 7, Institutional Area, Lodhi Road, New Delhi-110003 Ph : 011-24364383,09650990231 Fax : 011-24360328 Email ID: abasuroy@ntpc.co.in</p>	<p>Shri S.S Mishra AGM (Elect) NTPC Ltd (Gajmara) Engineering Office Complex, A-8A, Sector-24, Noida-201301 (U.P) Ph :09650991145 Fax : 0120-2410108 Email ID: ssmishra@ntpceoc.co.in</p>
<p>Shri Subrata De AGM (Engg) NTPC-SAIL Power Co. Ltd. 4th Floor, NBCC Tower 15, Bhikaji Cama Place, New Delhi – 110066 Ph : 09650994516 Fax : 011-26717364 E-Mail : subratade.ntpc@gmail.com</p>	<p>Shri Swadhin Samantaray General Manager – Marketing BGR Odisha Powergen Ltd. #443, Anna Salai, Teynampet Chennai – 600018 Ph : 044-24327535, 24334940 Mob : 09840410072 E-Mail : swadhin@eed.bgrenergy.com;</p>

Agenda for Connectivity and Long Term (Open) Access of IPP Generation Projects in Odisha of Eastern Region

1.0 Applications for Connectivity and Long Term (Open) Access.

Applications for grant of Connectivity and Long Term (Open) Access (LTOA / LTA) have been received by POWERGRID from the following applicants for Phase-II generation projects in Odisha.

Sl No	Project/Applicant	Unit Size	Ins. Capacity (MW)	Connectivity / LT(O)A(MW)	Time Frame	Applied for
1	CESC Ltd.	2x660	1320	900/900	Mar'15/Mar'15	LTOA
2	VISA Power Ltd	2x660	1320	1250/842	Sep'13/Sep'14	Connectivity & LTA
3	NSL Odisha Power & Infratech	2x660	1320	1240/	Dec 15/	Connectivity
4	Tata Power company Ltd	2x660	1320	1000/1000	Jan'16/Jan'16	Connectivity & LTA
5	GMR Kamalanga Energy (Ph-II)	1x350	350	220/220	Dec'13	Connectivity & LTA
6	J R Power Gen Pvt Ltd	3x660	1980	1980/1830	Jun'14/Nov. 14	Connectivity & LTA
7	Jindal India Thermal (Phase-II)	1x600	600	522/522	Sep'13/Sep'13	Connectivity & LTA
8	Sterlite Energy Ltd.	(Phase-I project)		/1000	Commissioned	LTA
9	Sahara India	2x660	1320	1100/	Sep'14/	Connectivity
10	Odisha UMP	5x800	4000	4000/4000	Mar'16/Mar'16	LTOA
11	OPGC	2x660	1320	618/600	Jan'16/Apr'16	Connectivity & LTA
12	Darlipalli(NTPC)	2x800	1600	1600/793.25	Oct'14/May'15	Connectivity & LTA
13	Gajamara(NTPC)	2x800	1600	1600/	Aug'14/	Connectivity
14	Bhushan	4x660	2640	2640/	Jan 16/	Connectivity
15	Nalco	2x250	1000	430/	Jan 15/	Connectivity
16	NTPC-SAIL Power Company Ltd	1x250 (at 220kV Captive)	250 (excl. exis: 2x60MW)	250	2016-17	Connectivity
17	BGR Energy	2x660	1320	1320/	2016	Connectivity
18	NSL Nagapatnam Power&infratech (Earlier Mahanadi Aban Power)	2x660	1320	850/	Jan'2016	Connectivity
	Subtotal		24580	21520 / 11707.25		

2.0 Previous Meetings / deliberations

2.1 Transmission system for evacuation of power from phase-II generation projects in Odisha was discussed in Standing Committee / Long Term Access meeting held on 28-10-2010. Based on progress of generation projects, intimation for grant of Connectivity / LTA was issued to Sterlite (Phase-II), GMR (Phase-II),

Tata & CESC on 03-01-2011. Subsequently, Odisha raised objections regarding arrangement for drawl of state share from IPPs.

- 2.2 The scheme was discussed in various meetings including ERPC forum and Standing Committee / LTA meetings but the transmission system for the state could not be finalized.
- 2.3 In the standing committee meeting held on 08-Feb-2012 at NRPC, New Delhi, it was decided that there would be no change in the transmission system planned for Phase-I generation projects in Odisha, which is already under implementation. In this meeting, Darlipalli of NTPC was granted connectivity.
- 2.4 In the above meetings, it was clarified that CTU is mandated to provide non-discriminatory open access to any generation project for use of ISTS in accordance with CERC Regulation. The grant of LTA for transfer of power through ISTS system for a generation project, either directly or via STU system, is considered based on the power injected from the project to the ISTS substation. It was indicated that OPTCL may plan intra-state transmission system for drawl of required quantum of power out of their total share. For transfer of the remaining power to other states/region through ISTS system, OPTCL may apply LTA to CTU.
- 2.5 It was decided in the meetings that OPTCL shall discuss with the developers of generation project for their willingness to get connected to STU system. Based on this, OPTCL shall come out with their plan of intra-state transmission system for drawl of their required quantum of share of power, which could be finalized after discussion with CEA, CTU and generation developers.
- 2.6 POWERGRID vide its letter dated 27-06-2012 to all the applicants with a copy to OPTCL and CEA explained the present position of the proposed transmission system and requested the applicants to intimate the detailed progress report of their generation projects and their plan for transfer of share of Odisha.
- 2.7 OPTCL vide letter 13.07.2012 informed that they have filed a case in OERC on evacuation of State's share of power from IPPs. After disposal of the case, STU and CTU will have a coordinated plan without burdening the state consumers with unnecessary ISTS Charges. Until such time, OPTCL requested to withhold the connectivity permission to Phase-II IPPs.
- 2.8 Subsequently a meeting was held among CEA, OPTCL, GRIDCO and POWERGRID on 10th Dec., 2012 and further between POWERGRID and OPTCL/GRIDCO on 24th Dec., 2012, wherein the evacuation scheme for phase-II projects and delivery of share of power to the state of Orissa was discussed.

3.0 Direction from CERC

The CERC in its order dated 21-09-2012 in petition no. 158/MP/2012 regarding grant of connectivity to DPSC Ltd. has directed the CTU to ensure that the applications for connectivity and long term access and medium term open access are processed and decisions on the applications are conveyed within the timeline specified in the Connectivity Regulations.

4.0 Projects under advanced stage of implementation

Detailed status of the progress of generation projects furnished by respective generation project developers is enclosed at **Annexure-1**. As per the present progress furnished by respective generation developers, it emerges that following generation projects have achieved substantial progress:-

Sl. No	Project/Applicant	Unit Size	Ins. Capacity (MW)	Connectivity / LT(O)A(MW)	Time Frame	Applied for
1	NSL Nagpatnam Power & Infratech (Earlier Mahanadi Aban)	2x660	1320	850/0	Jan'16/	Connectivity
2	GMR Kamalanga Energy (Ph-II)	1x350	350	220/220	Dec'13	Connectivity & LTA
3	Sterlite Energy Ltd.	(Phase-I project)		0/1000	commissioned	LTA
4	OPGC	2x660	1320	618/600	Jan'16/Apr'16	Connectivity & LTA
5	Darlipalli(NTPC)	2x800	1600	1600/793.25	Oct'14/May'15	Connectivity & LTA
6	Bhushan	4x660	2640	2640/0	Jan 16/	Connectivity
7	Nalco	2x250	1000	430/0	Jan 15/	Connectivity
8	NTPC-SAIL Power Company Ltd	1x250 (at 220kV Captive)	250 (excl. exis: 2x60MW)	250/0	2016-17	Connectivity
	Subtotal		8480	6498/2613.25		

Here, it is to mention that intimation for grant of Connectivity / LTA was issued to Sterlite (Phase-II), GMR (Phase-II), Tata & CESC as per decision taken in the Standing Committee / Long Term Access meeting held on 28-10-2010. However, Tata has not yet signed the Long Term Access Agreement (LTTA). CESC has signed the LTTA but not yet submitted the requisite Bank Guarantee. The progress of Tata and CESC projects is not satisfactory. In view of the above, the above mentioned intimations need to be reviewed.

5.0 Transmission System proposed for Phase-II generation projects

Studies have been carried out to evolve the transmission system for evacuation and transfer of power from generation projects listed in item 4.0 above. In this regard, it to mention that a comprehensive transmission system comprising of

high capacity 765kV transmission corridor from Odisha to NR via WR for evacuation of power from phase-I IPPs (Installed Capacity: 10090 MW & LTA Quantum : 6080 MW) in Odisha is already under implementation which includes, 765/400 kV sub-stations at Angul and Jharsuguda alongwith 2 circuits of 765 kV from Angul to Jharsuguda and Jharsuguda to Dharamjaygarh. In addition another 765 kV D/c line in Angul-Jharsuguda-Dharamjayagarh corridor has been planned for evacuation of power from generation projects in Srikakulam area in Southern Region (Installed Capacity: 1320 MW, LTA Quantum: 1240 MW). Table at para 4.0 above indicates that phase-II generation projects in Odisha with about 8480 MW installed capacity and 2613 MW LTA capacity are expected to be commissioned by year 2016-17. In view of the above, total LTA quantum to be evacuated out of Odisha would be about 9900 MW (Phase-I: 6080 MW, Srikakulam : 1240 MW, Phase-II : 2613 MW). Out of this, 2 units of Lanco Babandh TPS under phase-I with LTA quantum of 800 MW may not materialize, reducing the above total to about 9100 MW. Out of 9100MW capacity about 5700MW generation would be injected at Angul while remaining about 3400MW power would be injected at Jharsuguda.

5.1 Transmission System for Immediate Evacuation

Transmission system for immediate evacuation of power from individual generation projects have been planned keeping in view the location of the generation project and quantum of power to be evacuated. Accordingly power from NSL & Bhushan projects is planned to be pooled at Angul whereas power from Sterlite, OPGC & Darlipalli projects is planned to be pooled at Jharsuguda. GMR project is already being connected to Angul sub-station through 400 kV D/c line and the same would be utilized for evacuation of additional power from 4th unit also.

NALCO is already connected to Meramundali 400/200 kV sub-station of OPTCL. The same may be utilized / augmented for the required connectivity of NALCO project.

The connectivity of NTPC-SAIL project could be provided through 220 kV line to Tarkera substation of OPTCL. Here, it is to mention that the transmission system proposed for connectivity will be only for connecting the generation project to the nearest grid point. The transmission system for transfer of power beyond the point of connectivity shall be evolved after receipt of application for Long Term Access.

In view of the above, following immediate evacuation system is proposed:

Sl. No.	Project/Applicant	Ins. Capacity (MW)	Connectivity / LT(O)A(MW)	Immediate Evacuation System
1	NSL Nagapatnam Power & Infratech (Earlier Mahanadi Aban)	1320	850/0	NSL Nagapatnam - Angul 400 kV D/c (triple snowbird)

2	GMR Kamalanga Energy Ltd (Phase-II)	350	220/220	Evacuation through Ph-I System i.e. GMR-Angul 400kV D/c line (already approved)
3	Sterlite Energy Ltd.	2400	0/1000	Sterlite – Jharsuguda 400 kV D/c (already approved)
4	OPGC	1320	618/600	OPGC – Jharsuguda 400 kV D/c (triple snowbird)
5	Darlipalli(NTPC)	1600	1600/793.25	Darlipalli – Jharsuguda 765 kV D/c (already approved)
6	Bhushan	2640	2640/	Bhushan – Angul 765kV D/c line
7	NALCO	1000	430/	NALCO - Meramundali 220 kV D/c line
8	NTPC-SAIL Power Company Ltd	250	250	NTPC SAIL - Tarkera 220 kV D/c line

5.2 Common Transmission System for power transfer to beneficiaries in different regions

As mentioned above, the transmission system for evacuation of power from phase-I & phase-II generation projects of Odisha as well as from Srikakulam generation project (in SR) need to be planned for 5700 MW injection at Angul and about 9100MW (including 5700 MW transferred from Angul) injection at Jharsuguda. Studies indicate that the 2 nos. 765 kV D/c lines already planned between Angul and Jharsuguda would be adequate to evacuate 5700 MW power being pooled at Angul. However, the 2 nos. 765 kV D/c lines already planned between Jharsuguda and Dharamjaygarh may not be adequate for the transfer of 9100MW beyond Jharsuguda. Accordingly, additional corridor with 765 kV D/c line from Jharsuguda to Raipur Pool in Western region has been planned. This corridor would provide additional path for transfer of power beyond Jharsuguda utilizing the 765kV transmission network planned in WR associated with generation projects in Chattishgarh.

Further, it is to mention that LILO of one Rourkela – Raigarh 400 kV D/c line at Jharsuguda is under implementation as part of phase-I transmission system. In order to strengthen the 400kV interconnection, it is proposed to LILO the 2nd Rourkela – Raigarh 400 kV D/c line at Jharsuguda.

Accordingly, following common transmission system is proposed:

- Angul – Jharsuguda – Dharamjaygarh 765 kV D/c line.

This line is being implemented as a part of evacuation system from generation projects in Srikakulam area of Andhra Pradesh in Southern region. The same would also be utilized for evacuation of power these generation projects

- Jharsuguda – Raipur Pool 765 kV D/c line.
- LILO of Rourkela - Raigarh 400 kV D/c (2nd line) at Jharsuguda
- Addition of 2x1500MVA, 765/400kV ICT at Jharsuguda

- Addition of 2x1500MVA, 765/400kV ICT at Angul
- Split bus arrangement at 400kV and 765kV bus in both Angul and Jharsuguda substations.

The schematic diagram of the above transmission system is given at **Exhibit-1.0**

6.0 Meeting with OPTCL

As per discussion in the meeting with OPTCL, the above system has been agreed to. However, OPTCL expressed their concern regarding the share of power to be received by them. Regarding drawal of Orissa's share of power from the generation projects the following was discussed :

1. During 2014-15 time frame

Power to the extent of 950MW (600MW from Sterlite and 350MW from GMR) could be availed by Orissa. One unit(600MW) of Sterlite generation has already been connected to Orissa grid.

The 350MW power from GMR could be availed by Orissa by isolation of one unit of GMR project (3x350+1x350) and connecting it through LILO of one circuit of Talcher-Meramundali D/c line or through GMR – Meramundali 400kV D/c line.

2. During 2016-17 time frame

One unit each of OPGC (2x660MW) and Lanco Babandh(4x660MW) generation projects could be connected to the Orissa grid through 400kV network (LILO of Khuntuni – Meramundali 400kV line). In this way Orissa can avail additional power of 1320MW.

Accordingly, during 2016-17 time frame, about 2270MW (950MW + 1320MW) power could be availed by Orissa.

The study result with the proposed system for connectivity and LTA of Phase-I and Phase-II generation projects, including proposed Khuntuni and Lapanga substation of intra-state system proposed by OPTCL is shown at **Exhibit – 2.0**.

6.0 Issues for deliberation

- Connectivity / LTA may be granted to applicants as per capacity and transmission system explained in para 4.0 & 5.0 above
- The above generation projects would need to sign the LTTA and submit the requisite Bank Guarantee for construction of transmission system. The zero date of transmission system implementation would start after fulfillment of above milestones.

- The other developers should inform regarding any significant progress of the development of projects. Projects which have applied only for connectivity are requested to apply for long term access. The phasing and implementation of transmission system for generation projects would be carried out and the intimation of connectivity / long term access would be issued based on review regarding progress of development of the generation projects.

Annexure-1

Sl. No.	Generation Project	Land		Env. Clearance	Forest Clearance	Fuel Linkage	Water	EPC Contract Award	Financial Closure	Commissioning Schedule
		Required	Acquired							
1	CESC Ltd.(Odisha)		No(250)	No	No	No	Yes	—	—	—
2	VISA Power Ltd	941	No(292)	No	Not Applicable	Imported Coal (FSA Signed)	No	(No) Dec'2012	—	Sep'2015
3	NSL Odisha Power & Infratech Pvt. Ltd.	793.89	472	No	Not Applicable	Yes, 70% linkage, 30% imported	Yes	No	Aug'2012 (expectd)	Dec'2016
4	Tata Power company Ltd	980	900	Yes (subject to FC)	NO	Coal Block Allotted	Yes	No	No	Uncertain
5	GMR Kamalanga Energy Ltd (Phase-II)	NA	Yes	No	Not Applicable	No	No	Yes	No	Dec'2013
6	J R Power Gen Pvt Ltd	995	No	No	No	Yes	Yes	(No) Aug'2013	—	Dec'2016
7	Jindal India Thermal (Phase-II)	425	125	No	No	No	Yes	No	Yes	Jun'2015
8	Sterlite Energy Ltd. (Phase-II)	Existing								
9	Sahara India	900	No(490)	No	Not Applicable	No	Yes	(No) Jan'2013	(No) Jan'2013	Jul'2016
10	Odisha UMPP [Odisha Integrated Power Ltd. (OIPL)]	Not Received								
11	OPGC	—	Yes	Yes (In principle)	Yes	Yes (Captive Mines)	Yes	(No) Oct'2012	(No) Oct'2012	May'2016
12	Darlipalli(NTPC)	1651	Yes	No	No	Yes	Yes	—	—	Feb,2016
13	Gajamara(NTPC)	Yes	Yes	No	No	Yes (Coal Block Available)	Yes	—	—	—
14	NTPC - SAIL	80	Yes	No	Not Applicable	No	No	No	No	2016-17
15	Nalco	138	Yes	No	Not Applicable	Coal Block available/ Dec'13	Yes	(No) Dec'2012	(No) Dec'2016	Jan'2016
16	Bhushan	1679	Yes	No	Not Applicable	Yes (Agreement with CMDC)	Yes	(No) Nov'2012	(No) Jun'2013	Jan'2016
17	BGR Energy	928.82	No	No	Not Applicable	No	No	No	No	Aug'2016

Study for Evacuation from Orissa IPPs



