

Agenda for Connectivity/Long term Access to Generation projects in Northern Region

POWERGRID has received Connectivity and Long term Access (LTA) applications for new generation projects in NR. In addition, there are certain modifications of already granted Long term Access. The list of the projects to be discussed is given below:

- 1.0 Connectivity and LTA to Faridabad Solar PV (5 MWp) Plant of M/s NTPC Limited in Haryana.
- 2.0 Connectivity and LTA to Sawra Kuddu HEP & Sainj HEP of M/s HPPTCL in Himachal Pradesh.
- 3.0 Connectivity & LTA to Singrauli Small Hydro (2X4MW) Plant & Singrauli Solar(15MW) Plant of M/s NTPC Limited in Uttar Pradesh.
- 4.0 Connectivity and LTA for Gama HEP
- 5.0 Long Term Access for 500MW to Noida Power Company Limited (NPCL)
- 6.0 Integrated transmission system in Uttarakhand being implemented by PTCUL

1.0 Connectivity and Long term Access to Faridabad Solar PV Plant (5 MWp) of M/s NTPC Limited in Haryana.

POWERGRID had received application for connectivity and LTA for Faridabad Solar PV Plant(5 MWp) located at Faridabad Gas Based Generation project in Haryana to GRIDCO Ltd., Odisha in ER. Copy of the applications is enclosed at **Annexure-1**.

i) Connectivity

As per the connectivity application, the Solar power is pooled at 33kV & further connected through the existing electrical system of 220 kV Faridabad generating station. Accordingly, no transmission system is being proposed for connectivity for 5MW.

Proposal:

Connectivity for 5 MWp from Faridabad Solar PV Plant of M/s NTPC Ltd. is proposed:

- Under ISTS 2 nos. of 220 kV D/c lines, one D/c line towards 220 kV Samaypur Substation of BBMB and other line towards 220 kV Palla S/S of HVPNL is available from Faridabad 220kV switchyard. Further LILO of one circuit of 220 kV A5-A4 D/c line at Faridabad generating station by HVPNL has been approved in the 31st standing committee meeting.
- Margins are available for evacuation of the 5MW of solar power through existing system.
- Presently metering & communication is under the purview of Haryana, as Lead generator is under the control area of Haryana. No new equipment is to be installed by CTU. Additional meters to be installed by Haryana. Therefore connection agreement is to be signed in coordination with HVPNL
- Connectivity is subject to all applicable conditions as listed in **Annexure-A**.

Members may deliberate and connectivity may be granted to Faridabad Solar PV Plant (5 MWp) of M/s NTPC Limited in Haryana.

ii) Long Term Access

M/s NTPC Ltd. has also applied for Long term Access (on behalf of GRIDCO) for transfer of 5MW power from Faridabad Solar PV Plant (5 MWp) to GRIDCO Limited, Odisha in Eastern Region. LTA has been sought w.e.f. 1/12/2013 (NTPC to confirm the date) upto 1/12/2038 (Copy of the LTA application is attached at **Annexure 2**).

No additional transmission system requirement has been envisaged for Long term access as the LTA has been sought for 5 MW in the direction from Northern Region to Eastern Region which would be opposite to the normal power flow direction and would be transferred via existing inter-state transmission system through displacement.

Existing Faridabad generation is a NTPC generation and entire power is allocated to Haryana and power from Faridabad generation project is being scheduled by Haryana and accordingly Faridabad generation which is a lead generator is an Intra state entity. Accordingly NTPC shall have to submit the NOC from state utility as per the approved Detailed Procedure on grant of Connectivity, Long-term Access & Medium-term Open Access.

LTA is proposed to be granted to NTPC Faridabad Solar project as margins are available subject to that NTPC to submit the NOC from State Utility as per the approved Detailed Procedure on grant of Connectivity, Long-term Access & Medium-term Open Access. Its control area & scheduling would be as per IEGC & other relevant regulations in this regard.

Proposal:

Long term Access for 5 MWp solar power from Faridabad Solar PV Plant of M/s NTPC Ltd. is proposed to be granted subject to:

- Grant of Connectivity.
- NTPC to submit the NOC from State utility as per the approved Detailed Procedure on grant of Connectivity, Long-term Access & Medium-term Open Access..
- Signing of requisite Long Term Access Agreement and TSA for payment of the transmission system charges, as applicable, from Dec.' 2013 (NTPC to confirm the date) for 25 years by GRIDCO Limited in case of firm PPA with GRIDCO is available or by NTPC Ltd in case PPA is not available.
- All applicable conditions as listed in **Annexure-A**.

2.0 Signing of Long Term Access Agreement (LTAA) by HPPCL for Sawra Kuddu and Sainj HEP of M/s HPPTCL in Himachal Pradesh.

HPPCL had been granted Connectivity and Long Term Access for their Sawra Kuddu HEP (111MW) and Sainj (100MW) in Himachal Pradesh. During the Connectivity/Long Term Access meeting and 31st Standing Committee Meeting of Power System Planning of Northern Region held on 02.01.2013, it was discussed and agreed that HPPCL shall sign all required agreements within 6 month of issue of minutes and in case required agreements are not signed then the application would be closed as per CERC regulations. However, HPPCL is still to sign the required agreements. HPPCL vide their letter Ref. No. HPPCL/EC/SK/OPENACCESS/2010-/030-33 dated 25/10/2013, has requested for further extension of signing of LTA agreement. HPPTCL may confirm signing of the same.

Members may discuss.

3.0 Connectivity & LTA to Singrauli Small Hydro (8MW) Plant & Singrauli Solar (15MW) Plant of M/s NTPC Ltd. in Uttar Pradesh.

POWERGRID has received an application for connectivity and LTA for 8MW Singrauli hydro Generation project located at existing Singrauli generation project of NTPC. The application was processed as per CERC regulations. Connectivity & LTA was discussed and agreed to be granted during the Connectivity and Long term Access meeting held on 31/08/2013.

Subsequently, CTU received connectivity and LTA application for 15MW Solar Plant at Singrauli generation project. Copy of the applications is enclosed at **Annexure-3**. While processing the applications, it has been noted that Hydro and Solar are connected at different locations (as seen from the drawing attached with the applications) within existing Singrauli project. Further, as per Statement of Reasons of CERC (Grant of Connectivity, Long term Access and Medium-term Open Access in inter-State Transmission and related matters) (Third Amendment) Regulations, 2013, it is stated under para-21 *"It may also be possible that the existing generating station may have more than one renewable generating plant in the generating station premise or near its plant facilities. In such situation the existing generating station should act as "Principal Generator" and all such renewable generating stations shall be inter connected one single point for the purpose of scheduling and metering. "*

Keeping above in view, the issue has been put up to CERC to decide whether the connectivity can be granted for the above renewables, when they are being pooled at two different points within the existing generation. Also, in this case one is a hydro generation and other is a solar generation. As per CERC (Sharing of Inter State Transmission Charges and Losses) Regulations, 2010 *"No transmission charges for the use of ISTS network shall be charged to solar based generation. This shall be applicable for the useful life of the projects commissioned in next three years."* If metering is done at a single point, segregation of the energy generated cannot be done by solar and hydro generations which would be required for calculating transmission charges and losses.

Direction has been sought from CERC. Connectivity and LTA intimation of Singrauli Hydro shall be issued based on directions from CERC, Similarly present Sinrgauli solar connectivity and LTA application shall also be processed accordingly.

Members may note.

4.0 LTA to M/s Gama Infraprop (P) Ltd., for 50MW power transfer from their Gas Based CCPP at Kashipur, in Uttarakhand.

M/s Gama Infraprop (P) Limited, had applied for Long Term Access for transfer of 50MW of power. For connectivity of the project, Gama Infraprop (P) Ltd. had made an application to PTCUL and requested to PTCUL to grant the connectivity with LILO of Kashipur – Pant Nagar 220 kV S/c line. PTCUL had informed that connectivity to M/s Gama Infraprop (P) Ltd. shall be provided by them with LILO of Kashipur – Pant Nagar 220 kV S/c line.

It was discussed and agreed that Long Term Access for 50 MW could be granted for transfer beyond Kashipur, subject to following

- The applicant will submit the NOC from STU, i.e. PTCUL, in standard format to POWERGRID. Intimation to LTA shall be issued only after receipt of the same.
- Long term Access was agreed to be granted subject to the availability of Kashipur–Roorkee–Saharanpur 400 kV D/c (Quad) line
- All Conditions as applicable listed in **Annexure –A** would be applicable.

POWERGRID has not received the NOC till date for the LTA. M/s Gama Infraprop (P) Ltd. M/s Gama Infraprop (P) Limited may update the status.

Members may decide

5.0 LTA to M/s Noida Power Company Limited (NPCL), for drawl of 500 MW power from ISTS at Greater Noida, in Uttar Pradesh.

NPCL had applied for connectivity for drawl of 500MW power for distribution in Greater Noida area in Uttar Pradesh. The connectivity to Noida Power Company Limited was discussed & agreed during the 31st Standing Committee Meeting of Northern Region, wherein the following was agreed:

- Ballabgarh – Greater Noida (New) 400 kV D/c line
- Establishment of 2x500 MVA, 400/220 kV GIS substation with a short circuit rating of 50kA
- Considering the RoW constraints near Ballabgarh it was agreed to provide 5 km of line on Multi-circuit towers from Ballabgarh end.

It was also agreed that this new 400/220 kV substation would be catering to both Uttar Pradesh and M/s NPCL and would be taken up as ISTS strengthening scheme. Accordingly, connectivity had been granted to M/s Noida Power Company Limited for drawl of 500MW. During the Standing Committee Meeting it was informed that that Noida Power Company Ltd. (NPCL) has signed Power Purchase Agreement with Essar Power (Jharkhand) Ltd. for supplying 240 MW from their generation project in Latehar district of Jharkhand and NPCL would bear the transmission charges. Subsequently it was informed that NPCL has given a PPA termination notice to M/s Essar Power Ltd. CEA vide their letter dated 18/09/2013 suspended the bidding process for the above system.

Now, M/s NPCL has applied to CTU for LTA for 500MW w.e.f. 1/10/2017 for 25 years with Western Region and Eastern Region as its target regions for procurement of Long Term power with a target quantum of 400 MW and 100 MW respectively. A copy of the application is enclosed at **Annexure-4**.

Long term Access for drawl of 500MW power for distribution in Greater Noida area in Uttar Pradesh is proposed to be granted subject to:

- Availability of connectivity.
- Signing of requisite Long Term Access Agreement and TSA for payment of the transmission system charges, as applicable, from Oct.'17 for 25 years by the applicant.
- All applicable conditions as listed in **Annexure-A**.

Members may discuss.

6.0 Integrated transmission system in Uttarakhand being implemented by PTCUL

The matter regarding implementation of Integrated transmission system in Uttarakhand to be implemented by PTCUL was discussed during the 32nd Standing Committee Meeting of Power System Planning for Northern Region.

PTCUL vide letter dated 04/12/2013 have mentioned that Lata Tapovan – Joshimath – Pipalkoti lines has not been considered as deemed ISTS line in the Minutes of Meeting of 32nd SCM whereas the same is also a part of Common Transmission Scheme of Alaknanda Valley. It has been stated that PTCUL is constructing Lata Tapovan – Joshimath – Pipalkoti 220 kV D/c lines for evacuation of power from under construction 171 MW Lata Tapovan (NTPC) HEP and further the system will be used for proposed Tamaklata HEP 250 MW (UJVNL) and other HEPs in Alaknanda Valley. They have requested for vetting of lines as deemed ISTS from the date of its commissioning of the projects i.e. a) Pipalkoti – Joshimath Quad Zebra line & b) Joshimath – Lata Tapovan 220 kV D/c Twin Zebra line.

In regard to above it is to mention that CTU has not received any application for Lata Tapovan HEP & Tamaklata HEP and as such time frame for requirement of these lines is not known. During the 32nd Standing Committee Meeting it was explained by the CTU that the transmission system needs to be prioritized & phased in such a manner that power does not get bottled up from any generator. Further PTCUL may indicated whether the Lata Tapovan-Joshimath was part of the system approved by CERC under Deemed ISTS.

It is proposed that PTCUL may update the status of the generation projects and prioritize the lines so that lines are available matching with the commissioning of generation projects.

Members may deliberate.

Annexure- A

Connectivity:

- The applicant 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, Central Electricity Authority (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.
- The connectivity shall be as per the Detailed Procedures of Central Transmission Utility (POWERGRID) for Grant of Connectivity, Long-term Access and Medium-term Open Access to Inter-State Transmission and all provisions regarding connectivity would have to be met.
- The applicant shall furnish additional details for signing Connection Agreement for the same and would sign the Connection Agreement as per the provisions of Connectivity.
- As agreed in 30th Standing committee meeting 50 MVAR bus reactor would be provided by all the generators having capacity of more than 100 MW and 80 MVAR bus reactor would be provided by all the generators having capacity of more than 300 MW.

Long Term Access:

- Long Term Access is being processed subject to the condition that the applicant/beneficiaries, bears all applicable transmission charges as per CERC norms for transfer of power.
- In all cases wherein PPA agreement has not been signed, all beneficiaries indicated shall be assumed as target beneficiaries.
- Signing the requisite LTAA / TSA for Transmission system charges.
- The applicant 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, Approved Detailed procedure of CTU, CEA (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.
- The Long term Access shall be as per the Detailed Procedures of Central

Transmission Utility (POWERGRID) for Grant of Connectivity, Long-term Access and Medium-term Open Access to Inter-State Transmission and all provisions regarding LTA would have to be met

- As agreed in 30th Standing committee meeting 50 MVAR bus reactor would be provided by all the generators having capacity of more than 100 MW and 80 MVAR bus reactor would be provided by all the generators having capacity of more than 300 MW.



एन टी पी सी लिमिटेड
(भारत सरकार का उद्यम)
NTPC Limited
(A Govt. of India Enterprise)
(Formerly National Thermal Power Corporation Ltd.)

Ref. No: CC:PEE:NTPC/FARIDABAD/CONN/1

केन्द्रीय कार्यालय/Corporate Centre

Date: 05-06-2013

Chief Operating Officer(CTU)
Power Grid Corporation of India Limited,
"Saudamini", Plot No. 2, Sector-29,
Near IFFCO Chowk,
Gurgaon-122001
Fax: 0124-2571809

Sub: Application for Grant of Connectivity to ISTS for Faridabad Solar PV Plant

Dear Sir,

With reference to the above subject, please find enclosed herewith our application for Grant of Connectivity for following NTPC Project :

- 1) Faridabad Solar PV Plant (5 Mwp)

In line with the CERC connectivity regulation published for renewable plant of capacity less than 50 MW, and detailed procedure of Central Transmission Utility Under Regulation 27(1) of the CERC (Grant of Connectivity, Long term Access and Medium – term Open Access in Inter State Transmission System and related matters) Regulations, 2009, application for the grant of Connectivity to ISTS consisting of following documents(as per regulation) for above project dully filled in is submitted ;


1. Format – CON-1 (Affidavit)
2. Format – CON-2 (Application)
3. Details of EFT transaction i.e payment Unique Ref no. 201344032 ,paid on 31/05/2013 Rs. 2,00,000/-

The basic scheme indicating Faridabad Solar PV plant connecting to the existing connection point with ISTS through electrical system of generating station is also enclosed(Flag A).

As you are kindly aware that above Solar PV project have short commissioning schedule(Dec 2013),the connectivity of above project may please be granted at the earliest. The LTA application for Faridabad Solar PV plant is being submitted shortly.

Thanking You,

Yours faithfully,


(Dinkar Devate)
GM (PE-Electrical)

Format-CON-2

S.No.	Description	Details
1.	Name the Applicant	NTPC Limited
2.	Address for correspondence	AGM(PE-Elect),NTPC LTD. Engineering Office Complex, A-8A, Sector-24,NOIDA -201301(U.P)
3.	Contact Details	
	Prime Contact Person	Shri S.S.Mishra
	Designation	AGM(PE-Elect)
	Phone No. (Landline)	0120-2410729
	Phone No. (Mobile)	09650991145
	Fax	0120-2410102
	E Mail	ssmishra@ntpceoc.co.in
	Alternate Contact Person	Ms. S.Mohanty
	Designation	DGM(PE-Elect)
	Phone No. (Landline)	0120-3318421
	Phone No. (Mobile)	9650991556
	Fax	0120-2410102
	E Mail	sagarika@ntpceoc.co.in
4.	Nature of Application	
	Generator (other than captive)	Generator
	Captive Generator	
	Bulk Consumer	
5.	Details of Connectivity	
5 a.	Capacity (MW) for which connectivity is required	5 MW p
5 b.	Date from which connectivity is required	Dec'2013
6.	Location of the Generating Station/Bulk consumer	(i.) Place : Faridabad
	Nearest Village/Town	Town :
	District	
	State	Haryana
	Latitude	North :28 Deg 17 Min
	Longitude	East :77 Deg 19 Min13 Sec
7.	Installed Capacity of the Generating Station	
	Existing -	430 MW(Combined cycle)
8.	Commissioning Schedule of the Generating Station	Dec '2013

9.	Details of the Generation Station	
	Name of the Power Plant	Faridabad Solar PV plant
	Promoter	NTPC Ltd.
	Fuel	Renewable
	Source of Fuel	Solar
	Generation Voltage	300 V AC(converted through inverter from DC)
	Step-up voltage	Solar power is pooled at 33 kV level and further connected through the existing electrical system of generating station (220 kV switchyard-Single Line Diagram attached)
	Is it an identified project by CEA	No
	Base Load/Peak load	Infirm Power
10.	Details of Nearest 400/220/132kV Substations	220 kV Faridabad Switchyard
	Owner	NTPC
11.	Details of e-transaction (Application Fee)	
	Amount (in Rs.)	2,00,000/-(two lakh only)(Through RTGS)
	Transaction Ref. No	2013044032(Payment unique ref no.)
	Date	31/05/2013
	Bank Name	
	Branch Name	



एन टी पी सी लिमिटेड
(भारत सरकार का उद्यम)

NTPC Limited
(A Govt. of India Enterprise)

केन्द्रीय कार्यालय/Corporate Centre

Ref: 01:CD: 706

Dated: 25th June 2013

To
COO (CTU)
Power Grid Corporation of India Ltd.
"Saudamini" Plot No. 2
Sector-29, Gurgaon-122021
Haryana
Fax No. : 0124-2571809

Sub: Long Term Access (LTA) application for Faridabad Solar PV(5 MW)

Sir

Please find enclosed the LTA application for Faridabad Solar (5 MW) including Format LTA-1 and LTA-2 along with the proof of application fees of Rs. 2,00,000 (Rupees Two lacs only) already paid by RTGS vide Reference No 00001262588CT32321455 on 20.06.2013 as per CERC Regulations on "Grant of Connectivity, Long Term Access and Medium-term Open Access in inter-State Transmission and related matters Regulations" 2009 and subsequent procedures dated 31.12.2009. Application for Grant of Connectivity has already been made vide our letter dated 05.06.2013 (copy of letter enclosed). NTPC is making this application on behalf of the beneficiary i.e GRIDCO (GRIDCO letter authorizing NTPC to apply in its behalf is enclosed). GRIDCO shall be signing any necessary agreements including BPTA etc. with Powergrid / other transmission licensee and shall be responsible for payment of applicable charges. It is requested that the enclosed application may be processed at your end. We would further like to indicate that since NTPC is making this application on behalf of GRIDCO, LTA may be granted in the name of GRIDCO.

Thanking you

Yours faithfully

(A. K. Bishoi)
AGM (Commercial)

- Encl: 1. LTA-1- Affidavit
2. LTA-2
3. Proof of payment vide Reference No 00001262588CT32321455 on 20.06.2013
4. Letter dated 05.06.2013 for Grant of Connectivity
5. GRIDCO letter dated 16.05.2012 authorising NTPC to apply on its behalf.

FORMAT-LTA-2

Application for Grant of Long -term Access (LTA)

1 Name the Applicant NTPC Limited (on behalf of GRIDCO)
2 Address for Correspondence NTPC Bhavan, Core-7, Scope Complex,
7, Institutional Area, Lodhi Road,
New Delhi-110003

3 Contact Details

Prime Contact Person **A. K. Bishoi**
Designation **Additional General Manager**
Phone No.(Landline) **011-24367970**
Phone No.(Mobile) **9650992568**
Fax **011-24360328**
E-Mail **akbishoi@ntpceoc.co.in**

Alternate Contact Person **S. K. Sharma**
Designation **Additional General Manager**
Phone No.(Landline) **011-24365523**
Phone No.(Mobile) **9650990535**
Fax **011-24360328**
E-Mail **sksharma@ntpc.co.in**

4 Nature of the Applicant

Normal Generator (other than captive) **Yes**
Captive Generator
Bulk Consumer
Electricity Trader
Distribution Licensee

5 Details for Long Term Access (LTA)

5a Quantum (MW) for which LTA required **5 MW**
5b Date from which LTA required **01.12.2013**
(not earlier than 3 years from the last day of the month in which application has been received)
5c Date upto which LTA required **01.12.2038**
(12 years to 25 years from the date from which LTA is required)



5d Injection of Power (more than one only in case of single Drawal)

Entity-1
State/Region
Quantum-1
Connectivity with the Grid

**NTPC, Faridabad Solar
Haryana / NR**

5 MW

NTPC Faridabad Switchyard

(Power shall be pooled at Faridabad Solar plant and getting connected at existing Faridabad station Switchyard)

5e Drawal of Power (more than one only in case of single Injection)

Entity- 1
State/Region
Quantum- 1
Connectivity with the Grid

GRIDCO

Orissa /ER

5 MW

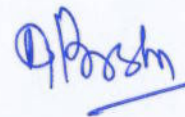
Various CTU Substations in Orissa

6 Details of DD/Cheque e-transaction (Application Fee)

Amount (in Rs.) **Two lacs only**
DD/Cheque transaction No. 00001262588CT32321455
Date 20.06.2013
Bank Name **State Bank of Hyderabad**
Branch Name Scope Complex, New Delhi

7 Details of Bank Guarantee

Amount (in Rs) **N/A**
Bank Name
Period of Validity





एन टी पी सी लिमिटेड
(भारत सरकार का उद्यम)
NTPC Limited
(A Govt. of India Enterprise)
(Formerly National Thermal Power Corporation Ltd.)

केन्द्रीय कार्यालय/Corporate Centre

Ref. No: CC: PEE: NTPC/Singrauli-Solar/CONN/1

Date: 19-09-2013

Chief Operating Officer(CTU)
Power Grid Corporation of India Limited,
"Saudamini", Plot No. 2, Sector-29,
Near IFFCO Chowk,
Gurgaon-122001
Fax: 0124-2571809

Sub: Application for Grant of Connectivity to ISTS for Singrauli Solar PV Plant

Dear Sir,

With reference to the above subject, please find enclosed herewith our application for Grant of Connectivity for following NTPC Project:

- 1) Singrauli Solar PV Plant (15 Mwp)

In line with the CERC connectivity regulation published for renewable plant of capacity less than 50 MW, and detailed procedure of Central Transmission Utility Under Regulation 27(1) of the CERC (Grant of Connectivity, Long term Access and Medium – term Open Access in Inter State Transmission System and related matters) Regulations, 2009, application for the grant of Connectivity to ISTS consisting of following documents (as per regulation) for above project dully filled in is submitted ;


1. Format – CON-1 (Affidavit)
2. Format – CON-2 (Application)
3. Details of EFT transaction i.e payment Unique Ref no.CMS16989 ,paid on 18/09/2013 Rs. 2,00,000/-

The basic scheme indicating Singrauli Solar PV plant connecting to the existing connection point with ISTS through electrical system of generating station is also enclosed (Flag A).

As you are kindly aware that above Solar PV project have short commissioning schedule(April 2014),you may like to consider grant of connectivity through circulation. The LTA application for Singrauli Solar PV plant is being submitted shortly.

Thanking You,

Yours faithfully,

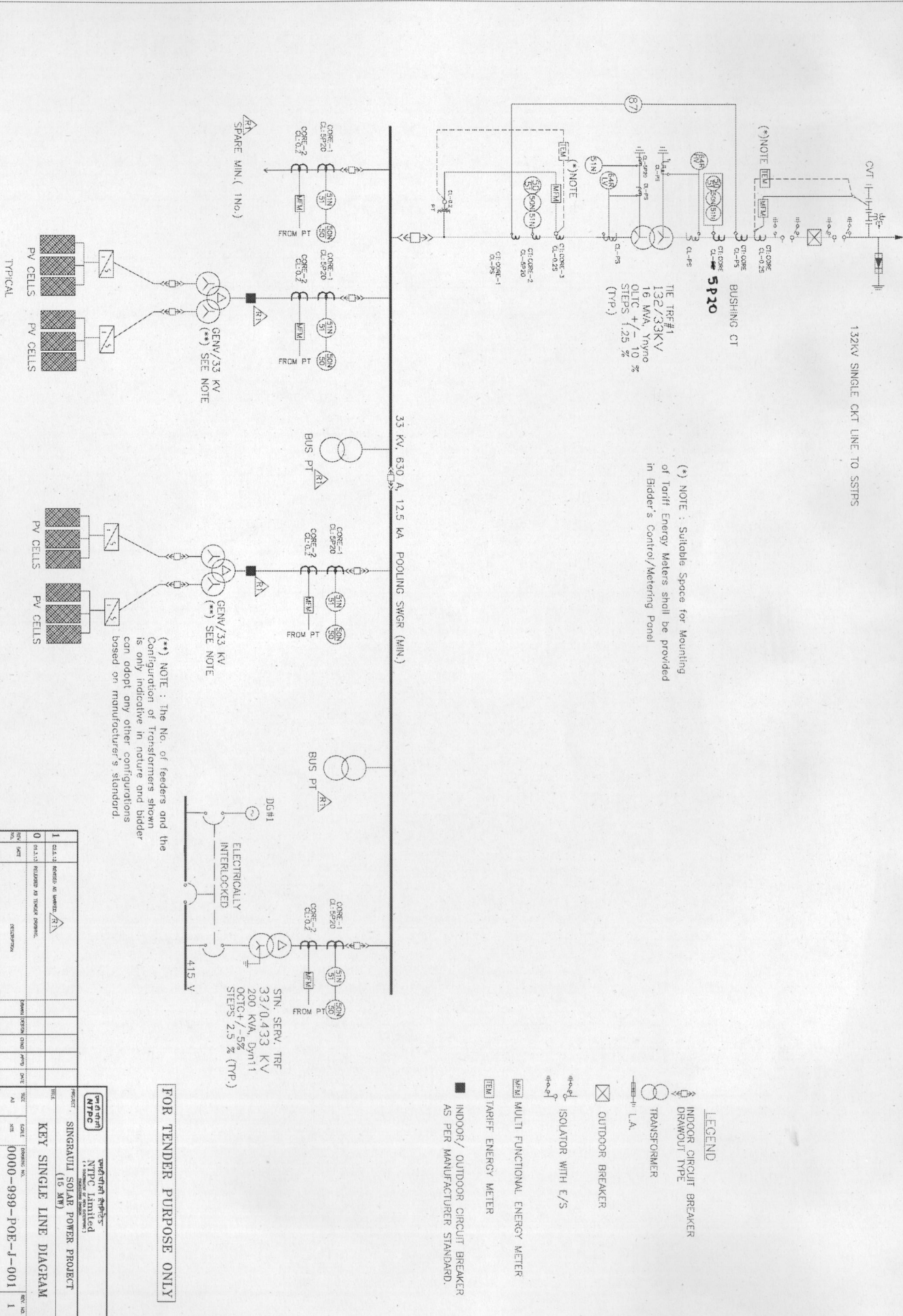

(Dinkar Devate)
GM (PE-Electrical)

Format-CON-2

S.No.	Description	Details
1.	Name the Applicant	NTPC Limited
2.	Address for correspondence	AGM(PE-Elect),NTPC LTD, Engineering Office Complex, A-8A, Sector-24,NOIDA - 201301(U.P)
3.	Contact Details	
	Prime Contact Person	Shri S.S.Mishra
	Designation	AGM(PE-Elect)
	Phone No. (Landline)	0120-2410729
	Phone No. (Mobile)	09650991145
	Fax	0120-2410102
	E Mail	ssmishra@ntpceoc.co.in
	Alternate Contact Person	Ms. S.Mohanty
	Designation	DGM(PE-Elect)
	Phone No. (Landline)	0120-3318421
	Phone No. (Mobile)	9650991556
	Fax	0120-2410102
	E Mail	sagarika@ntpceoc.co.in
4.	Nature of Application	
	Generator (other than captive)	Generator
	Captive Generator	
	Bulk Consumer	
5.	Details of Connectivity	
5 a.	Capacity (MW) for which connectivity is required	15 MW p
5 b.	Date from which connectivity is required	April '2014
6.	Location of the Generating Station/Bulk consumer	(i.) Place : Singrauli
	Nearest Village/Town	Town :
	District	Sonebhadra
	State	Uttapradesh
	Latitude	North :24 Deg 15 Min
	Longitude	East :82 Deg 75 Min
7.	Installed Capacity of the Generating Station	
	Existing -	2000 MW(5x200 MW +2x 500 MW))
8.	Commissioning Schedule of the Generating Station	April '2014

9.	Details of the Generation Station	
	Name of the Power plant	Singrauli Solar PV plant
	Promoter	NTPC Ltd.
	Fuel	Renewable
	Source of Fuel	Solar
	Generation Voltage	300 V -400 VAC(converted through inverter from DC)
	Step-up voltage	Solar power is pooled at 33 kV level and further connected through the existing electrical system of generating station (132 /400 kV kV switchyard-Single Line Diagram attached)
	Is it an identified project by CEA	No
	Base Load/Peak load	Infirm Power
10.	Details of Nearest 400/220/132kV Substations	400 /132kV Singrauli Switchyard
	Owner	NTPC
11.	Details of e-transaction (Application Fee)	
	Amount (in Rs.)	2,00,000/-(two lakh only)(Through RTGS)
	Transaction Ref. No	UTR NO. CMS 16989
	Date	18/09/2013
	Bank Name	
	Branch Name	

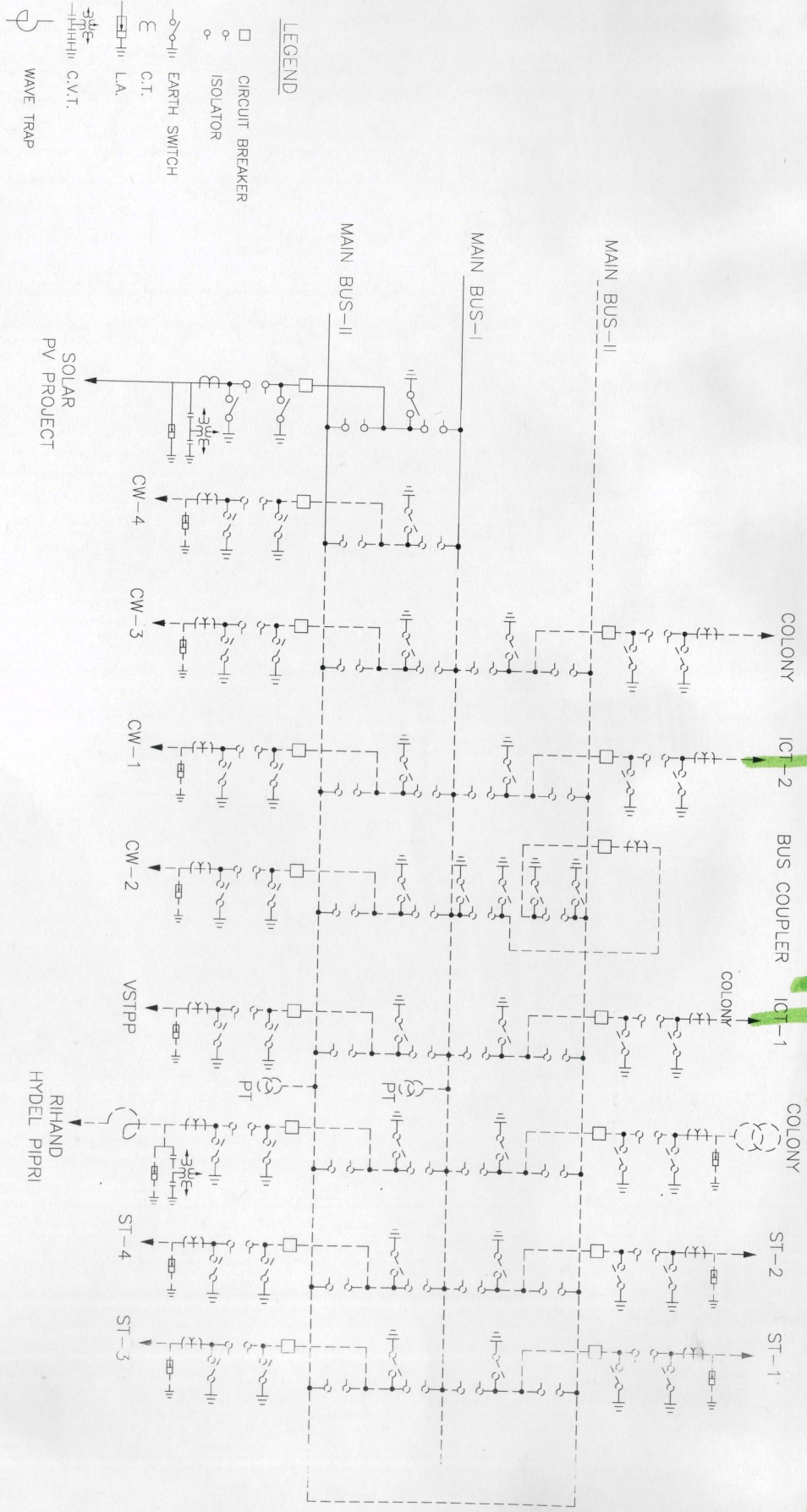
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REV.	NO.	DATE	DESCRIPTION
0	1		ISSUED AS WORK / AT
0	2		REVISED BY THESE ENGINEERS

		सिंघराव सौर शक्ति NTPC Limited SINGRAULI SOLAR POWER PROJECT (15 MW)	
KEY SINGLE LINE DIAGRAM		SCALE: AS SHOWN DRAWING NO: 0000-999-POE-1-001	SHEET NO: 1 OF: 1

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--- EXISTING
 --- UNDER SOLAR PV PROJECT

LEGEND

- CIRCUIT BREAKER
- ISOLATOR
- EARTH SWITCH
- C.T.
- L.A.
- C.V.T.
- WAVE TRAP



NTPC LIMITED
 (A GOVERNMENT OF INDIA ENTERPRISE)
 ENGINEERING DIVISION

PROJECT
SINGRAULI SOLAR PV PROJECT(15MW)
 TITLE
132KV SWITCHYARD - SSTPS END
SINGLE LINE DIAGRAM

REV. NO.	DESCRIPTION	DRAWN	DESIGN	CHKD	CLEARED BY			DATE
A					MECH	ELECT	CIVIL	APPD

SIZE	SCALE	DRAWING NO.	REV. NO.
A3	NTS	1150-999-POJ-001	A

Drq file : 132KVSWYDSDL SOLAR.DWG

132KV SSTPS BUS



एन टी पी सी लिमिटेड

(भारत सरकार का उद्यम)

NTPC Limited

(A Govt. of India Enterprise)

केन्द्रीय कार्यालय/Corporate Centre

Ref: 01:CD: 178
Dated: 12th Nov 2013

To

COO (CTU)
Power Grid Corporation of India Ltd.
"Saudamini" Plot No. 2
Sector-29, Gurgaon-122021
Haryana
Fax No. : 0124-2571809

Sub: Long Term Access (LTA) application for Singrauli Solar (15 MW)

Sir

Please find enclosed the LTA application for Singrauli Solar (15 MW) including Format LTA-1 and LTA-2 along with the proof of application fees of Rs. 2,00,000 (Rupees Two lacs only) already paid by RTGS vide CMS No 178395879 on 08.11.2013 as per CERC Regulations on "Grant of Connectivity, Long Term Access and Medium-Term Open Access in Inter-State Transmission and related matters Regulations" 2009 and subsequent procedures dated 31.12.2009. Application for Grant of Connectivity has already been made vide our letter dated 19.09.2013 (copy of letter enclosed). NTPC is making this application on behalf of the beneficiary i.e HPSEB. HPSEB shall be signing all necessary agreements including BPTA etc. with Powergrid / other transmission licensee and shall be responsible for payment of applicable charges. It is requested that the enclosed application may be processed at your end. We would further like to indicate that since NTPC is making this application on behalf of HPSEB, LTA may be granted in the name of HPSEB.

Thanking you

Yours faithfully

(A. K. Bishoi)

AGM (Commercial)

- Encl: 1. LTA-1- Affidavit
2. LTA-2
3. Proof of payment vide CMS No178395879 on 08.11.2013
4. Letter dated 19.09.2013 for Grant of Connectivity
5. Authorization Letter from HPSEB



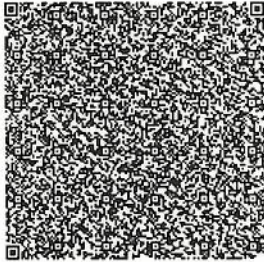
सत्यमेव जयते

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

e-Stamp

Certificate No. : IN-DL86289070080973L
 Certificate Issued Date : 11-Nov-2013 03:43 PM
 Account Reference : IMPACC (IV)/ dl889403/ DELHI/ DL-DLH
 Unique Doc. Reference : SUBIN-DL88940370572571655261L
 Purchased by : NTPC LTD
 Description of Document : Article 4 Affidavit
 Property Description : NA
 Consideration Price (Rs.) : 0
 (Zero)
 First Party : NTPC LTD
 Second Party : Not Applicable
 Stamp Duty Paid By : NTPC LTD
 Stamp Duty Amount(Rs.) : 10
 (Ten only)



Please write or type below this line

FORMAT-LTA-1

AFFIDAVIT

In the matter of filing application to Power Grid Corporation of India Limited, for grant of Long-term Access under CERC Regulations 2009.

I **A. K. Bishoi** S/o Shri Somnath Bishoi working as **Additional General Manager (Commercial)** in NTPC Ltd, having its registered office at NTPC Bhawan, SCOPE Complex, 7, Institutional Area, Lodhi Road, New Delhi-110003, do solemnly affirm and say as follows:



A. Bishoi


Statutory Alert:

1. The authenticity of this Stamp Certificate should be verified at "www.shoifstamps.com". Any discrepancy in the details on this Certificate and as available on the website renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

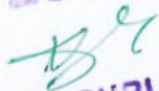
1. I am the **Additional General Manager** of NTPC Ltd. the representative in the above matter and am duly authorized to file the above application and to make this affidavit.

I submit that M/s NTPC Ltd. is a registered company Public Ltd. Registered under Companies Act. Under the Article of Association of the Company and in accordance with the provisions of Electricity Act, 2003/relevant Regulation(s) of CERC, the company can file the enclosed application.

I submit that all the details given in the enclosed application for grant of Long Term Access for Singrauli Solar PV (15 MW) alongwith necessary documents are true and correct and nothing material has been concealed thereof.


(A.K. Bishoi)



ATTESTED

NOTARY PUBLIC
DELHI (India)

12 NOV 2013

FORMAT-LTA-2

Application for Grant of Long -term Access (LTA)

1 Name the Applicant	NTPC Limited (on behalf of HPSEB)
2 Address for Correspondence	NTPC Bhawan, Core-7, Scope Complex, 7, Institutional Area, Lodhi Road, New Delhi-110003
3 Contact Details	
Prime Contact Person	A. K. Bishoi
Designation	Additional General Manager
Phone No.(Landline)	011-24367970
Phone No.(Mobile)	9650992568
Fax	011-24360328
E-Mail	akbishoi@ntpceoc.co.in
Alternate Contact Person	S. K. Sharma
Designation	Additional General Manager
Phone No.(Landline)	011-24365523
Phone No.(Mobile)	9650990535
Fax	011-24360328
E-Mail	sksharma@ntpc.co.in
4 Nature of the Applicant	
Normal Generator (other than captive)	Yes
Captive Generator	
Bulk Consumer	
Electricity Trader	
Distribution Licensee	
5 Details for Long Term Access (LTA)	
5a Quantum (MW) for which LTA required	15 MW
5b Date from which LTA required <i>(not earlier than 3 years from the last day of the month in which application has been received)</i>	16.03.2014
5c Date upto which LTA required <i>(12 years to 25 years from the date from which LTA is required)</i>	16.03.2039



5d Injection of Power (more than one only in case of single Drawal)

Entity-1
State/Region
Quantum-1
Connectivity with the Grid

**NTPC, Singrauli Solar
U.P. / NR
15 MW
Already applied (NTPC Singrauli Switchyard)**

5e Drawal of Power (more than one only in case of single Injection)

Entity- 1
State/Region
Quantum- 1
Connectivity with the Grid

**HPSEB
Himachal Pradesh /NR
15 MW
Various CTU Substations in HPSEB area**

6 Details of DD/Cheque e-transaction (Application Fee)

Amount (in Rs.)
DD/Cheque transaction No.
Date
Bank Name
Branch Name

**Two lacs only
178395879
08.11.2013
State Bank of Hyderabad
Nehru Place, New Delhi**

7 Details of Bank Guarantee

Amount (in Rs)
Bank Name
Period of Validity

N/A

AB

HIMACHAL PRADESH STATE ELECTRICITY BOARD LIMITED
(A State Govt Undertaking)

No.HPSEBL/CE(SO&P)/IS-07A(Vol-X)/2013- 1065

Dated: 24.9.13

To

Sh. A. K. Bishoi,
AGM (Commercial),
NTPC Ltd, NTPC Bhawan.
Scope Complex, 7, Industrial Area,
Lodhi Road, New Delhi-110003.
Fax No. 011-24361018

Subject: Evacuation of Power from Singrauli Solar PV Power Plant
(15MW) – Authorization for obtaining Long Term Open
Access thereof.

Reference: Your office letter No. 01: CD:178 dated 17.09.2013

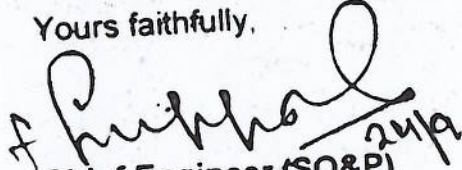
Sir,

In continuation to this office letter of even No.114 dated 16.4.2012, it is informed that M/s NTPC Limited is hereby authorized on behalf of HPSEBL to obtain Long Term Open Access in respect of Singrauli Solar Power Project (15 MW) from interconnection point i.e. 132 kV Singrauli Switchyard of NTPC Ltd. to H.P. Periphery in the similar manners as earlier authorization was given in the case of Anta Solar Power Plant.

It is further added that this authorization shall be considered as part of the agreement signed on dated 19.12.2012 between HPSEB Ltd. & NTPC Ltd. for all intents and purposes.

Thanking you,

Yours faithfully,


Chief Engineer (SO&P),
HPSEBL, Vidyt Bhawan,
Shimla-171004

P-90G/112

Dated: 10th December 2013

Executive Director (SEF & CE)
Power Grid Corporation of India Limited
 Saudamini, Plot No. - 2, Sector - 29,
 Near IFFCO Chowk,
 Gurgaon - 122 001, Haryana
 Fax: 0124 - 2571809

Dear Sir,

Sub: Application for Grant of Long Term Access in ISTS

We write with reference to your letter no. C/CTU/C/N/13/09 dated 16.08.2013 wherein the Company was granted Connectivity for 500 MW power at 2 X 500 MVA, 400/220 kV Greater Noida (New) Sub-station. In view of the above, the Company is hereby submitting the application for Long Term Access (LTA) in terms of the Hon'ble Central Electricity Regulatory Commission (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State Transmission and related matters) Regulations, 2009.

The Company is seeking LTA from 1st October 2017 for a period of 25 years i.e. till 30th September 2042. Further, the Company has also identified Western Region and Eastern Region as its target regions for procurement of Long Term power with a target quantum of 400 MW and 100 MW respectively.

We are submitting herewith following:

- a) Demand Draft no. 231285 Dated- 05/12/2013 issued by ICICI Bank amounting to Rs. 3,00,000.
- b) Bank Guarantee as per PGCIL's approved format, having no.- 130127IBGP00775 Dated- 05/12/2013 issued by IDBI Bank amounting to Rs. 50,00,000.

You are kindly requested to process the application and grant Long Term Access to the Company in terms of above regulations. Further, we shall be pleased to provide any additional information / documents for early processing of the application.

Thanking you,

Yours faithfully,

For Noida Power Company Limited


Rajiv Goyal
 General Manager (Projects & Power Trading)

-1/2-

Encl:

- a. Format LTA-1**
- b. Format LTA-2**
- c. Format LTA-4**
- d. Intimation for Grant of Connectivity from CTU**

A handwritten signature in black ink, appearing to be 'H. J. ...', located to the right of the list of attachments.

Application for Grant of Long -term Access (LTA)

1	Name of the Applicant	Noida Power Company Limited
2	Address for Correspondence	Commercial Complex, H – Block, Sector Alpha – II, Greater Noida, U.P.
3	Contact Details	
	Prime Contact Person	Rajiv Goyal
	Designation	General Manager (Project & Power Trading)
	Phone No.(Landline)	(0120) 2326559
	Phone No.(Mobile)	+91 9911998210
	Fax	(0120) 2333518
	E-Mail	rajivgoyal@noidapower.com
	Alternate Contact Person	Sanket Srivastava
	Designation	Assistant Manager (Power Trading)
	Phone No.(Landline)	(0120) 2326559
	Phone No.(Mobile)	+91 9718804966
	Fax	(0120) 2333518
	E-Mail	ssrivastava@noidapower.com
4	Nature of the Applicant	
	Normal Generator (other than captive)	-
	Captive Generator	-
	Bulk Consumer	-
	Electricity Trader	-
	Distribution Licensee	Yes
5	Details for Long Term Access (LTA)	
5a	Quantum (MW) for which LTA is required	500 MW
5b	Date from which LTA is required (not earlier than 3 years from the last day of the month in which the application has been received)	1 st October 2017
5c	Date upto which LTA is required (12 years to 25 years from the date from which LTA is required)	30 th September 2042
5d	Injection of Power (more than one only in case of single Drawal)	
	Entity-1	
	State/Region	Western Region
	Quantum-1	400 MW (Target)
	Connectivity with the Grid	



	Entity-2	
	State/Region	Eastern Region
	Quantum-2	100 MW (Target)
	Connectivity with the Grid	
	Entity-3	NA
	State/Region	
	Quantum-3	
	Connectivity with the Grid	
	Entity-4	NA
	State/Region	
	Quantum-4	
	Connectivity with the Grid	
5e	Drawal of Power (more than one only in case of single Injection)	
	Entity-1	Noida Power Company Limited
	State/Region	Uttar Pradesh
	Quantum-1	500 MW
	Connectivity with the Grid	2 X 500 MVA, 400 / 220 kV Greater Noida (New) Substation
	Entity-2	NA
	State/Region	
	Quantum-2	
	Connectivity with the Grid	
	Entity-3	NA
	State/Region	
	Quantum-3	
	Connectivity with the Grid	
	Entity-4	NA
	State/Region	
	Quantum-4	
	Connectivity with the Grid	
6	Details of DD/Cheque e-transaction (Application Fee)	
	Amount (in Rs.)	3,00,000/-
	DD/Cheque Transaction No.	
	Date	
	Bank Name	
	Branch Name	

gpe

7	Details of Bank Guarantee	
	Amount (in Rs.)	50,00,000/-
	Bank Name	
	Period of Validity	

me