

**BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

PETITION

FOR

Approval of NLDC Charges (POSOCO Portion)under CERC (fees & charges of Regional Load Despatch Centre and other related matters) regulation 2009 for control period 1.4.2009 to 31.3.2014

PETITION NO. :

POWER GRID CORPORATION OF INDIA LTD.

REGISTERED OFFICE: B-9, QUTAB INSTITUTIONAL AREA,
KATWARIA SARAI, NEW DELHI 110 016

AND

CORPORATE OFFICE: "SAUDAMINI" ,PLOT NO.2,
SECTOR-29, GURGAON -122 001. (HARYANA)

EPABX : 0124-25711700 TO 719, FAX :0124-2571989

**BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

FILE NO:.....

PETITION NO:.....

IN THE MATTER OF: Approval under subsection (4) of section 28 of Electricity Act 2003 read with regulation 4 of Central Electricity Regulatory Commission (fees & charges of Regional Load Despatch Centre and other related matters) Regulations 2009 for NLDC Charges (POSOCO Portion) for the control period 1.4.2009 to 31.3.2014

Power Grid Corporation of India Ltd.

--- **PETITIONER**

On behalf of Power System Operation Corporation Ltd.(POSOCO)

(Government of India Undertaking)

Registered office: B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi -110016 and Corporate Office at "Saudamini" ,Plot no.2,Sector-29, Gurgaon (Haryana)- 122 001.

Through RLDCs as per their user list

---**RESPONDENTS**

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**FILED BY
POWER GRID CORPORATION OF INDIA LTD.**

**Represented by: V.V.Sharma
General Manager (SO)**

New Delhi

Dated: .03.2010

**BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
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IN THE MATTER OF: Approval under subsection (4) of section 28 of Electricity Act 2003 read with regulation 4 of Central Electricity Regulatory Commission (fees & charges of Regional Load Despatch Centre and other related matters) Regulations, 2009 for NLDC Charges (POSOCO Portion) for the control period 1.4.2009 to 31.3.2014

Power Grid Corporation of India Ltd.
On behalf of Power System Operation Corporation Ltd.(POSOCO)
(Government of India Undertaking)
Registered office: B-9, Qutab Institutional Area,
Katwaria Sarai, New Delhi -110016 and
Corporate office at "Saudamini",Plot no.2,
Sector-29, Gurgaon (Haryana)- 122 001.

--- PETITIONER

Through RLDCs as per their user list

---RESPONDENTS

To

The Secretary
Central Electricity Regulatory Commission
New Delhi-110 003

Sir,

The application filed under section 28 sub-section (4) of the Electricity Act, 2003 read with regulation 4 of Central Electricity Regulatory Commission (fees & charges of Regional Load Despatch Centre and other related matters) Regulations, 2009 for NLDC Charges for the control period 1.4.2009 to 31.3.2014 may please be registered. Ten copies of the application are being filed and copy of the same has been sent to the RLDCs to send to all the respondents. It is also requested that the application filed for Ad-interim Ex-parte order may be taken as an urgent application.

**PETITIONER
POWER GRID CORPORATION OF INDIA LTD.**

**Represented by: V.V.Sharma
General Manager (SO)**

**New Delhi
Dated: .03.2010**

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MEMO OF PARTIES

Power Grid Corporation of India Ltd.
On behalf of Power System Operation Corporation Ltd.(POSOCO)
(Government of India Undertaking)
Registered office: B-9, Qutab Institutional Area,
Katwaria Sarai, New Delhi -110016 and
Corporate office at "Saudamini", Plot no.2,
Sector-29, Gurgaon (Haryana)- 122 001.

--- PETITIONER

VERSUS

Through RLDCs as per their user list attached at annex-I

--RESPONDENTS

**PETITIONER
POWER GRID CORPORATION OF INDIA LTD.**

**Represented by: V.V.Sharma
General Manager (SO)**

**New Delhi
Dated : .03.2010**

USERS LIST

Annexure-I

NRLDC

Users under the category of Distribution Licensees and Buyers

01. CMD, UPPCL, Uttar Pradesh Power Corporation Limited, Shakti Bhawan, 14-Ashok Marg, Lucknow-226001
02. Principal Secretary, Government of J&K, Civil secretariat, Srinagar,J&K.
03. CMD, Rajasthan Rajya Vidyut Prasaran Nigam Limited, Vidyut Bhawan, Vidyut Marg, Jaipur-302005
04. Chairman, Punjab State Electricity Board, The Mall, Patiala-147 001
05. Managing Director, Haryana Vidyut Prasaran Nigam Limited, Shakti Bhawan, Sector-6, Panchkula-134109.
06. CMD, Delhi Transco Limited, Shakti Sadan, Kotla Road, New Delhi-110 002
07. Chairman, Himachal Pradesh State Electricity Board, Kumar House, Vidyut Bhawan, Shimla-171004
08. Managing Director, Power Transmission Corporation of Uttarakhand Limited, 7-B, Lane No-1, Vasant Vihar Enclave, Dehradun - 248 001.
09. Chief Engineer, Electricity Department, UT Chandigarh, Sector 9-D, UT Chandigarh-160019
10. Chief Electrical Engineer, North Central Railway, GM Office Building, Allahabad, UP.
11. Executive Director, NRTS-I, Power grid Corporation of India Ltd., B-9, Qutab Institutional Area, New Delhi-110016

Users under the category of Generating Stations and Sellers

12. General Manager, Singrauli Super Thermal Power Station, Shakti Nagar, UP-231222
13. General Manager, Rihand Super Thermal Power Station-I, Rihand Nagar, UP-231223
14. General Manager, Rihand Super Thermal Power Station-II, Rihand Nagar, UP-231223
15. General Manager, Dadri National Capital Power Project, Dadri Dhaulana Road, Distt. Gautam Buddh Nagar, UP-201008
16. General Manager, Firoz Gandhi Unchahar Thermal Power Project-I, Unchahar, Distt. Raibareilly, UP
17. General Manager, Firoz Gandhi Unchahar Thermal Power Project-II, Unchahar,, Distt. Raibareilly, UP
18. General Manager, Firoz Gandhi Unchahar Thermal Power Project-III, Unchahar, Distt. Raibareilly, UP
19. General Manager, Dadri Gas Power Project, Dhaulana Road, Distt. Gautam Buddh Nagar, UP-201008
20. General Manager, Auraiya Gas Power Project(Gas Fired, RLNG Fired, Liquid Fired), Dibiyapur, Distt Etawah, UP-206244

21. General Manager, Anta Gas Power Project (Gas Fired, RLNG Fired, Liquid Fired), Distt. Baran, Rajasthan-325209
22. Station Director, Narora Atomic Power Station, Narora, Distt. Bulandshahar, UP-202389
23. Station Director, Rajasthan Atomic Power Station-B, Anu Shakti Vihar, Kota, Rajasthan-323303
24. General Manager, Bairasiul Hydro Electric Project, NHPC Ltd.,Surangini, Distt. Chamba, HP-176317
25. General Manager, Salal Hydro Electric Project, NHPC Ltd, Jyotipuram, Distt. Udhampur, J&K-182312
26. General Manager, Tanakpur Hydro Electric Project, NHPC Ltd., Banbassa, Distt. Champawa,Uttarakhand-262310
27. General Manager, Chamera-I Hydro Electric Project, NHPC Ltd., Khairi, Distt. Chamba, HP-176310
28. General Manager, Uri Hydro Electric Project, NHPC Ltd., Mohra, Distt. Baramulla, J&K-193122
29. General Manager, Chamera-II Hydro Electric Project,NHPC Ltd., Karian, Distt. Chamba, HP-176310
30. General Manager, Dhauliganga Hydro Electric Project, NHPC Ltd., Tapovan, Dharchula, Pithoragarh, Uttarakhand-262545
31. General Manager, Dulhasti Hydro Electric Project, NHPC Ltd., Chenab Nagar, Distt. Kishtwar, J&K-182206
32. General Manager, Satluj Jal Vidyut Nigam Ltd. Power Project, Jhakri, Rampur, Distt. Shimla, HP-172201
33. General Manager, Tehri Hydro Development Corporation Ltd.,Pragatipuram, Rishikesh, Uttarakhand-249201

Users under the category of Inter State Transmission Licensees

34. Executive Director, NRTS-I, Power Grid Corporation of India Ltd., B-9, Qutab Institutional Area, New Delhi-110016
35. Director, Operations , Powerlinks Transmission Ltd., 10th Floor, DLF Tower-A, District Centre, Jasola, New Delhi-110044

WRLDC

Users under the category of Distribution Licensees and Buyers

1. Managing Director, CSPTCL, P.O. Sundernagar, Dangania, Raipur-492013.
2. Chairman, GUVNL, Sardar Patel Vidyut Bhavan, Race Course, Vadodara-390 007.
3. Chairman&Managing Director, M.P Power Trading Co.Ltd, Shakti Bhavan, Vidyut Nagar, Rampur, Jabalpur-482008
4. Managing Director, MSEDCL, Prakashgad, Bandra (East), Mumbai-400051.
5. Chief Electrical Engineer, Goa Electricity Department, Government of Goa, Vidyut VBhavan, 3rd Floor, Panaji, Goa.
6. Secretary(P), UT of Dadra Nagar Haveli, Silvassa-396230.
7. Secretary , UT of Daman & Diu, Moti Daman.
8. Executive Director , WRTS-I, Power Grid Corporation of India Ltd., P O Uppalwadi, SampritinagarNagpur.440 026
9. Additional General Manager, Bhadravathi HVDC, Power Grid Corporation of India Ltd, Sumthana Village, Bhadravathi(Tahsil), Bhadravathi, Chandrapur(Dist), Maharashtra-442 902
10. Additional General Manager, Vindhayachal HVDC, Power Grid Corporation of India Ltd, P.O.Vindhyanagar, P.Box.No.12, Singrauli(Dist), Madhya Pradesh-486 885

Users under the category of Generating Stations and Sellers

11. General Manager, Korba STPS, National Thermal Power Corporation, P.O.Vikas Bhavan, Jamnipali, Korba(Dist), Chhattisgarh- 495 450
12. General Manager, STAGE-I, Vindhayachal STPS, National Thermal Power Corporation of India Ltd, P.O Vindhyanagar, Sidhi(Dist),Madhya Pradesh – 486 885
13. General Manager, STAGE-II, Vindhayachal STPS, National Thermal Power Corporation of India Ltd ,P.O Vindhyanagar, Sidhi(Dist),Madhya Pradesh – 486 885
14. General Manager, STAGE-III, Vindhayachal STPS, National Thermal Power Corporation of India Ltd, P.O Vindhyanagar, Sidhi(Dist),Madhya Pradesh – 486 885
15. General Manager, Kawas Gas Power Project, National Thermal Power Corporation of India Ltd , P.O.Aditya Nagar,Surat- 394 516
16. General Manager, Gandhar Gas Power Project, National Thermal Power Corporation of India Ltd, P.O.NTPC Township, Bharuch(Dist), Gujarat- 392215
17. General Manager, SIPAT TPS, National Thermal Power Corporation of India Ltd, SIPAT, Chhattisgarh.
18. Station Director,Tarapur Atomic Power Station 1&2, Nuclear Power Corporation of India Ltd,P.O.TAPP, Thane(Dist), Maharashtra- 401 504
19. Station Director,Tarapur Atomic Power Station 3&4, Nuclear Power Corporation of India Ltd,P.O.TAPP, Thane(Dist), Maharashtra- 401 504
20. Station Director, Kakrapar Atomic Power Station, Nuclear Power Corporation of India Ltd,Anumala.P.o, Via Vyara, Surat, Gujarat-395 651
21. Member(Power), NCA,EMC Office, D 3/4, Narmada Colony Scheme, No.78, Vijayanagar, Indore -452010
22. Executive Director, Jindal Power Limited,O.P.Jindal Super Thermal Power Plant, Village&P.O:Tamnar,Tehsil:Gharghoda, Dist: Raigarh, Chattisgarh- 496 107
23. General Manager(Comml), LANCO Amarkantak Power Pvt. Ltd.,Plot No. 397, Phase-III,Udyog Vihar, Gurgaon- 122016,Haryana
24. Chief Executive Officer , Adani Power Limited, Registered Office,Shikhar, 9th Floor, Near Mithakhali Road, Navarangpura, Ahamedabad- 380 009.

Users under the category of Inter State Transmission Licensees

25. Executive Director , WRTS-I, Power Grid Corporation of India Ltd., P O Uppalwadi, SampritinagarNagpur.440 026

ERLDC

Users under the category of Generating Stations and Sellers

1. General Manager Farakka Super Thermal Power Plant, NTPC, Farakka
2. General Manager Kahalgaon Super Thermal Power Plant – I, NTPC, Kahalgaon.
3. General Manager Kahalgaon Super Thermal Power Plant – II, NTPC, Kahalgaon.
4. Executive Director, Talcher Super Thermal Power Plant, Stage – II, NTPC, Talcher
5. Chief Engineer (Elect) Teesta Hydro, Teesta – V Hydro Electric Project, NHPC, Singtam, East Sikkim
6. Chief Engineer Rangeet Hydro Electric Project, NHPC, P. O. Rangit Nagar, South Sikkim.
7. Chief Engineer Burla Power House, Orissa Hydro Power Corporation Ltd., Dist. Sambalpur, Burla - 768017
8. Chief Engineer Mejia Thermal Power Station, DVC, P.O. MTPS, Dist Bankura – 722183

Users under the category of Distribution Licensees and Buyers

1. Chairman, Bihar State Electricity Board, Viduyut Bhavan, Bailey Road, Patna –800 021
2. Chairman, Jharkhand State Electricity Board, Engineering Bldg, Dhurwa Road, Ranchi, Jharkhand.
3. Chairman, Damodar Valley Corporation, VIP Road, Bidhannagar, Kolkata
4. Chairman, West Bengal State Electricity Distribution Corporation Ltd, Bidyut Bhawan Salt Lake, Kolkata
5. Chairman, Grid Corporation of Orissa Ltd, Janpath, Bhubaneswar
Secretary, Power Deptt, Govt of Sikkim, Power Deptt., Govt. of Sikkim, Kazi Road, Gangtok

Users under the category of Inter State Transmission Licensees

1. Executive Director, ERTS – I, Alankar Place, Patna
2. General Manager, Powerlinks Transmission Limited, Viduyut Nagar, P.O. Satellite Township, Siliguri – 734 015

SRLDC

Users under the category of Generating Stations and Sellers

- 1 General Manger
RAMAGUNDAM STG I & II
National Thermal Power Corporation
RSTPS, Jyothi Nagar, Dist. Karim Nagar, A.P. 505 215
- 2 General Manger
RAMAGUNTAM STG III
National Thermal Power Corporation
RSTPS, Jyothi Nagar, Dist. Karim Nagar, A.P. 505 215
- 3 General Manger
NTPC, TALCHER STG II
Angul, Orissa-7591011
- 4 General Manger
NLC TPS II STG I
Neyveli Lignite Corpn. Ltd ,
Thermal Power Station II, Neyveli 607 807, Tamil Nadu
- 5 General Manger
NLC TPS II STG II
Neyveli Lignite Corpn. Ltd ,
Thermal Power Station II, Neyveli 607 807, Tamil Nadu
- 6 General Manger
NLC TPS I EXPANSION
Neyveli Lignite Corpn. Ltd
Thermal Power Station I (Expn.), Neyveli 607 807, Tamil Nadu
- 7 Station Director
MAPS
Nuclear Power Corpn. Of India Ltd
Madras Atomic Power Station, Kalpakkam – 603 102, Tamil Nadu
- 8 Station Director
KGS UNITS 1&2
Nuclear Power Corpn. Of India Ltd
Kaiga Generating Station, Kaiga – 581 400, Karwar, Karnataka
- 9 Station Director
KGS UNIT 3
Nuclear Power Corpn. Of India Ltd
Kaiga Generating Station, Kaiga – 581 400, Karwar, Karnataka
- 10 Chairman & Managing Director
LANCO, KODAPALLI
LANCO KONDAPALLI POWER PVT. LTD
Kondapalli, Ibrahimpatnam Mandal, PIN 521 228 (A.P.)

Users under the category of Distribution Licensees and Buyers

- 11 Executive Director SR-II
Power Grid Corporation of India
Southern Regional Transmission System – II
32, Race Course Raod, Bangalore – 560 001
- 12 Chairman & Managing Director ,APTRANSCO
Vidyut Soudha, Hyderabad – 500 082
- 13 Managing Director ,KPTCL

- 14 Cauvery Bhavan, Bangalore-560 009,Karnataka
Chairman ,KSEB
Vaidyuthi Bhavanam, Pattom
Trivandrum-695 004, Kerala
- 15 Chairman , TNEB
144, Anna Salai
Chennai – 600 002, Tamil Nadu
- 16 Secretary (Power),PUDUCHERRY ELE. DEPT
Electricity Dept. of Pondicherry
Pondicherry – 605 001
- 17 Goa Electricity Board
Office of Chief Electrical Engineer (Electrical)
Govt. of Goa, Vidyuth Bhavan, 3rd Floor, Panaji, Goa-403001

Users under the category of Inter State Transmission Licensees

- 18 Executive Director SR-II
Power Grid Corporation of India
Southern Regional Transmission System – II
32, Race Course Raod, Bangalore – 560 001

NERLDC

Users under the category of Distribution licensees and Buyers

01. Chairman, ASEB, Bijuli Bhavan, Paltan Bazar, Guwahati-781001
02. Chairman, MeSEB, Lumjingshai, Short Round Road, Shillong-793001
03. Chairman & Managing Director, TSECL Agartala-799001, Tripura
04. Chief Engineer (W Zone), Dept. of Power, Govt. of Ar. Pradesh, Itanagar- 791111
05. Engineer-in-Chief, Dept. of Power, Govt. of Mizoram, Aizawl- 796001, Mizoram
06. Chief Engineer (Power), Dept. of Power, Govt. of Nagaland, Kohima- 797001
07. Chief Engineer (Power), Dept. of Power, Govt. of Manipur, Imphal- 795001

Users under the category of Generating Stations and Sellers

1. General Manager, Doyang HEP, NEEPCO, Wokha, Nagaland
2. General Manager, Ranganadi HEP, NEEPCO, P.O. Ranganadi Proj. Dist. Subansiri, Ar. Pradesh- 791121
3. General Manager, AGBPP, NEEPCO, Kathalguri, Tinsukia, Assam
4. General Manager, AGTPP, NEEPCO, Ramchandranagar, Agartala, Tripura
5. General Manager, KHANDONG HEP, NEEPCO, Umrangsoo, N.C.Hills, Assam
6. General Manager, KOPILI HEP, NEEPCO, Umrangsoo, N.C.Hills, Assam
7. General Manager, KOPILI-2 HEP, NEEPCO, Umrangsoo, N.C.Hills, Assam
8. Chief Engineer, NHPC Loktak HEP Leimatak-795124, Manipur

Users under the category of Inter State Transmission Licensees

1. Executive Director, NERTS, Power Grid Corporation of India Ltd., Lapalang, Shillong-793006, Meghalaya

**BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

FILE NO:.....

PETITION NO:.....

IN THE MATTER OF: Approval under subsection (4) of section 28 of Electricity Act 2003 read with regulation 4 of Central Electricity Regulatory Commission (fees & charges of Regional Load Despatch Centre and other related matters) Regulations 2009 for NLDC Charges (POSOCO Portion) for the control period 1.4.2009 to 31.3.2014

Power Grid Corporation of India Ltd.
On behalf of Power System Operation Corporation Ltd.(POSOCO)
(Government of India Undertaking)
Registered office: B-9, Qutab Institutional Area,
Katwaria Sarai, New Delhi -110016 and
Corporate office at "Saudamini" ,Plot no.2,
Sector-29, Gurgaon (Haryana)- 122 001.

--- PETITIONER

Through RLDCs as per their user list

---RESPONDENTS

Affidavit

I, **V.V.Sharma**, working as General Manager (SO) in the Power Grid Corporation of India Ltd. , having its registered office at B-9, Institutional Area, Katwaria Sarai, New Delhi-110 016, do solemnly affirm and state as follows:-

1. I, **V.V.Sharma**, General Manager (SO), Power Grid Corporation of India Ltd., the representative of the Petitioner in the above matter, am duly authorized to make this affidavit.
2. That I submit that enclosed petition is being filed for determination of NLDC charges.
3. I submit that no other petition except this petition has been filed directly or indirectly for approval of NLDC charges.
4. The statements made in the Petition herein are based on the Petitioner Company's official record maintained in the ordinary course of business and I believe them to be true and correct.
5. All the documents attached herewith are legible copies.

(DEPONENT)

VERIFICATION

Solemnly affirmed at New Delhi on this ...day of March,2010, that the contents of the above affidavit are true to my knowledge and belief and no part of it is false and nothing material has been concealed therefrom.

(DEPONENT)

**BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
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--- PETITIONER

Through RLDCs as per their user list

---RESPONDENTS

To

**The Hon'ble Chairman and
His Companion Members of The Hon'ble CERC
The Humble application filed by the Petitioner**

MOST RESPECTFULLY SHOWETH

1. The Petitioner herein, Power Grid Corporation of India Limited, is a Government company within the meaning of u/s 617 of Companies Act 1956. Power System Operation Corporation Ltd. (POSOCO) is wholly owned subsidiary of Power Grid Corporation of India Ltd., which has been created as per the directives of Government of India(GOI) by order no-41/20/2005-PG Dated 4-July-2008 (Encl-1, page no to). NLDC has been constituted at national level under section 26 of Electricity Act-2003. POSOCO is also discharging the statutory functions of NLDC under various applicable provisions, including in particular GOI order dated 2nd March-2005(Encl-2, page no to) wherein constitution of NLDC and functions of the NLDC is defined. This petition is being filed by Power Grid Corporation of India Limited on behalf of POSOCO.
2. As per GOI order dated 4-July-2008 ,POSOCO, the wholly owned subsidiary of Power Grid Corporation of India Ltd, will be responsible for system operations of NLDC & RLDCs. Functions as per GOI letter dated 4th July, 2008 of POSOCO are (i) to supervise and control, all aspects concerning operations and manpower requirement of RLDCs and NLDC. All the employees and executives working with RLDCs and NLDC will be from the cadres of POSOCO., (ii) to act as the apex organization for human resource requirement of NLDC and RLDCs, (iii) to ensure planning and implementation of infrastructure required for smooth operation and development of

NLDC and RLDCs, (iv) to coordinate the functioning of NLDC and RLDCs, (v) to advise and assist state level LDCs including specialized training etc. and (vi) to perform any other function entrusted to it by the Ministry of Power. The NLDC shall be the apex body to ensure integrated operation of the national Power System and may give such directions and exercise supervision and control as may be required for ensuring integrated grid operation and shall be inter-alia responsible for carrying out real time operations for grid control and despatch of electricity over inter-regional links in accordance with the Grid Standards and the Grid Code .

Considering the critical role of NLDC for ensuring integrated grid operation of a large Indian power system, it was considered essential that a modern state-of-the-art *Supervisory Control and Data Acquisition System (SCADA) and Energy Management System (EMS)* along with dedicated communication is established at NLDC New Delhi with backup at Kolkata. The availability of real time power system monitoring facilities at national level will be crucial for coordinated operation of national grid to facilitate bulk exchange of power among regions and synchronous operation of national grid.

3. As per Section 79 of the Electricity Act' 2003, the function of CERC inter-alia include regulation to determine annual charges for NLDC. NLDC has been constituted as per Ministry of Power Notification dated 2nd March, 2005 and following functions have been assigned:
 - (a) supervision over the Regional Load Despatch Centres;
 - (b) scheduling and despatch of electricity over inter-regional links in accordance with grid standards specified by the Authority and grid code specified by Central Commission in coordination with Regional Load Despatch Centres;
 - (c) coordination with Regional Load Despatch Centres for achieving maximum economy and efficiency in the operation of National Grid;
 - (d) monitoring of operations and grid security of the National Grid;
 - (e) supervision and control over the inter-regional links as may be required for ensuring stability of the power system under its control;
 - (f) coordination with Regional Power Committees for regional outage schedule in the national perspective to ensure optimal utilization of power resources;
 - (g) coordination with Regional Load Despatch Centres for the energy accounting of inter-regional exchange of power;
 - (h) coordination for restoration of synchronous operation of national grid with Regional Load Despatch Centres;
 - (i) coordination for trans-national exchange of power;
 - (j) providing operational feed back for national grid planning to the Authority and the Central Transmission Utility;
 - (k) levy and collection of such fee and charges from the generating companies or licensees involved in the power system, as may be specified by the Central Commission.
 - (l) dissemination of information relating to operations of transmission system in accordance with directions or regulations issued by Central Electricity Regulatory Commission and the Central Government from time to time.
4. The administrative approval and expenditure sanction for establishment for NLDC was accorded by Government of India vide letter No12/15/2003-PG dated 24th May,2005, at an estimated cost of Rs 44.96 crores, including IDC of Rs. 1.77 Crs. at 4th quarter, 2004 price level. A copy where of is enclosed hereto as Enclosure 3, page no to .
5. The final scope of work under NLDC scheme is as follows :-
 - (i) Establishment of control centre at B-9, Katwaria Sarai, New Delhi with backup at ERLDC Kolkata.

- (ii) Interface equipment like routers and hub for data acquisition from RLDCs at RLDCs and NLDC/ Backup NLDC.
 - (iii) Communication Systems for data, voice and fax between RLDCs, NLDC and Backup NLDC through dedicated wideband networks on fibre optics.
 - (iv) Auxiliary power supply system
 - (v) Other infrastructural facilities such as air-conditioning, fire-fighting, DG set construction/renovation of buildings, etc
6. It is submitted that the Petitioner has entered into a Agreement with all the beneficiaries of the regions individually for the establishment of load despatch and communication facilities under NLDC scheme, a copy whereof is enclosed as enclosure 4, page no to . The broad scope of work and responsibilities of the Petitioner are identified at Para 2 & 3 .
7. The allocation of responsibilities in implementation of the NLDC scheme, envisages that POWERGRID would be inter-alia responsible for preparation of detailed specifications, invitation of tenders, evaluation of bids, award of contracts for supply, erection, testing and commissioning of load dispatch and communication equipments, total design and engineering of the unified scheme.
8. It is submitted that the as per original project approval letter dated 24th May,2005, NLDC scheme was scheduled to be commissioned within 36 months from the date of approval , i.e. June,2008 . However, the NLDC scheme was declared operational w.e.f. 01-04-2009 with delay of nine months. The letter vide which the NLDC scheme was declared under commercial operation is enclosed as enclosure 5, page no. . It may be mentioned that considering the complexity involved in EMS/SCADA Package, it was proposed by POWERGRID to adopt two stage International Competitive bidding for procurement of this package i.e. un-priced technical/commercial bid including qualification of bidders followed by price which was approved by World Bank.

Reasons for Delay:

Delay in getting clearance from MCD for modification of existing building. The clearance letter from MCD is enclosed as enclosure 6, page no to . It may be seen from the above that the reasons for delay in the implementation of the project has been beyond the reasons attributable to POWERGRID and the delay may be condoned.

9. This petition is being filed for Fees and Charges of NLDC(POSOCO Portion) only. The estimated completion capital cost of NLDC scheme which is under commercial operation w.e.f. 01.04.2009 is Rs. 4161.25 Lakhs as per Auditor's Certificate which is enclosed as enclosure 7, page no to .The estimated completion Capital cost Rs. 3154.43 lakhs (excluding the cost of communication system) has been considered for the calculation of annual charges of NLDC. This is against an approved cost of Rs2782.8 lakhs including an IDC of Rs. 109.52 lakhs. Petition for communication system under this scheme is being filed separately by POWERGRID (estimated completion capital cost of communication system is Rs 1006.82 lakhs). The segregation of the assets of NLDC scheme into control centre assets and communication assets have been carried out as per the recommendations of the "Report of the Task Force on Capital Expenditure and Issues Related to Emoluments for Personnel in Load Despatch Centres" under the chairmanship of Shri Satnam Singh. The report is enclosed as enclosure 8, page no to . The total capital cost including the balance estimated expenditure is Rs. 4161.25 lakhs which is well within the approved cost of Rs.4496 lakhs.

10. Annual charges of NLDC

It is submitted that NLDC scheme is a state of art project, highly sophisticated and has been implemented to monitor, operate and control the national power grid in a unified, coordinated and integrated manner.

In view of the foregoing, the Petitioner has worked out fees and charges of NLDC by following the methodology specified for computing annual charges of RLDCs except interest on working capital as per clause 18 of the Regulations, 2009 (Fee and Charges of RLDCs and other related matters). Relevant information and calculations for working out the Fee and Charges along with supporting documents (Form 1 to 10) are enclosed here to as enclosure 9, page no to .

The NLDC charges comprise of investment on NLDC scheme up to DOCO i.e. 1.4.2009, additional capitalization in 2009 to 2011, CAPEX, depreciation, O&M and human resource expenses. Capital Expenditure (CAPEX) of Rupees 900 lakhs would be incurred for renovation and modernisation of the NLDC building, IT applications, Software for Open Access, Power Exchange Scheduling, SAP, Data ware house for NLDC, etc.

The details of Additional capitalization and CAPEX for the period 2009 to 2014 and details of financing are given in Form- 4E and Form- 4H respectively.

The summary of capital expenditure as on 31.3.2009 and the projected capital expenditure upto 2013-14 is as summarized below:

All Figures in Rs Lakhs

Expenditure upto DOCO	Balance estimated expenditure Including add-cap and CAPEX					Total estimated expenditure upto
	2009-10	2010-11	2011-12	2012-13	2013-14	
31.3.2009	2009-10	2010-11	2011-12	2012-13	2013-14	31.3.2014
1940.47	491.77	1121.74	200	300	150	4203.98

The annual charges of NLDC shall be apportioned amongst the RLDCs on the basis of demand served in the respective region. The terms & conditions and norms for computing the NLDC charges are as under:

a) RETURN ON EQUITY

Return on equity @ 24.239% per annum on the equity amount deployed.

ROE=Base Rate/ (1-t), t=applicable tax rate (33.99%) per annum

ROE= (16/ (1-0.3399)) = 24.239%

All values in Rs Lakhs

YEARS	2009-10	2010-11	2011-12	2012-13	2013-14
RETURN OF EQUITY	158.98	217.65	265.70	283.88	300.25

The detailed calculation of Return on Equity is given in Form-2.

b) INTEREST ON LOAN CAPITAL

The project was funded through World Bank loan and domestic loans. Further, yearly interest on loan has been considered during the period of 2009-14.

All values in Rs Lakhs

YEARS	2009-10	2010-11	2011-12	2012-13	2013-14
Interest on Loan	92.77	109.84	108.08	70.79	33.10

The details of Interest on Loan are given in Form-5A.

That Interest on Loan has been calculated on the basis of rate prevailing as on 01.04.2009. The change in Interest rate due to floating rate of interest applicable, if any, for the project needs to be claimed / adjusted over the control period i.e. from 1.4.2009 to 31.3.2014 directly from the beneficiaries.

c) DEPRECIATION

Depreciation on the assets is calculated as per CERC (Fees & charges of Regional Load Despatch Centre and other related matters) Regulations, 2009 dated 18th Sept 2009.

All values in Rs Lakhs

Financial Year	2009-10	2010-11	2011-12	2012-13	2013-14
Depreciation	365.83	490.29	588.43	477.40	391.74

Details of calculation are given in Form-6A.

d) OPERATION AND MAINTANENCE EXPENSES EXCLUDING HUMAN RESOURCE EXPENSES

The Operation and Maintenance charges include repair and maintenance of SCADA/EMS system, AC Plant, DG set, other charges towards water, power supply, housekeeping, etc. and administrative and general expenses. The charges towards POSOCO Corporate have also been considered in General and Administrative expenditure. In the absence of past data AMC charges of SCADA-EMS have been taken at the rate of 10% of the cost of the equipment and would be subject to adjustments as per actual. The data exchange between main & backup NLDC and other control centers is performed through open access gateway. Real time data from SCADA-EMS system of different vendors is interfaced with main and backup NLDC. Additional interface to external world is provided through secured DMZ zone with redundant WEB servers & data replication servers. Mail server exist for mail exchange with RLDCs. Due to complexity of integration of different technologies the cost implication for maintenance would be 10% to 15% of the capital cost of the NLDC SCADA-EMS system.

All values in Rs Lakhs

Financial Year	2009-10	2010-11	2011-12	2012-13	2013-14
Operation and Maintenance Expenses	1138.51	1204.43	1274.19	1524.32	1612.52

The details of Operation and Maintenance expenses are given in Form 7A, Form-7C & Form 7D respectively.

e) HUMAN RESOURCE EXPENSES

Human resource expenses for NLDC have been calculated considering the present employee cost to company and escalating it at the rate of 5.72% for the subsequent years as provided in the RLDC Fee & Charges Regulation. Manpower has been increased progressively in line with GB Pradhan Committee Report and to meet the functional requirement for fulfilling the following functions:

- facilitating the reform process in the Indian Power Sector

- expanding market operation functions under power exchange, short term open access, medium term contracts, long term contracts
- collection and disbursement of large funds
- international activities related with VLPGO, SAARC , TSO comparison
- secretariat for FOLD
- nodal agency for disaster management at central level
- ancillary services
- institutional building
- capacity building of SLDCs
- integration of renewable energy sources
- any other function assigned by Govt of India and CERC from time to time

All values in Rs Lakhs

Financial Year	2009-10	2010-11	2011-12	2012-13	2013-14
HR Cost	696.94	1306.15	1749.39	2116.22	2493.66

The details of calculations are given in Fom-7B

It is submitted that the wage revision of the non executive employees of the petitioner company is due w.e.f. 1.1.2007 and actual impact of wage hike is still not known in respect of the non executives. The petitioner reserves the right to approach the Hon'ble Commission for suitable revision in HR expenditure on wage revision of non executives.

11. NLDC Charges for the year 2009-10 to 2013-14 has been calculated and are summarized below.

All values Rs in Lakhs

Particulars	2009-10	2010-11	2011-12	2012-13	2013-14
Return on Equity	158.98	217.65	265.70	283.88	300.25
Interest on Loan Capital	92.77	109.84	108.08	70.79	33.10
Depreciation	365.83	490.29	588.43	477.40	391.74
O & M Expenses excluding Human Resource Expenses	1138.51	1204.43	1274.19	1524.32	1612.52
Human Resource Expenses	696.94	1306.15	1749.39	2116.22	2493.66
Total	2453.04	3328.36	3985.80	4472.61	4831.26

The details of calculations are given in Fom-1.

12. These charges shall be apportioned among RLDCs on the basis of demand served in the respective regions. Proportion of each RLDCs has been calculated on the basis of demand served in the respective region for the year 2008-09 as per CEA Report "Load Generation Balance Report 2009-10".

Actual Demand Served on Regional basis in year 2008-09

(As per CEA Report PEAK DEMAND MET April-08- March-09)

Region	All India	Northern Region	Western Region	Eastern Region	Southern Region	North Eastern Region
Demand Met (MW)	99049	29,504	30,153	11,789	26,245	1,358
Ratio (All india vs Regions)	1.000	0.298	0.304	0.119	0.265	0.014
% Demand met	100	29.8	30.4	11.9	26.5	1.4

Apportionment of NLDC charges among the RLDCs

All figures in Rs lakhs

	2009-10	2010-11	2011-12	2012-13	2013-14
Total Annual NLDC Charges	2453.04	3328.36	3985.80	4472.61	4831.26
NR Proportion	730.69	991.43	1187.26	1332.27	1439.10
WR Proportion	746.77	1013.24	1213.38	1361.58	1470.76
ER Proportion	291.97	396.15	474.40	532.34	575.03
SR Proportion	649.98	881.91	1056.12	1185.11	1280.14
NER Proportion	33.63	45.63	54.65	61.32	66.24

13. An expenditure of Rs 127.09 lakhs has been incurred as pre-incorporation expenses of POSOCO. The details are as per enclosure-10, page no. to . These charges shall be reimbursed by the users of the RLDCs as one time expenses in proportion to the NLDC charges.

14. The extra rupee liability towards interest payment and loan repayment against the foreign loan not being hedged, corresponding to the normative foreign currency loan, in the relevant year shall be adjusted/recovered on yearly basis.

15. The other charges viz., any other taxes, cess, late payment surcharge etc. would be payable extra. Moreover, Service Tax if any shall be charged separately.

16. In the circumstances mentioned above, it will be just and proper that the charges for NLDC to be allowed to be recovered from the users of the RLDCs on the basis set out in para-12 above, subject to requisite adjustment to be done after completion of all minor leftover works, determination of final completion cost and approval of final charges by the Hon'ble Commission.

PRAYER

It is respectfully prayed that the Hon'ble Commission may be pleased to

1. Approve the charges for NLDC, as per para-11 & 12 above, for control period 1.4.2009 to 31.03.2014.
2. Approve the Add Cap and CAPEX mentioned at para 10 .
3. Allow the petitioner to bill and adjust impact on Interest on Loan due to change in Interest rate on account of floating rate of interest applicable during 2009-14 period, if any, from the respondents.
4. Allow the petitioner to bill and recover Service Tax on RLDC charges separately from the respondents, if petitioner is subjected to such service tax.
5. Allow the petitioner to bill and adjust impact on HR expenses due to revision of pay in case of non executives w.e.f. 1.1.2007 during 2009-14 period, if any, from the respondents.
6. Allow the petitioner to bill and recover Pre-incorporation expenses of POSOCO as one time charges from the users.
7. Approve the reimbursement of expenditure towards publishing of notices in Newspapers and other expenditure (if any) in relation to the filing of petition.
8. Pass such other order as the Hon'ble Commission deems fit and appropriate in these circumstances of the case and in the interest of justice.

**FILED BY
POWER GRID CORPORATION OF INDIA LTD.**

**Represented by: V.V.Sharma
General Manager (SO)**

**New Delhi
Date .03.2010**

**BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

FILE NO:.....

PETITION NO:.....

IN THE MATTER OF: Approval under subsection (4) of section 28 of Electricity Act 2003 read with regulation 4 of Central Electricity Regulatory Commission (fees & charges of Regional Load Despatch Centre and other related matters) Regulations 2009 for NLDC Charges (POSOCO Portion) for the control period 1.4.2009 to 31.3.2014

Power Grid Corporation of India Ltd.
On behalf of Power System Operation Corporation Ltd.(POSOCO)
(Government of India Undertaking)
Registered office: B-9, Qutab Institutional Area,
Katwaria Sarai, New Delhi -110016 and
Corporate Office at “Saudamini” ,Plot no.2,
Sector-29, Gurgaon (Haryana)- 122 001.

--- PETITIONER

Through RLDCs as per their user list

---RESPONDENTS

Misc. Application For Ad-Interim Ex-Parte order for charges of NLDC

1. The Petitioner submits that the main petition is filed for approval under subsection (4) of section 28 of Electricity Act 2003 for NLDC Charges under CERC regulation 2009 (RLDC Fees & Charges) for control period 1.4.2009 to 31.3.2014. To avoid repetition of facts, the Petitioner prays that this application may be treated as part of the main petition. The assets have been put under commercial operation. POSOCO has recently been formed, therefore, it is prayed that for its sustenance, the NLDC charges have to be billed and realised from the respondents to meet the expenditure on maintenance, debt servicing and other obligations.
2. It is, therefore, prayed that the Hon'ble commission may be pleased to pass an Ad-interim Ex-parte Order permitting the Petitioner to bill and recover NLDC annual charges on monthly basis with effect from the date of commercial operation i.e. 01.04.2009, as mentioned in Para-11&12 of main petition, till the disposal of the main petition in the interest of Justice else the Petitioner will suffer irreparable loss and injury.

**FILED BY
POWER GRID CORPORATION OF INDIA LTD.**

**Represented by: V.V.Sharma
General Manager (SO)**

**New Delhi
Dated : -03-10**

**BEFORE
THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

FILE NO:.....

PETITION NO:.....

IN THE MATTER OF: Approval under subsection (4) of section 28 of Electricity Act 2003 read with regulation 4 of Central Electricity Regulatory Commission (fees & charges of Regional Load Despatch Centre and other related matters) Regulations 2009 for NLDC Charges (POSOCO Portion) for the control period 1.4.2009 to 31.3.2014

Power Grid Corporation of India Ltd. ---

PETITIONER

On behalf of Power System Operation Corporation Ltd.(POSOCO)

(Government of India Undertaking)

Registered office: B-9, Qutab Institutional Area,

Katwaria Sarai, New Delhi -110016 and

Corporate Office at “Saudamini” ,Plot no.2,

Sector-29, Gurgaon (Haryana)- 122 001.

Through RLDCs as per their user list

---RESPONDENTS

Affidavit

I, V.V.Sharma s/o Late Sh. P.C.Sharma, working as General Manager(SO), Power Grid Corporation of India Ltd. , having its registered office at B-9, Institutional Area, Katwaria Sarai, New Delhi-110 016, do solemnly affirm and state as follows:-

1. I, V.V.Sharma, General Manager (SO), Power Grid Corporation of India Ltd., am the representative of the Petitioner in the above matter, and am duly authorised to make this affidavit.
2. The statements made in the application herein are based on the Petitioner Company's official record maintained in the ordinary course of business and I believe them to be true and correct.

(DEPONENT)

VERIFICATION

Solemnly affirmed at New Delhi on this the ...day of March, 2010 that the contents of the above affidavit are true to my knowledge and belief and no part of it is false and nothing material has been concealed there from.

(DEPONENT)