



पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड

(भारत सरकार का उद्यम)

POWER GRID CORPORATION OF INDIA LIMITED

(A Government of India Enterprise)



पावरग्रिड

केन्द्रीय कार्यालय: "सौदरानि" प्लॉट नं. 2, सेक्टर-29, गुरुग्राम-122 001, (हरियाणा) दूरभाष: 0124-2571700-719, फैक्स: 0124-2571782
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CP/RTI/2013/112

Date: 16th December, 2013

Shri S. N. Banerjee
BA/ 8-B, Janakpuri
New Delhi-110058

Sub: Information under Right to Information Act, 2005.

Dear Mr. Banerjee

This has reference to MoP's letter No. 10/5(41)/2013-PG(RTI) dated 22nd October, 2013 transferring your RTI application dated 7th September, 2013 for providing information under RTI Act, 2005.

The information available with POWERGRID is given below:

- i & ii) The overhead transmission lines in the country are constructed as per the relevant Indian Standards and as per the Central Electricity Authority's Regulations 2010 (Technical Standards for Construction of Electrical Plants and Electric Lines). The aforesaid regulations and Bureau of Indian Standard IS: 5613, inter alia, stipulate guidelines for selecting routing of transmission lines. These documents can be accessed from the respective web sites.
- iii) After approval of a transmission scheme by Ministry of Power under Section 68 of the Electricity Act, 2003, different routes are studied keeping in view the length of the line, number of angle points, power line crossing, statutory clearances from airports, reserved forests, national/ state highways, rivers and railway crossing, villages, towns, scattered habitat, parallelism to the existing power lines, etc.

Preliminary route selection for transmission lines is done by using tools such as the forest atlas and Survey of India maps. During route alignment, all possible efforts are made to avoid the forest area or to keep it to the barest minimum. Whenever it becomes unavoidable due to the geography of terrain or heavy cost involved in avoiding it, different alternative options are considered to minimize the requirement of forest area. Modern tools like GIS/GPS are used for finalization of route.

Upon detailed study, the final route of transmission line is selected based on techno-economic, minimal infringement with the existing permanent structures and least inconvenience to the existing habitat. Further, POWERGRID, as a responsible corporate citizen, also follows the policy of avoidance, minimisation & mitigation with respect to environmental and social impact of the projects during laying of its transmission lines.

पंजीकृत कार्यालय: पी. 8, बुजान इन्डस्ट्रियल एरिया, कल्याण नगर, नई दिल्ली-110066 दूरभाष: 011-26560112, 26560121, 26564812, 26564882, फैक्स: 011-26601081
Registered Office: P-8, Gurgaon Industrial Area, Kalyan Nagar, New Delhi-110066 Tel.: 011-26560112, 26560121, 26564812, 26564882, Fax: 011-26601081, Web: www.powergridindia.com

रक्षित एवं समृद्धि में ऊर्जा बचाएं

Save Energy for Benefit of Self and Nation

- iv) A 'Public Notice' is published in local newspapers for public information before finalization of the route. The notice indicated the names of villages (along with Taluka and Districts) through which the line is passing. During initial screening and walkover survey, POWERGRID's staff meets the public in the route of proposed line. Observation and problems arising from these discussion are given due consideration while finalizing the route.
- v) Head of the project is the competent authority who decides the final route and alignment of the HT lines.
- vi) Head of the Region is the competent authority to whom a complaint can be lodged regarding the proposed route or a request for change of route can be made.
- vii&x) Transmission lines are constructed under the ambit of Electricity Act, 2003. As regards locating tower on individual landowner, POWERGRID follows the Section 68 of Electricity Act, 2003 read with Section 164 vide which powers of Indian Telegraph Act 1885 part 3 Section 10 to 19 conferred to POWERGRID vide Gazette notification dated 4th December, 2003.

As per the provision of Indian Telegraph Act, 1885 Section 10 b), POWERGRID is not authorized to acquire any land hence land under tower is not acquired. However, compensation for all damages are paid to the individual land owner as per the provision of Section-10 d) of Indian Telegraph Act, 1885. The relevant provisions of telegraph act are as follows:

The Indian Telegraph Act, 1885, Part-III, Section 10:

Quote:

Section 10 – The telegraph authority may, from time to time, place and maintain a telegraph line under, over, along, or across, and posts in or upon any immovable property, Provided that –

- a) the telegraph authority shall not exercise the powers conferred by this section except for the purposes of a telegraph established or maintained by the [Central Government], or to be so established or maintained;
- b) the [Central Government] shall not acquire any right other than that of user only in the property under, over, along, across in or upon which the telegraph authority places any telegraph line or post; and
- c) except as hereinafter provided, the telegraph authority shall not exercise those powers in respect of any property vested in or under the control or management of any local authority, without the permission of that authority; and
- d) in the exercise of the powers conferred by this section, the telegraph authority shall do as little damage as possible, and, when it has exercised those powers in respect of any property other than that referred to in clause (c), shall pay full compensation to all persons interested for any damage sustained by them by reason of the exercise of those powers.

Unquote.

- viii) As per the above provisions no prior consent of private land/asset owner is required for placing a tower. However, the licensee who are not covered under the provision of section 164 of the Electricity Act, 2003 shall have to take prior consent of land owner as per the rules notified by Ministry of Power vide Gazette notification No.G.S.R217(E) dt. 18th April 2006 (copy of notification enclosed).
- xi,xiv&xv) As brought out above land for tower and right of way is not acquired as per the provisions of existing law (Indian Telegraph Act, 1885 Part III Section 10(b) prohibits acquisition of any rights other than that of use only) and farming activities are allowed to continue after construction is over. It is also informed that all damages during the construction, major O&M activities are compensated after due assessment and validation by revenue authorities as per the provision of section 10(d) referred above.
- xii) Central Electricity Authority's Regulations 2010 (Measures relating to Safety and Electricity Supply) stipulates the clearances to be adopted for the overhead transmission lines w.r.t ground, buildings etc. The document can be accessed from their office/web site.
- xvi) The relevant section of the Electricity Act, 2003 and Indian Telegraph Act, 1885 are reproduced below:

Section 68 (5 & 6):

Quote:

(5) Where any tree standing or lying near an overhead line or where any structure or other object which has been placed or has fallen near an overhead line subsequent to the placing of such line, interrupts or interferes with, or is likely to interrupt or interfere with, the conveyance or transmission of electricity or the accessibility of any works, an Executive Magistrate or authority specified by the Appropriate Government may, on the application of the licensee, cause the tree, structure or object to be removed or otherwise dealt with as he or it thinks fit.

(6) When disposing of an application under sub-section (5), an Executive Magistrate or authority specified under that sub-section shall, in the case of any tree in existence before the placing of the overhead line, award to the person interested in the tree such compensation as he thinks reasonable, and such person may recover the same from the licensee.

Explanation. - For purposes of this section, the expression "tree" shall be deemed to include any shrub, hedge, jungle growth or other plant.

Unquote.

The provision of Indian telegraph Act, 1885 Part-III, section 10(d) dealing with compensation is again reproduced below:

Section 10(d):

"in the exercise of the powers conferred by this section, the telegraph authority shall do as little damage as possible, and, when it has exercised

those powers in respect of any property other than that referred to in clause© shall pay full compensation to all persons interested for any damage sustained by them by reasons of the exercise of those powers”.

- xvii) As informed above that existing provisions prohibits acquisition of any rights other than that of use only hence no compensation towards permanent severance is payable as per existing law except in J&K where land below tower is to be acquired as per their rules.

The above referred acts are available in market on all law book shop as well as on Ministry of Power and Ministry of Communication and information Technology website respectively. The web address of which are as follows:

Ministry of power
(For Electricity Act 2003)

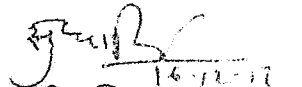
<http://www.powermin.nic.in>

Ministry of Communication and Information Technology <http://www.dot.gov.in>
(For Indian Telegraph Act 1885)

- xxii) The details of POWERGRID's transmission lines (under commercial operation) is attached at Annex-I. However, State-wise data is not maintained by POWERGRID.
- xxiii) The list of planned lines, Corridors and Schemes of POWERGRID is attached at Annex-II. However, State-wise data is not maintained by POWERGRID.

Thanking You,

भवदीय,


(सुधीर मित्तल)

महाप्रबंधक (के.आ.) एवं के.लो.सू.अधिकारी

Attach: As above

Total length (Ckm) of 220 kV, 400 kV & 765 kV commissioned till 30.09.13 & declared under commercial operation till 01.10.13
in different Regions of POWERGRID

Voltage level	NR-I	NR-II	ER-I	ER-II	WR-I	WR-II	SR-I	SR-II	NER	Total Ckm
765 kV	1527.98	358.00	484.61	0.00	1247.72	2062.65	0.00	0.00	0.00	5680.97
765 kV (charged at 400 kV)	392.12	562.50	228.06	0.00	0.00	311.17	0.00	0.00	0.00	1493.86
400 kV	14372.18	7310.23	7594.13	7040.47	10142.63	13248.78	8036.43	8003.96	1949.43	77698.26
220 kV	3021.33	1417.67	497.46	1080.00	204.56	1076.82	0.00	811.47	551.48	8660.79
Total Ckm	19313.61	9648.40	8804.27	8120.47	11594.92	16699.42	8036.43	8815.43	2500.91	93533.88

Planned Lines, Corridors and Scheme

No.	Name of Line/Corridor/Scheme	Location/ States passing through	Length in ckm (approx.)	Voltage Level (in kV)	Regional Grid	Associated Power Plant (if any with the line)	Target/Actual Commissioning details of the power plant (month, year)	Associated to system strengthening	Tentative Commissioning Schedule
1	Rajarhat-Purnea 400 kV D/c line (triple snowbird) with LILO of one circuit at Gokarna (WBSETCL) and other at Farakka (NTPC)	West Bengal, Jharkhand and Bihar	820	400	ER	No	No	ERSS-V	2015-16
2	LILO of Subhashgram - Jeerat 400kV S/c line at Rajarhat	West Bengal	40	400	ER	No	No	ERSS-V	2015-16
3	Sagarighi TPS (West Bengal) - Berhampur (POWERGRID) 400kV D/c line (high capacity HTLS conductor)	West Bengal	60	400	ER	No	No	ERSS-X	2015-16
4	Reconductoring of Farakka-Malda 400kV D/c line with high capacity HTLS conductor	West Bengal	80	400	ER	No	No	ERSS-XIII	2015-16
5	Kota - Jaipur (South) 400 kV D/c (part of RAPP - Jaipur (South) 400 kV D/c line with one ckt LILOed at Kota)	Rajasthan	220	400	NR	RAPP 7&8	September '16	Transmission System Associated with RAPP 7 & 8- Part B	Matching with generation project
6	Singrauli - Allahabad 400 kV S/c	Uttar Pradesh	170	400	NR	NO	NO	NRSS-XXX	2016-17
7	Allahabad - Kanpur 400 kV D/c	Uttar Pradesh	480	400	NR	NO	NO	NRSS-XXX	2016-17
8	Jaipur (RVPN) -Bhiwani 765kV S/c (2nd)	Rajasthan, Haryana	255	765	NR	NO	NO	NRSS-XXV	2016-17
9	Bhiwani (PG)-Hisar 400kV D/c	Haryana	110	400	NR	NO	NO	NRSS-XXV	2016-17
10	LILO of Mega-Bhiwadi 400kV D/c at Hissar	Punjab, Haryana	4	400	NR	NO	NO	NRSS-XXV	2016-17
11	Tehri Generation - Koteswar Pooling Stn. 400 kV S/c (Quad)	Uttarakhand	25	400	NR	Tehri PSP-II	November '16	Transmission System for Tehri PSP	Matching with generation project
12	400 kV Panchkula - Patiala D/c	Haryana, Punjab	240	400	NR	NO	NO	NRSS-XXXII	2016-17
13	400 kV Lucknow (PG) - Kanpur (New)(PG) D/c line	Uttar Pradesh	180	400	NR	NO	NO	NRSS-XXXII	2016-17

Annex II

14	LIL0 Dadri-Malerkotla line at Kaithal S/s (PG)	Punjab, Uttar Pradesh	50	400	NR	NO	NO	NRSS-XXXII	2016-17
15	LIL0 of both circuits of RAPP - Kankroli 400 kV D/c line at Chittorgarh 400/220 kV substation of RRVPNL	Rajasthan	36	400	NR	NO	NO	NRSS-XXXII	2016-17
16	Kishenganga - Allstang 220 kV D/c	J&K	60	220	NR	Kishenganga HEP	2016-17	Transmission system associated with Kishen Ganga HEP	Matching with generation project
17	Allstang - New Wampoh 220 kV D/c	J&K	120	220	NR	Kishenganga HEP	2016-17	Transmission system associated with Kishen Ganga HEP	Matching with generation project
18	Kishenganga- Amargarh 220kV D/c line	J&K	100	220	NR	Kishenganga HEP	2016-17	Transmission system associated with Kishen Ganga HEP	Matching with generation project
19	Jabalpur Pooling station - Oral 765 kV D/c line	M.P, Uttar Pradesh	838	765	NR,WR	NO	2016-17	Inter-regional System Strengthening Scheme for WR and NR-Part-B	2016-17
20	Oral - Aligarh 765kV D/c line	Uttar Pradesh	600	765	NR	NO	2016-17	Inter-regional System Strengthening Scheme for WR and NR-Part-B	2016-17
21	Oral - Oral(UPTCL) 400kV D/c (Quad) line	Uttar Pradesh	76	400	NR	NO	2016-17	Inter-regional System Strengthening Scheme for WR and NR-Part-B	2016-17
22	LIL0 of one circuit of Satna-Gwalior 765 KV 2XS/c line at Oral S/s	Uttar Pradesh	80	765	NR,WR	NO	2016-17	Inter-regional System Strengthening Scheme for WR and NR-Part-B	2016-17
23	LIL0 of Agra-Meerut 765 kV S/c line at Aligarh S/s	Uttar Pradesh	35	765	NR	NO	2016-17	Inter-regional System Strengthening Scheme for WR and NR-Part-B	2016-17
24	LIL0 of Kanpur - Jhatikara 765 kV S/c at Aligarh S/s	Uttar Pradesh	35	765	NR	NO	2016-17	Inter-regional System Strengthening Scheme for WR and NR-Part-B	2016-17
25	Mauda - Betul 400kV D/c (Quad)	Maharashtra & Madhya Pradesh	420	400kV	WR	Mauda-II generation Project	Dec'15	-	Matching with generation project
26	Betul - Khandwa 400kV D/c (Quad)	Madhya Pradesh	360	400kV	WR	Mauda-II generation Project	Dec'15	-	Matching with generation project

27	Khandwa - Indore 400kV D/c	Madhya Pradesh	400	400kV	WR	Mauda-II generation Project	Dec'15	-	Matching with generation project
28	Kakrapar NPP - Vapi 400kV D/c	Gujarat	222	400kV	WR	Kakrapar Nuclear Power Project	Mar'16	-	Matching with generation project
29	Kakrapar NPP - Navsari 400kV D/c	Gujarat	100	400kV	WR	Kakrapar Nuclear Power Project	Mar'16	-	Matching with generation project
30	Solapur TPS - Solapur 400kV D/c (Quad)	Maharashtra	24	400kV	WR	Solapur generation Project	Dec'15	-	Matching with generation project
31	Lara TPS - Champa Pool 400kV D/c (Quad)	Chhattisgarh	220	400kV	WR	Lara-I generation Project	Jun'16	-	Matching with generation project
32	Lara TPS - Raigarh (Kotra) 400kV D/c	Chhattisgarh	40	400kV	WR	Lara-I generation Project	Jun'16	-	Matching with generation project
33	Upgradation of \pm 800kV Champa - Kurukshetra (NR) HVDC Bipole to 6000MW	Chhattisgarh, Madhya Pradesh, U.P. & Haryana	1350	\pm 800kV	WR	-	-	Transmission System Strengthening in WR-NR Transmission Corridor for IPPs in Chhattisgarh	2017
34	Kurukshetra - Jind 400kV D/c (Quad)	Haryana	420	400kV	NR	-	-	Transmission System Strengthening in WR-NR Transmission Corridor for IPPs in Chhattisgarh	2017
35	Aurangabad - Solapur 765kV D/c line	Maharashtra	550	765kV	WR	-	-	Inter-Regional System Strengthening Scheme for WR-NR -(Part-A)	2016-17
36	Chhattisgarh UMPP - Champa Pool 765kV D/c	Chhattisgarh	300	765kV	WR	Chhattisgarh UMPP	-	-	Matching with generation project
37	Chhattisgarh UMPP - Jabalpur Pool 765kV D/c	Chhattisgarh & Madhya Pradesh	700	765kV	WR	Chhattisgarh UMPP	-	-	Matching with generation project

38	Jabalpur Pool - Bhopal 765kV S/c	Madhya Pradesh	150	765kV	WR	Chhattisgarh UMPP	-	-	Matching with generation project
39	Bhopal - Indore 765kV S/c	Madhya Pradesh	150	765kV	WR	Chhattisgarh UMPP	-	-	Matching with generation project
40	Indore - Vadodra 765kV S/c	Madhya Pradesh & Gujarat	300	765kV	WR	Chhattisgarh UMPP	-	-	Matching with generation project
41	Vadodra - Vataman 400kV D/c	Gujarat	100	400kV	WR	Chhattisgarh UMPP	-	-	Matching with generation project
42	Jabalpur Pool - Damoh 400kV D/c	Madhya Pradesh	360	400kV	WR	Chhattisgarh UMPP	-	-	Matching with generation project
43	LILO of Ranchi - Sipat 400kV D/c at Chhattisgarh UMPP	Chhattisgarh,	120	400kV	WR	Chhattisgarh UMPP	-	-	Matching with generation project
44	Kumool (New) - Raichur S/c	Andhra Pradesh, Karnataka	92	765	SR	NO	NO	SRSS-XXII	2016-17
45	North Trissur - Kozhikode Quad D/C line	Kerala	200	400	SR	NO	NO	SRSS-XV	On hold due to RoW issues in Kerala
46	LILO of Gazuwaka - Vijayawada S/c line at Vemagiri Pooling Station	Andhra Pradesh	58	400	SR	NO	NO	System Strengthening in Southern Region for import of power from Eastern Region	Sept, 2014
47	Hyderabad 765/400 kV S/s - Wardha 765 kV D/c line	Andhra Pradesh	800	765	SR	NO	NO	System Strengthening in Southern Region for import of power from Western Region	2016-17