|  |  |
| --- | --- |
|  |   **पंजीकृत कार्यालय :शक्ति सदन, कोटला रोड़, न्यू दिल्ली-110002**(Regd. Office Shakti Sadan, Kotla Road, New Delhi-110002) **कार्यालय उपमहाप्रबंधक (एस.ओ.)** **Office of Dy. General Manager (SO)****एस एल डी सी बिल्डिंग, मिंटो रोड़, न्यू दिल्ली-110002** SLDC Building, Minto Road, New Delhi-110002Ph: 23221149 FAX No.23221012 |
| **No. F./DTL/207/12-13/DGM(SO)/102** | **Dated : 20.04.2012**  |

**Subject : Agenda of the 6th meeting of Grid Coordination Committee, Delhi.**

Dear Sir, / महोदय

The agenda of the 6th Meeting of Grid Coordination Committee (GCC), Delhi is scheduled to be held on 08.05.2012 at 11:00hrs, is enclosed. The meeting is hosted by IPGCL / PPCL. The venue of the meeting is **Hotel Connaught, Near Shivaji Stadium Bus Terminal, Connaught Place, New Delhi-110001**. For any further information Sh. R.K. Yadav, Tel No.9717964845 may be contacted.

You are requested to make it convenient to attend the meeting

Thanking you,

 भवदीय / Yours faithfully

Encl : As above

(**वी.वेणुगोपाल)/(V. Venugopal )**

 **(उपमहाप्रबंधक (एस.ओ.)/**Dy. G. M. (SO)

 Convener (GCC)

 To,

|  |  |
| --- | --- |
| 01 | **Sh. A. K. Halder** Director (Operations), **Chairman, GCC**. Delhi Transco Ltd, 1st floor, Shakti Sadan Building, Kotla Road, New Delhi-110002, Office-Phone- 011-23232715, Fax : 23232721 |
| 02 | **Sh. Raj Bhartiya****Executive Director**, Delhi Transco Ltd. Shakti Deep Building, Jhandewalan, Delhi-110055 |
| 03 | **Sh. Prem Parkash,** **General Manager (O&M)-I,** Delhi Transco Limited**,** 220kVParkstreet S/stn Building, Opp. Talkatora Stadium, Near RML Hospital, Park Street, New Delhi-1, Office Phone - 011-23366462 Fax: 011-23366160 |
| 04 | **Sh. R.K. Tola****General Manager (O&M)-II**Shakti Deep Building, Jhandewalan, Delhi-110055 |

|  |  |
| --- | --- |
| 05 | **Sh. Bhupender Nath** **General Manager (Commercial),** Delhi Transco Ltd, IP Estate Bldg, New Delhi-110002 |
| 06 | **Sh. Roop Kumar****General Manager (SLDC),** SLDC DelhiSLDC Building, 33kV Grid S/Stn Building, Minto Road, New Delhi-110002, Phone Office:011-23221091, Fax:011-23221069 |
| 07 | **Sh. Nirmaljit Singh,****General Manager (Project)-I**, Delhi Transco Ltd.Shakti Deep Building, Room No.1, Jhandewalan, Delhi-110055. Ph. 23538268, 23525764 |
| 08 | **Sh. H. Vyas****General Manager (Project)-II,** Delhi Transco Ltd.Shakti Deep Building, Jhandewalan, Delhi-110055. |
| 09 | **Ms. Kiran Saini****Dy. General Manager (SCADA),** SLDC DelhiSLDC Building, 33kV Grid S/Stn Building, Minto Road, New Delhi-110002  |
| 10 | **Sh. V. V. Sharma** **General Manager (NRLDC),**18-A, SJSS Marg, New Delhi-16, Office Phone : 011-26537351, Fax: 011-26852747 |
| 11 | **Sh. P.K. Ray****Director(Tech), IPGCL,**Himadri Building, Rajghat Power House, New Delhi-2. Office Phone : 011-23273544, Fax: 011-23270590 |
| 12 | **Sh. S.C. Sharma,****Advisor, BYPL**Shakti Kiran Building, Karkardooma, Delhi |
| 13 | **Sh. Chander Mohan**Vice President& Head, Network Operation, BRPLBSES Bhawan, Nehru Place, New Delhi |
| 14 | **Chief Engineer (Transmission System)**, BBMBSLDC Complex, Sector-28, Industrial Area Phase-I, Chandigarh. |
| 15 | **Sh. Sanjay Banga,****HOD(PSC&A), TPDDL**SCADA Building, Near Netaji Place Subash Place Metro Station, Pitampura, Delhi 34 Phone Office: 011- 27468027, Fax: 011-27468023 |
| 16 | **Sh. Ajay Kumar,** **VP(PMG), BRPL,** Building No 20, Nehru Place**,** New Delhi–110019. Office: 011- 39996052 Fax: 011- 39996055 |
| 17 | **Sh. N. K. Kothari,** **General Manager,**NTPC, Badarpur BTPS, New Delhi-44 Office Phone: 011- 26949523, Fax: 011- 26949532 |

|  |  |
| --- | --- |
| 18 | **Col. Ballaney R.N., CWE,** CWE (Utilities), MES, Delhi Cantt, New Delhi – 110010. Phone Office: 011- 25692364, Fax: 011- 25687850 |
| 19 | **Sh. N.S.Sagar** **Chief Engineer (Elect),NDMC**Room No. 1701, 17th Floor, Palika Kendra, Sansad Marg, New Delhi-110001  |
| 20 | **Ms. Anjuli Chandra, Executive Director (Engg.), DERC**DERC Viniyamak Bhawan, C-Block, Shivalik, New Delhi-17 |
| 21 | **Sh. Anant Mishra, GM (Project)**Timarpur – Okhla Waste Management Company Pvt Ltd, Jindal ITF Centre, 28, Shivaji Marg, New Delhi-110015, Fax No. 011-45021982 |
| 22 | **Sh. Anish Garg**Joint Director (Eng.), DERC Viniyamak Bhawan, C-Blk, Shivalik, New Delhi-17 |
| 23 | **Sh. Surender Babbar** |
|  | Dy. General Manager (Finance-I), DTL, Shakti Sadan, New Delhi 110002 |
| 24 | **Sh. D.N.Sondhi**Dy.G.M (Finance)-II, DTL |

Copy for favour of kind information to :-

* 1. Secretary, DERC, Viniyamak Bhawan, C-Block, Shivalik, New Delhi-17
	2. Chairman and Managing Director, DTL
	3. Chairperson, New Delhi Municipal Council, Palika Kendra, Sansad Marg, New Delhi
	4. Member Secretary, NRPC, Katwaria Sarai, New Delhi-110016
	5. CEO, BSES Rajdhani Power Ltd, BSES Bhawan, Nehru Place, New Delhi-110019
	6. CEO, BSES Yamuna Power Ltd, Shakti Kiran Building, Karkardooma, New Delhi-92
	7. Managing Director, Tata Power Delhi Distribution Ltd.,33kV Grid S/Stn, Hudson Lane, Kingsway Camp, Delhi-110009
	8. Chief Engineer(Utilities),CWE, MES, Kotwali Road, Near Gopi Nath Bazar, Delhi Cantt New Delhi-10
	9. Managing Director, Indraprastha Power Generation Company Ltd (Genco) / Pragati Power Corporation Ltd (PPCL), Himadri, Rajghat Power House, New Delhi-110002
	10. Director (Finance), DTL, Shakti Sadan, New Delhi 110002
	11. CEO, JUIL/TOWMCL, JITF Urban, Infrastructure Ltd. Jindal ITF Centre, 28, Shivaji Marg, new Delhi-110015
	12. Member (Power Regulation), BBMB, Sector-19-B, Madhya Marg, Chandigarh
	13. CEO, POSOCO, B-9, Qutab Institutional Area, Katwaria Sarai New Delhi-110016

****

**DELHI TRANSCO LTD.**

(Regd. Office : Shakti Sadan, Kotla Road, New Delhi 110002)

**[Office of Dy. General Manager (SO)]**

SLDC Building, Minto Road, New Delhi – 110 002

Phone No.23221149, 23221175, Fax 23221012, 59

**AGENDA FOR 6th MEETING OF GRID CO-ORDINATION COMMITTEE**

**Time & Date of GCC meeting : 11.00 Hrs. on 08.05.2012**

 **Venue : Hotel Connaught, Connaught Place, New Delhi-110001.**

**1 Confirmation of the minutes of 5th meeting of GCC held on 25.10.2010.**

The minutes of the 5th meeting of GCC held on 25.10.2010 have been circulated vide letter no. F.DTL/207/2010-11/DGM(SO)/308 dt. 16.11.21010. No comments have been received so far.

**GCC is requested to confirm the minutes of the 5th meeting of GCC held on 25.10.2010.**

**FOLLOWUP ACTION ON THE DECISIONS TAKEN IN THE PREVIOUS GCC MEETINGS**

**2 Phasing out of Stage-I units of BTPS (95MW X 3).**

In the last meeting, BTPS was advised to approach PGCIL with the complete plan of generation addition and the probable commissioning schedule so that it can create the proper evacuation system for evacuation of power from the station.

In the meanwhile, NTPC has approached PGCIL for connectivity / long term open access for evacuation of addition of 1050MW CCGT as a replacement of Stage-I units of BTPS (95MW X 3). The connectivity issue was discussed in the Long Term Open Access meeting held along with 30th Standing Committee Meeting of Power System Planning of Northern Region of CEA held on 19.12.2011. The relevant portion of the Minutes of the Meeting is reproduced hereunder :-

**Item no. -14: Connectivity of new CCPP-I(1050MW) generation of M/s NTPC Limited at existing Badarpur Thermal Power Station, in Delhi.**

POWERGRID informed that NTPC Limited, had applied for connectivity of their new CCPP-I generation(1050MW) coming up in the existing premises of Badarpur Thermal Power Station in Delhi and as per application, connectivity is required by 2013-14. NTPC stated that they could not inform the firm commissioning schedule at present. Badarpur is an existing generating station of NTPC (Stage-I -3X95 MW, Stage-II -2X210 MW). Evacuation of power is at 220kV through five numbers of 220kV D/c lines. For the new CCPP-I generation (1050MW) of NTPC, the step up voltage of the generation is 400kV and nearest substation is existing 220kV Badarpur Thermal Stage-I generation switchyard. It was discussed that Delhi is already facing high short circuit levels. The situation is further aggravated by Right of Way constraint. Hence system studies would be carried out to analyze if the proposed generation can be evacuated with existing/under construction transmission system. Strengthening would be evolved in case of constraint under base case or contingency conditions. The study would be carried after finalizing the commissioning schedule and LTA application is received with requisite information.

NTPC informed that presently they had applied only for connectivity and the same may be granted. Long Term Access may be considered separately by CTU, once Long term Access application is made to CTU.

After discussion, connectivity was agreed by installing 1x315 MVA, 400/220kV ICT at Badarpur to connect proposed generation at 400kV with existing 220kV bus.

* A provision for 1X125 MVAR Reactor would be kept at Generating Station
* M/s NTPC may inform the schedule and apply for LTA
* All Conditions as applicable listed in Annexure –I would be applicable.

However, as per the information uploaded by CEA in their web site with regard to Availability of Gas for New Gas Based Power Plants on 19.03.2012 it is clearly indicated that no gas can be made available for new gas projects till 2015-16.

In the above scenario NTPC may update the status on the capacity addition at BTPS.

**3 FINALIZATION OF PROTECTION PLAN**

The protection plan has put up for approval in the 4th GCC meeting held on 06.11.2009 wherein it was advised that DTL should discuss the modified Protection Plan to be prepared incorporating the Protection Philosophy adopted by NRPC for the constituents in the Protection Sub committee meeting of DTL. Accordingly, the modified Protection Plan was discussed in the Protection Sub committee meeting held on 16.08.2011. The Protection which is required to be drawn out by DTL, being STU as per clause 16.3.2 of Delhi Grid Code has been finalized in the Protection Sub-Committee meeting held on 16.08.2011. The revised Protection Plan is placed at Annexure –I.

**GCC may approve.**

**4 FAULT LEVEL COMPUTATION AT DTL SUB-STATIONS.**

In the 5th GCC meeting, held on 25.10.2010 it was explained that the fault level computation is one of the references of protection audit undertaken by CPRI.

**G.M. (O&M), DTL may update the present status with regard to the study conducted by CPRI**

**5 INSTALLATION 2ND 66/11KV TRANSFORMER AT GAZIPUR SUB-STN.**

The issue was with regard to the sharing of cost of installation of the Transformer.

Now, DERC vide its order on petition no. 74/2008 with regard to erection, commissioning and testing of 66/11kV 20MVA Pr. Tr. along with associated equipments at South of Wazirabad 220kV S/Stn. mentioned that DTL and BYPL mutually agreed that DTL will retain the said Transformer and claim the expenditure incurred including carrying cost / interest viz-a-viz capitalization in its ARR.

To ensure the continuity of the supply, the second 66/11kV transformer is required at Gazipur 220kV S/Stn.

As per the settled dispute for the installation of the transformer at Wazirabad 220kV S/Stn. DTL, the expenditure of this transformer (at Gazipur) should also be claimed through ARR in capitalization of DTL

 **GCC May decide**

**6. PROVSIONS OF SPARE TRANSFORMER CAPACITY.**

In the last GCC meeting held on 25.10.2010 it was decided to have one spare transformation capacity at all level as hot reserve capacity at DTL’s S/Stn i.e. 400/220kV 315MVA, 220/66kV 160MVA Pr. Tr., 220/66kV 100MVA Pr. Tr., 220/33kV 100MVA Pr. Tr., 66/33kV 30MVA Pr. Tr., 66/11kV 20MVA Pr. Tr. & 33/11kV 20/16MVA Pr. Tr.. The State OCC Meeting is regularly monitoring the hot reserve position. The latest position is as under :-

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Voltage level | Present population in nos. | Status of the hot reserve |
| 1 | 440/220kV, 315MVA ICT, | 10 | One Tx at 400kV Mundka would be hot reserve. |
| 2 | 220/66kV, 160MVA Tx | 7 | 160MVA Tx earmerked for 220kV Pappan Kalan-II would be the hot reserve. |
| 3 | 220/66kV, 100MVA Tx | 42 |
| 4 | 220/33kV, 100MVA Tx, | 33 | New Tx. is required to be purchased for hot reserve for which procurement action shall be initiated shortly. Due to non availability of Hot Reserve, one 220/33kV Tx is not available since.............. |
| 5 | 66/33kV 30MVA Tx, | 3 | The 33kV level at Narela is being dedicated for AIR Khampur feeder. Howerver, as per the decision of the Standing Committee, the load is propsed to be transferred to IFSL S/Stn of NDPL. Thus, the existing Tx. would be hot reserve after the transfer of AIR Khampur load from Narela.  |
| 6 | 66/11kV 20MVA Tx | 23 | One 66/11kV 25MVA got repaired at Mehrauli would be hot reserve. |
| 7 | 33/11kV 20/16MVA Tx | 16 | At present, there is no hot reserve. DTL was advised to provide at least one Tx as hot reserve at the earliest. Due to non availability of Hot Reserve, 220kV Shalimar S/Stn is left with only 33/11kV Tx. since. |

**GCC May peruse.**

**7 Special Protection Scheme to take care of tripping of one ICT at 400kV Sub-Stations.**

As per the NRPC decision, DTL has to shed load through SPS at following 400kV S/Stns. at Bawana and Bamnauli to take care of the eventuality of tripping of any one of the ICTs. The installation of SPS at Mandola and Maharani Bagh is responsibility of PGCIL.

At Bawana, 220kV Najafgarh & Khanjawala Ckts. should be tripped affecting the load of 250MW to take care of tripping of one ICT.

At Bamnauli, 220kV Najafgarh Ckt. I & II & Naraina Ckt. I & II should be tripped to give the load relief of about 250MW to take care of tripping of one ICT.

As undertaken by DTL before NRPC the scheme should have been placed by 31.03.12.

**G.M. (O&M)-I, DTL may update the status**

**8 IMPLEMENTATION OF STATE – OF - THE – ART – LOAD MANAGEMENT SCHEME & UNDER FREQUENCY RELAYS BY DISCOMS**

The IEGC stipulates implementation of state of the art load management scheme to avoid lowering of frequency below 49.8Hz. CERC has been regularly monitoring implementation of the scheme. Delhi SLDC has undertaken that the scheme is in place at NDPL and BSES utilities. NDMC has undertaken that the scheme would be implemented by 31.03.2012 and based on their assurance the same was also intimated to CERC on an Affidavit by Delhi SLDC.

Delhi OCC has also been regularly monitoring the position.

Further, DERC vide its order dated 17.01.2012 **in petition no. 16/2008 in the matter of endangering the regional grid security by continuous violation of section 24.1–24.3 of Delhi Electricity Grid Code** has directed discoms to put under frequency relays in their respective areas of supply in service latest by 31.03.2012 and compliance of this direction of the commission should be reported latest by 07.04.2012. in the last OCC meeting held on 29.03.2012 the discoms intimated that the order of Delhi State Electricity Commission would be complied and copy of the report would be sent to SLDC and DTL in due course. Sofar, no report has been received from any of the Disoms.

**GCC May discuses.**

 **NEW ISSUES FOR DISCUSSIONS**

OPERATIONAL ISSUES

**9 POWER SUPPLY POSITION**

SLDC shall make the presentation on Power Supply and other related issues for Summer 2012.

**10** **CAPACITOR INSTALLATION PLAN**

Utility wise installed capacity of capacitors as on 31.03.2012 is as under :-

All figures in MVAR

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Utility  | Installed capacity  | Working capacity as on date | Additional capacity planned for summer | LT Capacitors | Remarks  |
| IPGCL | 20 | 10 | -- | -- |  |
| DTL | 754 | 694 | -- | -- |  |
| BYPL | 851 | 824 | 89.79 | 109 | Out of 89.79MVAR HT Capacitors, only 29.31MVAR have been approved by DERC, 60.48MVAR is under approval. |
| BRPL | 1185 | 1146 | 186.3 | 241 | 30.24MVAR (20.16MVAR at Vasant Kunj D Block and 10.08MVAR at DC Saket) dismantled by BRPL for paving the bays for 66kV and 33kV feeders to be energized before CWG 2010.  |
| NDPL | 719 | 719 | 21.76 | 119 | 21.76MVAR HT capacitors approved by DERC. |
| NDMC | 111 | 106 | 75 | 25 | HT Capacitors are likely to be commissioned by end of July 2012. |
| MES | 21 | 21 | -- | -- |  |
| **Total**  | **3662** | **3520** | **372.85** | **494** |  |

As per the Capacitor Study conducted by NRPC, the required installed capacity of the capacitors in Delhi system is as under :-

All figures in MVAR

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Capacity as on 31.03.2009 | Additional required for 2009-10 | Addition required for 2010-11 | Addition required for 11-12 | Addition required for 2012-13 |
| 3476 | 0 | 567 | 367 | 184 |
| Capacity required as on 31.03.2011 | 4043 |
| Capacity required as on 31.03.2012 | 4410 |
| Installed capacity as on 31.03.2013 | 4594 |
| Installed capacity as on 31.03.2012 on HT level | 3662 |
| Additional capacity requirement on HT level | 932 |

The capacity installation programme is continuously being monitored by NRPC at forum like OCC, TCC and NRPC level. Likewise in Delhi, the same is monitored by Delhi OCC on monthly meeting.

Delhi Discoms informed in these fora that the capacity addition in slow pace due to delay in getting clearance by them from DERC. DERC has given the direction to Discoms to plan the capacitors near loads i.e. at LT level. The capacitors installed at LT level are not considered as capacity addition by NRPC.

Further, DTL being STU has been advised by Delhi OCC to carry out the study, if required through CPRI for assessing actual requirement of Capacitors and finalizing the locations. Even after lapsing considerable time, Delhi OCC could not get the status of such studies.

**DTL’s Planning Department to update the status of the study to assess the actual requirement of capacitors and locations.**

**11 TRIPPING OF 220/66KV 160MVA TXS. INSTLLED AT PRAGATI SUB-STATION (EARLIER KNOWN AS IP EXT.)**

Two 20/66kV 160MVA Txs are installed at 220k Pragati Grid S/Stn (earlier known as IP Ext. S/Stn) of DTL. These transformers establish link of IPGCL’s GT Power Station (270MW capacity) with the Grid. After meeting the radial load at 66kV level namely (a) 66kV Vidyut Bhawan Ckt-I & II (b) 66kV School Lane Ckt-I & II (c) 66kV DMRC Ckt-I & II (d) 66kV Akshardham Ckt. the balance generation of the station is fed to the Grid through these transformers. Of late, it has been observed that these transformers trip due to faults even at in remote ends. The details of the trippings of the transformers are as under:-

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. No. | Outage Date | Outage Time | Restoration Date | Restoration Time | DURATION OFOUTAGE DUE TO BREAKDOWN/SHUTDOWN/TRIPPING | DURATION OF LOAD SHEDDING / GENERATION LOSS DURING OUTAGE | EFFECTIVE DURATION OF OUTAGE ATTRIBUTABLE TO DTL | Reason of Outage |
|   |   | **Hrs:Min** |   | **Hrs:Min** | **Hrs:Min** | **Hrs:Min** | **Hrs:Min** |   |
|   | (3) | (4) | (5) | (6) | (7)=(6)-(5) | (8) | (9)=(7)+(8) | (10) |
| **220/66KV,160 MVA TX-I (Commissioned on 29.12.2008 at 12.28hrs. in place of 100MVA Tx)** |
| 1 | 12.02.09 | 9:55 | 12.02.09 | 15:30 | 5:35 | 6:00 | 11:35 | TX. TRIPPED ON 30A, 86 |
| 2 | 17.02.09 | 22:18 | 18.02.09 | 2:35 | 4:17 | 13:16 | 17:33 | TX. TRIPPED ON DIFFERENTIAL, 86 |
| 3 | 18.02.09 | 4:46 | 18.02.09 | 17:50 | 13:04 |   | 13:04 | TX. TRIPPED ON DIFFERENTIAL, 86 |
| 4 | 05.05.09 | 15:20 | 05.05.09 | 17:45 | 2:25 |   | 2:25 | TX. TRIPPED ON BUCHOLTZ |
| 5 | 12.06.09 | 15:12 | 12.06.09 | 23:50 | 8:38 |   | 8:38 | TX TRIPPED ON 30D, 30C, 86 |
| 6 | 19.07.09 | 5:29 | 19.07.09 | 6:35 | 1:06 |   | 1:06 | TX. TRIPPED WITHOUT INDICATION DUE TO OPERATION OF BUS BAR PROTECTION ON 66KV BUS-I & II |
| 7 | 13.09.09 | 9:50 | 13.09.09 | 10:24 | 0:34 | 3:00 | 3:34 | TX. TRIPPED ON 95T, 86 |
| 8 | 17.09.09 | 10:54 | 17.09.09 | 11:30 | 0:36 |   | 0:36 | TX. TRIPPED ON 86 |
| 9 | 30.10.09 | 15:10 | 30.10.09 | 15:26 | 0:16 | 0:18 | 0:34 | TX. TRIPPED ON 86 |
| 10 | 05.02.10 | 15:56 | 05.02.10 | 16:06 | 0:10 | 0:43 | 0:53 | TX. TRIPPED ON 86 |
| 11 | 24.02.10 | 14:39 | 24.02.10 | 14:46 | 0:07 |   | 0:07 | TX. TRIPPED ON GTPS END |
| 12 | 29.03.10 | 2:59 | 29.03.10 | 13:15 | 10:16 |   | 10:16 | TX. TRIPPED ON 30F, 86. **Y-ф LEAD BEWTEEN CB TO CT & Y-Φ JUMPER OF AKHARDHAM FEEDER SNAPPED AT GT END** |
| 13 | 11.05.10 | 17:58 | 11.05.10 | 19:50 | 1:52 | 7:14 | 9:06 | TX. TRIPPED ON BUCHOLTZ, 86 |
| 14 | 05.07.10 | 7:23 | 05.07.10 | 8:40 | 1:17 |   | 1:17 | TX. TRIPPED ON buchholz, 86 |
| 15 | 08.07.10 | 14:53 | 08.07.10 | 19:25 | 4:32 | 4:33 | 9:05 | TX. TRIPPED ON buchholz, 86 |
| 16 | 20.07.10 | 15:07 | 20.07.10 | 19:10 | 4:03 | 2:28 | 6:31 | TX. TRIPPED ON 30D, OLTC, buchholz TRIP, 30E, 30A, 30B, 30C, 86, 195AC-BC-CC |
| 17 | 06.09.10 | 13:54 | 06.09.10 | 14:10 | 0:16 | 0:30 | 0:46 | I/C OF TX TRIPPED DUE TO OPERATION OF BUS DIFFERENTIAL |
| 18 | 16.09.10 | 15:11 | 16.09.10 | 15:35 | 0:24 | 4:46 | 5:10 | TX. TRIPPED ON 86 |
| 19 | 24.12.10 | 11:58 | 29.12.10 | 16:20 | 4:22 |   | 4:22 | TX. TRIPPED ON 86, INTER TRIPPING. TRIED AT 112:11HRS BUT AGAIN TRIPPED ON OLTC BUCHOLZ |
| 20 | 08.01.11 | 14:44 | 08.01.11 | 16:50 | 2:06 | 1:54 | 4:00 | TX. TRIPPED ON 86, 87 |
| 21 | 08.01.11 | 17:19 | 08.01.11 | 17:42 | 0:23 |   | 0:23 | TX. TRIPPED ON 30F, 86 |
| 22 | 08.01.11 | 21:09 | 08.01.11 | 21:52 | 0:43 |   | 0:43 | **TX. TRIPPED ON E/F, 86, REF LV SIDE. 66KV AKHARDHAM FEEDER TRIPPED ON E/F, O/C. ON TESTING FEEDER WAS FOUND HEALTHY** |
| 23 | 17.01.11 | 7:06 | 17.01.11 | 7:07 | 0:01 |   | 0:01 | TX. TRIPPED ON 86 |
| 24 | 23.01.11 | 11:10 | 23.01.11 | 11:42 | 0:32 |   | 0:32 | TX. TRIPPED ON 30A, 186 |
| 25 | 11.04.11 | 11:23 | 11.04.11 | 11:58 | 0:35 |   | 0:00 | TX. TRIPPED ON 86. IT IS REPORTED THAT THE TRIPPING OCCURRED DUE TO BLASTING OF CB OF STG-II OF GTPS |
| 26 | 12.05.11 | 20:40 | 13.05.11 | 12:49 | 16:09 |   | 16:09 | TX. TRIPPED ON 86, INTER TRIP |
| 27 | 13.05.11 | 13:40 | 13.05.11 | 16:38 | 2:58 |   | 2:58 | TX. TRIPPED ON INTER TRIPPING |
| 28 | 24.07.11 | 2:40 | 24.07.11 | 10:30 | 7:50 |   | 7:50 | TX. TRIPPED ON 86 |
| 29 | 04.03.12 | 23:11 | 04.03.11 | 23:23 | 0:12 |   | 0:12 | TX. TRIPPED ON OLTC, OIL TEMP HIGH, WINDING TEMP HIGH. GT ISLANDED AND SURVIVED. 66KV AKHAR DHAM CKT TRIPPED ON O/C WHICH CABLE WAS FAULTY |
| 30 | 09.02.12 | 11:33 | 09.02.12 | 11:43 | 0:10:00 |   | 0:10:00 | TX. TRIPPED ON 86 |
| **220/66KV,160 MVA TX-II (COMMISSIONED ON 18.09.2010 AT 16:32HRS. IN PLACE OF 100MVA TX.)** |
|  1 | 04.12.10 | 3:04 | 04.12.10 | 15:49 | 12:45 |   | 12:45 | TX. TRIPPED ON 87, 86 |
|  2 | 08.01.11 | 14:46 | 08.01.11 | 15:14 | 0:28 | 1:54 | 2:22 | TX. TRIPPED ON 86 |
|  3 | 08.01.11 | 17:19 | 08.01.11 | 19:10 | 1:51 |   | 1:51 | TX. TRIPPED ON 30F, 86 |
|  4 | 08.01.11 | 21:09 | 08.01.11 | 21:52 | 0:43 |   | 0:43 | TX. TRIPPED ON 87, 86 |
|  5 | 17.01.11 | 6:22 | 17.01.11 | 14:50 | 8:28 |   | 8:28 | TX. TRIPPED ON DIFFERENTIAL |
|  6 | 22.01.11 | 17:50 | 22.01.11 | 20:40 | 2:50 |   | 2:50 | TX. TRIPPED ON 87, 86 |
|  7 | 03.02.11 | 4:14 | 03.02.11 | 15:20 | 11:06 |   | 11:06 | TX. TRIPPED ON 86, REF LV SIDE |
|  8 | 06.02.11 | 15:53 | 06.02.11 | 20:50 | 4:57 |   | 4:57 | TX TRIPPED WITHOUT INDICATION |
|  9 | 07.02.11 | 20:49 | 08.02.11 | 1:35 | 4:50 |   | 4:50 | TX TRIPPED ON REF HV,LV, 86 |
|  10 | 19.02.11 | 11:37 | 19.02.11 | 12:30 | 0:53 |   | 0:53 | TX. TRIPPED ON REF, 86 |
|  11 | 22.02.11 | 7:58 | 22.02.11 | 16:49 | 8:51 |   | 8:51 | TX. TRIPPED ON 87, 86 |
|  12 | 11.04.11 | 11:23 | 11.04.11 | 11:59 | **0:36** |  | **0:00** | TX. TRIPPED ON 86. IT IS REPORTED THAT THE TRIPPING OCCURRED DUE TO BLASTING OF CB OF STG-II OF GTPS |
| 13  | 09.02.12 | 11:33 | 09.02.12 | 11:43 | 0:10:00 |   | 0:10:00 | TX. TRIPPED ON 86 |
| 14 | 04.03.12 | 23:11 | 04.03.11 | 23:23 | 0:12 |   | 0:12 | TX. TRIPPED ON OLTC, OIL TEMP HIGH, WINDING TEMP HIGH. GT ISLANDED AND SURVIVED. 66KV AKHAR DHAM CKT TRIPPED ON O/C WHICH CABLE WAS FAULTY |

The tripping of both transformers resulting the islanding of GT Station from the Grid and many time causing the tripping of all running GTs and thereby affecting the VVIP load and DMRC network. The recent one occurred on 04.04.2012 and 09.37hrs. A cable fault of 66kV School Lane Ckt-I of NDMC resulted the tripping of both transformers causing the loss of 200MW generation at GT and inter tripping of NDMC area and DMRC networks.

The trippings were analysed in an emergently convened Protection Sub-Committee meeting held on 04.04.2012. The cause of the trippings were attributed to the problem in control Cable network and Earthing at GT and remote ends stations like School Lane S/Stn of NDMC.

It was also observed that though the transformers are installed at Pragati Station (IP Ext), the control system is provided at GT Station about one kilometre away from the transformers. The control cables even pass under the Railway Tracks.

The Protection Sub-Committee observed that action should be taken immediately to provide control system near to the transformers to avoid such types of indiscriminate trippings due to control cable problems.

Some members of the Protection Sub-Committee were of the view that the Pragati S/Stn of DTL is the main link sub-station of about 600MW generation (270MW GT Station and 330MW Pragati Station) with Grid, the Pragati Station is the ex-bus sub-station of IPGCL / PPCL and hence should be maintained by the agency dealing the generating activities, for proper coordination of maintenance activities to ensure very essential 600MW generation at load centre having repercussion of electricity supply of VVIP and essential services.

**GCC may discuss.**

**12 STRATEGY TO MEET THE IMPLICATIONS OF CLOSING RPH STATION**

Due to the environmental stipulation, the State Government has decided to close down coal based generation at RPH. The closure of the station is deferred till 31.03.2013.

Delhi OCC has been discussing the issue for quite some time. The Delhi OCC in its meeting held on 25.01.2012 and 29.03.2012 has suggested the following measures to take care of closure of RPH Power Plant.

|  |  |
| --- | --- |
| **Recomendation** | **Status** |
| 1. DTL to consider the enhancement of transmission capacity than going for LILO of 220kV IP Extn (Pragati) – Sarita Vihar Ckt at 400kV Maharanibagh S/stn as the scheme has not been approved by CEA.
2. In the 1st phase the Transmission Line capacity should be enhanced in the section between 220Kv Wazirabad-Geeta Colony- Patparganj-IP-IP Extension (Pragti). This work must be completed before the on set of Summer of 2013.
3. In the 2nd phase the augmentation between 220kV Wazirabad-Mandola (four no of ckt.) and BTPS- Saritavihar (two no of ckt.) should be done.
 | Planning Deptt. of DTL to confirm the details of Scheme to take care of Generation loss at RPH being the Load Center Station. |
| 1. DTL to install one additional 220/66kV 100MVA Tx or enhance the present 2X100MVA capacity to 2x160MVA capacity at Gazipur to ensure more evacuation of power to take care of loss of generation at RPH in the event of its closure.
 | PR to be sent by Project Deptt. to Store Deptt. of DTL. Excpected by Dec.12. |
| 1. Early completion of 220kV Maharani Bagh- Gazipur ckt. by Construction Deptt. Of DTL.
 | Construction Deptt. Of DTL to confirm the status to OCC and work should be carried out as quickly as possible for stability of supply to East Delhi. |
| 1. SLDC to take up with the State Government for deferring the closing of the RPH till 31.03.2013 so that DTL can enhance the transmission capacity to take care of the generation loss of RPH by the time, otherwise continuous load shedding would be inevitable in Central and East Delhi areas during summer months.
 | It is understood that IPGCL has already initiated the step to continue the operation of Rajghat Power House till 31.03.2013.  |

220/33kV 100MVA Tx. has been commissinoed at RPH on 17.04.2012 at 16.10hrs. and load taken on 19.04.2012 at 13.10hrs.

In the Delhi OCC meeting held on 29.03.2012, Delhi OCC requested DTL to take suitable action so that a time lined startegy is implemented to meet the impending closure of RPH and requested that the above mention augmentation of Transmission Capacity be completed before the on set of next summer for ensuring the stable and realible supply to East,Central and NDMC areas of Delhi.

In addition to above, as a Long Term Measure, establishment of Second Source at RPH via 400kV East of Loni Road (Harsh Vihar) -Wazirabad – Kasmirigate – RPH should be done for stable supply to East,Central and NDMC areas of Delhi.

**GCC may discuss.**

**13 WORK OF REPLACEMENT OF PORECELAIN INSULATORS WITH POLYMER AND REPLACEMENT OF CONDUCTORS OF 220KV NARELA – ROHTAK ROAD TRANSMISSION LINES OWNED BY BBMB.**

TPDDL has put up the agenda. The matter has been monitored by Delhi OCC in its regular meetings. The brief history of the issue is given hereunder :-

 220kV sub-Station of Rohtak Road is of BBMB S/Stn

There are four 33kV incoming circuits from 220kV Rohtak Road to 33kV Rohtak Road S/Stn of TPDDL. The 220kV Rohtak Road S/Stn is fed through 220kV Ckts. from Narela S/Stn of DTL. These circuits are of GOAT Conductors and about 60 years old. The total capacity of the double circuit is 125MW. The conductors of the circuits are required to be replaced for enhancing the drawal capacity of Delhi system from Rohtak Road S/Stn. The replacement of existing porcelain disc insulators with porcelain insulators are also required to be carried out to avoid trippings in fog.

For maintaining the supply from Rohtak Road, the charges are being paid by Delhi Discoms BRPL, BYPL and TPDDL from 01.04.2007. Before that DESU/DVB / DTL was paying. The rates were fixed 1.25Lacs per months during the period 01.04.1987 to 31.03.1997. The same has been enhanced to Rs. 5.5 Lacs per month from 01.04.1997 to 30.09.2003 which was further increased to Rs.8.10Lacs per month from 01.10.2003. The increment was mainly to meet the requirement of augmentation of 220kV Narela – Rohtak Road lines and bus bars at Rohtak Road S/Stn. In the last OCC meeting also, it was indicated that the augmentation of the conductors would be carried out along with work of replacement of insulators. DERC is also hearing the matter of charges and enhancement of capacity in a petition no. 72/2008 filed by TPDDL.

**BBMB may update the status of enhancement of augmentation capacity particularly due to summer demand.**

**14 DATA DISCREPANCY BETWEEN ACTUAL DRAWAL OF TPDDL AND SCADA DATA OF SLDC.**

The agenda was put up by NDPL. As per Connectivity Regulations notified by CEA, IEGC and DGC, the required data provision to SLDC is the responsibility of Discoms and Generating Utilities.

In spite of protracted discussions, the same has not been done in the case of Discoms. Now, it has been decided that the Discom data is to be linked through ICCP Server to SLDC and Disoms’s data integration is envisaged to be implemented in the establishment of ULDC Phase-II. Till the establishment of real time data connectivity by the available facility of using RTUs / Transducers of ULDC Phase-I is being used to compute the actual drawal of Discoms. Since the real time data facility is available only upto 66kV (in some cases 33kV) level at present, the computation of actual drawal of Discoms may not be so accurate with that of actual drawal. The analysis shows that the variation is +10%. Once, the ICCP server integration is established, the variation would definitely be reduced considerably.

At present, the TPDDL’s actual load data on real time basis is computed as under :-

**POSITION AT 11.30HRS. ON 12.04.2012**

|  |
| --- |
| **DRAWAL CALCULATION OF NDPL** |
| **Station**  | **Feeder / transformer** | **MW** | **Station**  | **Feeder / transformer** | **MW** |
| Gopalpur  | EB\_T1 | 35.89 | Kashmiri Gate | 220kV DMRC-1 | 0.00 |
| EC\_T2 | 35.89 | 220kV DMRC-2 | 0.00 |
| EB\_T3 | 26.95 | B\_CIVILLN\_KGAT | 0.00 |
| Subzi Mandi | EB\_T1 | 39.54 | B\_CIVILLN\_KGAT | 0.00 |
| EB\_T2 | 24.80 | Rohtak Road | B\_RHTK\_RMPURA1 | 50.69 |
| Shalimar Bagh  | EB\_T1 | 38.87 | B\_RHTK\_RMPURA2 |
| EB\_T2 | 37.68 | B\_RHTK\_SH.W.BAGH1 |
| EB\_T3 | 45.72 | B\_RHTK\_SH.W.BAGH2 |
| 220kV DMRC | 7.30 | A\_RHTK\_24BLK MOTINGR |
| Narela  | EC\_T1 | 45.90 | A\_RHTK\_AMARPRK |
| EC\_T2 | 51.49 | Local Tr. |
| EC\_T3 | 26.47 | A\_I/D MOTINAGAR |
| Bawana  | EC\_ST2 | 67.16 | DSIDC | EC\_T2 | 3.05 |
| Kanjhawala  | EC\_T1 | 30.01 | EC\_T3 | 64.85 |
| EC\_T2 | 15.71 | B | 118.60 |
| Shastri Park  | Pusa Grid-I | 4.90 | EXPORT TO BSES YAMUNA |
| Pusa Grid-II | 5.00 | SUBZI MANDI | B\_BGROAD\_SUBZI1 | 0.00 |
| DMS | B\_DMC\_Pandav Nagar | 0.16 | B\_BGROAD\_SUBZI2 | 2.34 |
| Sudershan Park | A\_Vishal\_SUDRSN1 | -4.80 | EXPORT TO BSES RAJDHANI |
| Rewari Line  | 33kV Bus Coupler | 0.00 | MANGOLPURI (BOTH MTRS) | NANGLOI-1 | 12.00 |
| Tx-2 | 0.08 | NANGLOI-2 | 10.00 |
| Naraina | B\_NRINA\_REWAR1 | 10.54 |  | C | 24.34 |
| B\_NRINA\_REWAR2 | 9.24 | **TOTAL DRAWAL OF NDPL (A+B+C)** | **821.88** |
| B\_NRINA\_INDERPURI | 6.27 |
| BA\_T1 | 3.00 |
| BT\_T2 | 5.00 |
| Rohini | EC\_T1 | 43.63 |
| EC\_T2 | 44.53 |
| EC\_T3 | 36.71 |
| EC\_T4 | 33.58 |
| A | 727.62 | 727.62 |

In the above computation, 61MW load is taken as in total of all feeders given hereunder based on actual computation of SEMs :-

 **Fixed data**

|  |  |
| --- | --- |
| **Name of the Grid**  | **Name of feeders** |
| DMS | Shadikhampur |
| 69 MG Road |
| Breakfast  |
| Philips |
| Pandav Nagar  |
| `J’ Block Kirti Nagar  |
| `H’ Block Kirti Nagar  |
| BG Road | Sadar |
| CSA |
| DCM-II |
| MG Road |
| Moti Nagar-II |
| 53 Rama road |
| Breakfast  |
| Rama Road |
| Mundka | Mangolpuri T-Off Nangloi |
| 66kV Mangolpuri |
| Faiz Road | Tibbia College-I |
| Tibbia College-2 |
| Tibia Nanakpura |
| S.B. Mills | Philips |
| Moti Nagar |
| Shastri Park (Central) | Pusa Road Ckt-I |
| Pusa Road Ckt-II |
| Sudershan Park | Vishal |
| Rewari Line | Bus Coupler |
| Kashmiri Gate  | ISBT |
| 20MVA Tx. |
| 11kV Bus coupler  |
| Ghewra | LILO Mangolpuri – Nangloi |
| Vishal  | Bali Nagar |
| ESI |
| Ramesh Nagar  |
| Naraina | Local Tx-I |
| Gopalpur  | Local Tx-II |
| Narela  | Local Tx-I |
| Rohini  | Local Tx-I |
| Shalimar Bagh  | Local Tx |
| Kanjhawala | Local Tx-I |
| Subzi Mandi  | Local Tx-I |
| DSIDC Bawana  | Local Tx-I |
| Kanjhawala | 66kV DMR Mundka |
| Total  | 61MW (at 11.30hrs. on 12.04.2012) |

TPDDL may reconcile the data and suggest any improvement in the computation methodology to indicate actual load of TPDDL on real time basis with available infrastructure. It is also suggested that if any vast change in actual drawal, all utilities should interact the SCADA Circle of SLDC to correct the same with the usage of available infrastructure.

 **GCC may discuss.**

**15 GUIDELINES TO BE ISSUED BY STU (DTL) WITH REGARD TO INTRASTATE OPEN ACCESS IN DELHI.**

DERC vide its notification dated 3rd January 2006 fixed the terms and condition for Open access in Delhi. As per Clause 5(2) of the regulations the delivery of electricity for use by consumers with connected load of 1MW and above through open access route is fixed at 1st July 2008.

As per Clause 10(4) of the regulation, STU (DTL) has to draw out Procedure for implementation of Open Access. The relevant portion of the regulation is reproduced hereunder :-

1. **The Nodal Agency shall decide on the capacity available or the existence of operational constraints, consistent with the principles and guidelines as decided by the State Transmission Utility. The State Transmission Utility shall decide such principles within thirty days of publication of these Regulations.”**

Chairperson GCC constituted a Committee vide letter dt. 20.05.2011 comprising the representatives of distribution licences, generating station, DTL, SLDC & DERC to draw out guidelines for implementation of Intrastate Open Access in Delhi. The Committee met thrice to finalize the guidelines. The procedure is annexed as Annexure-2. The draft procedure were finalized considering the Open Access customers as embedded customers of the Distribution Licensees though they source power other than the concerned Distribution Licensees as they avail all infrastructure of the Distribution Licensee. The Distribution Licensees were of the view that they are not obliged to supply to the consumers whose connected load is 1 MW or more as per the latest Central Govt. Directions as such type of consumers are deemed open access consumers.

It was decided to place the procedure before the Commission for its consideration and approval. Accordingly the procedure was submitted to DERC for the consideration. The Procedure is placed at Annexure-2.

**This is for information of GCC and any suggestion is also appreciated.**

 **COMMERCIAL ISSUES.**

**14. FINALIZATION OF METERING PROCEDURES**

As per Clause 31.1 of Delhi Grid Code, STU has to draw out the Metering Procedure and get it approved from DERC before implementation.

The draft Metering Procedures drawn out based on the discussion held on 22.08.2008, at BTPS, 06.10.2008 & 10.10.2008 at SLDC was put up for approval in the second meeting of GCC held on 25.11.2008. However, the Metering Procedures were referred back to metering committee which had not considered the revised Metering Regulations of CEA. CEA vide their notification dt. 04.06.2010 amended the principal installation of Operation of Meters Regulations 2006 issued on 17.03.2006.

The Metering Committee in its 3rd meeting held on 15.06.2011 has approved the Metering Procedures for approving the same by GCC. The draft metering procedures is Annexed as Annexure-3

**GCC may approve the metering procedures so that the same can be forwarded to DERC for further approval and implementation**

**15 Incentive based on TRANSMISSION System availability of Delhi Transco LIMITED for 2010-11**

Multi Year Tariff (MYT) Transmission Regulations notified by DERC allows the Transmission utility to recover incentive if it achieves more than target availability fixed for its purpose. The details for the Transmission Tariff Regulations are extracted as under :

Clause 5.30 of the Multi Year Transmission Tariff Regulations 2007 applicable upto 31.03.2012, the incentive clause is specified as under :-

***“Operational Norms***

*5.30. The Commission shall specify suitable norms of operation for the Transmission Licensee in the Multi Year Tariff Order, based on the submission of the Business Plans. The parameter which shall be considered would cover, among others;*

*a) Transmission System Availability : The Target Availability for recovery of full annual transmission charges during the Control Period shall be 98%.*

***Incentive***

*The Transmission Licensee shall be entitled to incentive on achieving annual Availability beyond this Target Availability, in accordance with the following formula:*

*Incentive = ATSC \* [AA – TA]*

 *[TA]*

*Where ATSC is the Annual Transmission Service Charge corresponding to the assets of the Transmission Licensee;*

*TA is the as Target Transmission System Availability (in percent) as defined in Clause 5.3(a);*

*AA is the actual Annual Availability (in percent) of the transmission system of the Transmission Licensee;*

*Provided that no incentive shall be payable above the Availability of 99.75%”*

*5.31 Incentive shall be shared by the Beneficiaries in the ratio of their Allotted Transmission Capacity for the year.*

*Clause 5.3(a) of the transmission tariff regulations clarifies*

*“Transmission System Availability : The Target Availability for recovery of full annual transmission charges during the control period shall be 98%”*

The Transmission System availability of DTL for the year 2010-11 has been worked out by SLDC in consultation with the Stake holders and based on guide lines issued by DERC during January 2004 as under:

|  |
| --- |
| **AVAILABILITY OF DELHI TRANSCO LIMITED SYSTEM FOR THE YEAR 2010-11** |
| **Sl. No.** | **Name of Elements** | **Availability in %age** |
| 1 | AVAILABILITY OF 8NOS. 400kV, 315MVA ICTs | 94.46% |
| 2 | AVAILABILITY OF 10NOS. 400kV LINES | 99.57% |
| 3 | AVAILABILITY OF 72NOS. 220kV LINES | 99.19% |
| 4 | AVAILABILITY OF 49NOS. 220/66kV ICTs | 96.53% |
| 5 | AVAILABILITY OF 30NOS. 220/33kV ICTs  | 92.06% |
| 6 | AVAILABILITY OF 3NOS. 66/33kV ICTs  | 98.48% |
| 7 | AVAILABILITY OF 24NOS. 66/11kV PR. TXS  | 99.68% |
| 8 | AVAILABILITY OF 16NOS. 33/11kV PR. TXS  | 98.23% |
| 9 | AVAILABILITY OF 105NOS. 66kV FEEDER BAYs  | 99.90% |
| 10 | AVAILABILITY OF 119NOS. 33kV FEEDER BAYs  | 99.89% |
| 11 | AVAILABILITY OF 204NOS. 11kV SYSTEM | 100.00% |
| 12 | AVAILABILITY OF 59NOS. CAP. BANKS  | 93.04% |
|  |  |  |
| **TOTAL AVAILABILITY OF DTL SYSTEM =** |  |
| **94.46\*8+99.57\*10+99.19\*72+96.53\*49+92.06\*30+98.48\*3+99.68\*24+98.23\*16+99.90\*105+99.89\*119+100\*204+93.04\*59** |
| **8+10+72+49+30+3+24+16+105+119+204+59** |
|  | **= 98.98%** |  |

Based on the MYT Regulations, the Transmission Tariff approved for 2010-11 as per the order of the commission dt. 26.08.2011 are Rs. 532.94Crs. (refer page no. 68 table no. 54 of the order of the Commission)

(a) Annual Transmission Service Charges (ATSC) =Rs. 532.94Crores

for 2010-11

(b) The normative target availability for recovery of full =98%

 transmission tariff as mentioned in (a) in %

(c) Transmission System Availability achieved by DTL = 98.98%.

(d) Incentive =ATSC\* **[**AA – TA**]** = 532.94\***[**98.98-98.00**]** =**Rs. 5.3294000 Crore**

 **[**TA**]** **[**98.00**]**

In view of the above regulations and arrival of agreed transmission system availability for 2010-11 by the stake holders involved at SLDC level GCC may approve the incentive based on the system availability achieved by DTL for 2010-11 at **98.98%** and raising of bills on the beneficiaries. As per the Multi Year Transmission Regulations, the incentive earned by the Transmission Utility is to be borne by the beneficiaries in the ratio of Transmission capacity allocation. The Transmission capacity allocation for 2010-11 has been as under :

**Details of Transmission Capacity allocation for FY 2010-11**

**All figures are in %**

|  |  |
| --- | --- |
|  Month | Name of the beneficiaries  |
| BRPL | BYPL | NDPL | NDMC | MES | Total |
| Apr'10 | 41.25 | 26.30 | 25.51 | 5.97 | 0.98 | 100.00 |
| May'10 | 39.61 | 26.00 | 27.78 | 5.71 | 0.90 | 100.00 |
| June'10 | 38.75 | 26.09 | 28.13 | 6.04 | 0.99 | 100.00 |
| July'10 | 41.47 | 25.88 | 26.40 | 5.39 | 0.86 | 100.00 |
| Aug'10 | 41.25 | 26.30 | 25.51 | 5.97 | 0.98 | 100.00 |
| Sept'10 | 42.28 | 26.03 | 25.74 | 5.13 | 0.82 | 100.00 |
| Oct'10 | 41.37 | 24.99 | 26.97 | 5.74 | 0.93 | 100.00 |
| Nov'10 | 40.30 | 25.87 | 26.77 | 6.06 | 1.00 | 100.00 |
| Dec'10 | 40.28 | 25.80 | 26.84 | 6.08 | 1.00 | 100.00 |
| Jan'11 | 41.95 | 25.09 | 26.08 | 5.91 | 0.97 | 100.00 |
| Feb'11 | 40.30 | 25.86 | 26.75 | 6.09 | 1.00 | 100.00 |
| Mar'11 | 40.35 | 25.88 | 26.80 | 5.99 | 0.99 | 100.00 |
| **Total** | **40.76** | **25.84** | **26.61** | **5.84** | **0.95** | **100.00** |

Accordingly, to the incentive for 2010-11 has to be recovered from the Licensees as under :

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No. | Distribution Licensees | Capacity allocation for 2010-11 in % | Amount of Incentive to be recovered in Rs. Lacs |
| 1 | NDPL | 26.61 | 141.81533 |
| 2 | BRPL | 40.76 | 217.22634 |
| 3 | BYPL | 25.84 | 137.71170 |
| 4 | NDMC | 5.84 | 31.12370 |
| 5 | MES | 0.95 | 5.06293 |
|  | Total | 100.00 | 532.94000 |

**GCC may deliberate and approve.**

**16 DELHI STU CHARGES FOR OPEN ACCESS TRANSACTIONS FIR 2012-13.**

Clause no. 6.7 of the MYT regulations of DERC notified on 30.05.2007 valid for the period 01.04.2007 to 31.03.2012 stipulates the rates for STU charges of Delhi for short term open access transactions as under : -

6.7 In the case of Short Term Open Access Customers, charges payable shall be calculated in accordance to following methodology:

ST\_RATE = 0.25 x [ATSC/ Av\_CAP]/ 365;

Where:

ST\_RATE is the rate for short-term open access customer in Rs per MW per day;

ATSC is Annual Transmission Service Charge;

Av\_CAP means the average capacity in MW served by the transmission system of the Transmission Licensee in the last Financial Year and shall be the sum of the generating capacities connected to the transmission system and contracted capacities of other transactions handled by the system of the Transmission Licensee;

6.8 25% of the charges collected from the Short Term Open Access customer shall be retained by the Transmission Licensee and the balance 75% shall be adjusted towards reduction in the transmission service charges payable by the Beneficiaries.”

The MYT Regulation in respect of Transmission Tariff for the period 01.04.2012 to 31.03.2015, the STU Charges for Open Access is regulated as under :-

6.11 No distinction in charges shall exist in terms of long term, medium term or short term access to the intra-State Transmission System.

Provided that, the transactions for long term and medium term shall be denominated in Rs/kW/month or any suitable denomination as may be stipulated by the Commission.

6.12 For short term bilateral transactions and short term collective transactions through power exchanges, the transmission tariff shall be denominated in Rs/kWh/hr.

Since, no methodology has been devised for computation of STU Charges for open access transactions by the State Commission in the Transmission Tariff Regulation, as per the Central Electricity Regulatory Commission (Open Access in Interstate Transmission) Regulations 2008, the CTU Charges of NR would be made applicable from 01.04.2012. The relevant clauses of CERC Regulation (Open Access in Interstate Transmission) 2008 are appended hereunder:-

**Transmission Charges**

16(1) In case of bilateral transactions, for use of the inter-State transmission system, the transmission charges at the rate specified hereunder shall be payable by the applicant for the energy approved for transmission at the point(s) of injection:

Type of Transaction Transmission charges (Total) (Rs./MWh)

(a) Bilateral, intra-regional 30

(b) Bilateral, between adjacent regions 60

(c) Bilateral, wheeling through one or more 90

intervening regions

(2) In case of the collective transaction, for use of the inter-State transmission system, transmission charges at the rate of Rs.30/MWh for energy approved for transmission for each point of injection and for each point of drawal shall be payable.

(3) The intra-State entities shall additionally pay transmission charges for use of the State network as determined by the respective State Commission:

**Provided that in case the State Commission has not determined the transmission charges, the same shall not be a ground for denial of open access and charges for use of respective State network shall be payable for the energy approved at the rate of Rs.30/MWh:**

**Provided further that transmission charges for use of the State network shall be intimated to the Regional Load Despatch Centre concerned for display on its web site:**

**Provided also that transmission charges shall not be revised with retrospective effect.**

Now, from 01.07.2011, Point of Connection (PoC) charges are enforced for CTU Charges. CERC vide order dated 31.03.2012 has determined the PoC Charges of Delhi for injection and withdrawal as Rs.80000/MW/month for long term and 11Ps/Unit for short term transactions for the period April 2012 to September 2012.

Since, there is no methodology to compute the STU Charges of Delhi for Open Access purpose from 01.04.2012 has been specified by DERC, all RLDCs and Power Exchanges have been requested to apply the STU charges of Delhi as 11Ps / kWh i.e. Rs. 110/MWh for the open access transactions starting from 01.04.2012 whose applications are received on or after 01.04.2012, in line with the CERC order 31.03.2012.

However, NLDC has indicated that there is an amendment of Open Access Regulations in 2009 wherein it is mentioned that in case, no charges are fixed by State Electricity Regulatory Commissions for STU usages for Open Access purposes, the charges would be Rs. 80/MWh. Accordingly, from 2012-13, the STU Charges for Open Access in respect of Delhi is fixed at Rs. 80/MWh. The relevant clause of CERC Regulations is reproduced hereunder :-

**10. Amendment of regulation 16 -** Regulation 16 of the principal regulations shall be substituted as under, namely-

**“Transmission Charges**

16. (1) In case of bilateral transactions, the transmission charges at the rate specified hereunder shall be payable by the short-term customer for the energy approved for transmission at the point or points of injection:

Type of Transaction Transmission charges(Total) (Rs./MWh)

(a) Bilateral, intra-regional 80

(b) Bilateral, between adjacent regions 160

(c) Bilateral, wheeling through one or more 240

intervening regions

(2) In case of the collective transactions, transmission charges at the rate of Rs. 100/MWh for energy approved for transmission separately for each point of injection and for each point of drawal, shall be payable.

(3) The intra-State entities shall pay the transmission charges for use of the State network as fixed by the respective State Commission in addition to the charges specified under clauses (1) and (2):

Provided that in case the State Commission has not determined the transmission charges, the charges for use of respective State network shall be payable at the rate of Rs.80/MWh for the electricity transmitted:

Provided further that non-fixation of the transmission charges by the State Commission for use of the State network shall not be a ground for refusal of open access:

Provided also that the transmission charges payable for use of the State network shall be conveyed to the Regional Load Despatch Centre concerned who shall display these rates on its web site:

Provided also that the transmission charges payable for use of the State network shall not be revised retrospectively.”

**This for the information of GCC.**

17 **Scheduling and associated issues of 16MW Generating Unit of Timapur – Okhla Waste Management Company Pvt Ltd, Okhla Plant.**

A 16MW Power Plant has been established by a generating company namely Timarpur- Okhla Waste Management Company Pvt Ltd (TOWMCL) at Okhla. The generation of the plant is delivered at 33kV bus of 66kV Jasola S/Stn of BRPL. 50% of the generation (60MUs per year) is available for sale to BRPL at a rate arrived through competitive bid. The balance power can be sold to third party by the generating company through Open Access route. On the request of both parties, BRPL & TOWMCL, two coordination meeting were held at – one at SLDC and other at Plant site (Okhla). The gist of the discussions and decisions taken in the meetings are as under:-

i) There are three boilers out of which the two boilers are commissioned. The third boiler is expected to be commissioned by this month end. After the commissioning of the third boiler, the station would be declared as under commercial operation. The station is delivering infirm power from 27.01.2012. In the first meeting held on 10.02.2012 at SLDC, it was decided to treat the generation injection at Jasola S/Stn by the generating plant would be treated at Infirm power and charged at UI Rate. In the meeting held on 03.04.2012, it was decided that payment of ‘infirm power’ would be adjusted with BRPL as the power is consumed by them.

ii) After commissioning the unit in commercial operation, the transaction would be as per PPA. As per PPA, BRPL should facilitate the transaction of power more than 50% of the generation for sale to third party by the company. Both parties were advised for arriving the agreement for transaction of the power consumed by BRPL for more than 50% of quantum. Since, both parties could not find any amicable solution, they were given 15 days time failing which the meeting held on 03.04.2012 at Okhla Plant and decided the following methodology:-

TOWMCL can sale the power to third party of 50% of the capacity after meeting the auxiliary requirement i.e. 6.24MW on day ahead basis after the COD of the station. This power could be traded by the generating company through open access. Once the power is sold through open access route, UI needs to be applied for mismatched energy of TOWMCL power. To meet the criteria of Must Run, the schedule for open access could be fixed on the basis of 50% of the actual generation converting into 15 minutes time block and match with scheduled quantum for open access and UI would be made applicable for the mismatched quantum as per the UI regulations.

Such mismatch and corresponding UI amount could be deducted from the billed amount for 50% generation to BRPL as per the PPA at a settled rate, on monthly basis. The proposed methodology is on the basis of the fact that the generator is located in the BRPL’s controlled area and the entire generation of the power station is consumed locally by the utility. Any variation of generation gets automatically affected the BRPL’s drawal from the grid and imposition of corresponding UI which is proposed to be adjusted in the bill of the generator.

In case the generator goes for open access for the sale of 50% quantum available with it the following charges are required to be paid by the generator who is obviously being the applicant for the sale of energy.

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No.  | Component of Open Access  | Charges (Rs.) | Remarks  |
| 1 | Application Charges  | 5000 per application | If the sale is to the intrastate utilities within Delhi to be paid to SLDC. For the purpose of interstate transactions the same would also be given to SLDC for consent of the such transactions.  |
| 2 | Scheduling charges for SLDC, Delhi | 2000 per day  | If the sale is to the intrastate utilities within Delhi to be paid to SLDC within three days after the approval of the open access on monthly basis. For the purpose of interstate transactions the same would be charges by the nodal RLDC and reimburse the same to SLDC Delhi.  |
| 3 | STU Charges of Delhi | 110 per MWh | If the sale is to the intrastate utilities within Delhi to be paid to SLDC within three days after the approval of the open access to Delhi SLDC. SLDC shall reimburse the same to DTL on monthly basis after the receipt of the amount. For the purpose of interstate transactions the same would be charges by the nodal RLDC and reimburse the same to SLDC Delhi/ DTL.  |
| 4 | Wheeling charges  | 31.1 per MWh | To be paid directly to BRPL within 3 days after the approval of the open access. The rate is based on the retail tariff order of DERC dt. 26.08.2011 for BRPL for the FY 2011-12 and continue the same till the change based on the order for FY 2012-13.  |
| 5 | CTU charges  | 110 per MWh (only for Delhi injection)  | Applicable for interstate transaction only. The drawal charges would be as per the drawal point. The collection and disbursement lies within the responsibility of nodal RLDCs.  |
| 6 | Cross subsidy charges  | Nil  | Being the generator  |
| 7 | Additional surcharge  | Nil  | Being the generator  |
| 8 | Losses (in form of kind) |  |  |
| (i) | STU losses of Delhi  | 1.25% |  |
| (ii) | Wheeling losses (BRPL) | 1.40% |  |
| (iii) | CTU losses (for Delhi injection) | 2%  | Varies on weekly basis |
| (iv) | CTU Drawal losses  | 1.53% -4.3% | Varies on weekly basis and on drawal point  |
| (v) | Other state losses  | Depend upon the drawal point |

In case the generator could not get any buyer for the 50% capacity allowed for sale to the third party that quantum would obviously be treated as a transaction under UI and same would be adjusted on monthly basis based on the accounts prepared by SLDC based on the meter readings to be provided by STU i.e. DTL for computing actual Ex-bus generation (received at 33kV side of Jasola 66kV S/stn of BRPL).

iii) TOWMCL was advised to get the generating plant registered with Delhi SLDC as per provision of Clause 3(2) of DERC (Levy and Collection of Fee & Charges of SLDC) Regulations dated 18.10.2007.

iv) The charges for using auxiliary needs of the stations after the synchronization i.e. 11.16hrs on 27.01.2012 would be charged at UI rate of 15 minutes if the drawal data is provided by company to DTL’s Metering Department for incorporating the drawal and injection for the power plant for preparation of applying UI rate in 15 minutes time block. This was the same methodology adopted in case of Bawana CCGT.

v) The real time generation data would be provided by the Station to SLDC. Though a method worked out with SLDC without jeopardising the existing data system.

BRPL vide their letter dated 16.04.2012 has indicated that they are not agreeable to the decision of the above said meeting. However, as per the decision of the meeting, TOWMCL has registered as a ‘USER’ with Delhi SLDC on 19.04.2012. Delhi SLDC has issued bills for infirm power for January 2012 and February 2012 on 20.04.2012. As per the decision of the meeting held on 03.04.2012, BRPL has to settle the payment as per the accounts issued by SLDC for infirm power.

**GCC may discuss.**

**18 PAYMENT OF NRLDC CHARGES – PENALY BILL RAISED BYNRLDC FOR THE PERIOD OCTOBER 2010 TO FEBRUARY 2011.**

CERC vide notification dated 18.09.2009 notified RLDC Fees and Charges Regulations. CERC vide order dated 11.03.2011 fixed the NRLDC Charges for the period 01.10.2010 (from the date of creation of Power System Operation Corporation as a subsidiary company of PGCIL) to 31.03.2014. The relevant portion of regulations stipulating SLDC can be a nodal agency for collection and disbursal of RLDC Fees and Charges are reproduced hereunder :-

***22. Collection of SOC****.-*

*(1) The System operation charges shall be collected from the users as per the norms given below:-*

*(i) Inter state transmission licensees: 10% of system operation charges;*

*(ii) Generating stations and sellers: 45% of system operation charges;*

*(iii) Distribution licensees and buyers: 45% of system operation*

*charges.*

*(2) The system operation charges shall be levied on the inter state transmission licensees on the basis of the ckt.-km of the lines owned by them as on the last day of the month prior to billing of the month.*

*(3) The system operation charges from the generating companies and sellers shall be collected in proportion to their installed capacity or contracted capacity, as the case may be, as on the last day of the month prior to billing of the month.*

*(4) The system operation charges from distribution licensees and buyers shall be collected in proportion to the sum of their allocations and contracted capacities, as the case may be, as on the last day of the month prior to billing of the month.*

*Provided that the respective State Load Despatch Centre shall be the nodal agency for this purpose in the State if the concerned Regional Load Despatch Centre, State Load Despatch Centre and the distribution licensees arrives at a mutual consensus to do so. The respective State Load Despatch Centre shall collect the system operation charges from the distribution licensees within a state on behalf of the concerned Regional Load dispatch Centre and the same shall be deposited to the concerned Regional Load Despatch Centre.*

 ***(emphasis supplied)***

***23. Collection of Market Operation Charges***

*The market operation charges shall be collected equally from all the users except inter state transmission licensees:*

*Provided that the respective State Load Despatch Centre shall be the nodal agency for this purpose in the State if the concerned Regional Load Despatch Centre, State Load Despatch Centre and the distribution licensees arrives at a mutual consensus to do so. The respective State Load Despatch Centre shall collect the market operation charges from the distribution licensees within a state on behalf of the concerned Regional Load dispatch Centre and the same shall be deposited to the concerned Regional Load Despatch Centre.*

***(emphasis supplied)***

Based on the above stipulation, a meeting was convened in SLDC on 27.04.2010 wherein all Distribution Licensee were present and authorized SLDC to get it registered with NRLDC on behalf of Discoms and SLDC has been authorized to collect the amount towards NRLDC Charges and disburse the same to NRLDC. The first bill was raised by NRLDC for the period October 2010 to February 2011 on 23.03.2011.

However, in the meeting held on 05.04.2011 under the Chairmanship of Director (Operations), DTL, it was decided to settle the bills of March 2011 onwards by SLDC Delhi and upto Feb. 2011, the bill are required to pay PGCIL / NRLDC directly with Discoms as PGCIL was settling all the bills including NRLDC Charges with Discoms.

The matter was discussed in 20th Commercial Sub-Committee of NRPC meeting held on 24.08.2011 at Jaipur wherein details of credits given by Powergrid to Distribution Companies for the period October 2010 to February 2011 as Powergrid was settling the RLDC Charges till February 2011 to settle the bills for the period October 2010 to February 2011 on the request of NRLDC that these bills may also be settled by SLDC.

The matter was discussed in the 11th meeting of Delhi Commercial Sub-Committee held on 18.10.2010 wherein the issue of the payment for October 2010 to February 2011 was discussed and all Delhi Discoms assured that they would release the charges of NRLDC Fee and Charges for the period October 2010 to February 2011 by 04.11.2011 i.e. 58th day of issue of statement by SLDC on the basis of the receipt of the bill from NRLDC with the intimation of credit of Powergrid to Distribution Companies already done for the period October 2010 to February 2011, received on 07.09.2011 from NRLDC. Accordingly, payment was collected and disbursed to NRLDC by Delhi SLDC. Hence, no surcharge is liable to be paid by Delhi SLDC for the payment pertains to the period October 2010 to February 2011.

NRLDC vide letter dated 01.03.2012 again included the surcharge for the period October 2010 to March 2011 amounting Rs. 1874231/- along with the bill of February 2012. However, bills for February 2012 were forwarded to Distribution Companies for payment, copy of which was endorsed to GM, NRLDC stating that the surcharges payment is not acceptable to Delhi SLDC for the period October 2010 to February 2011.

It may also be noted that with regard to NRLDC Charges, SLDC is only a collecting and disbursing agency based on the agreement reached with SLDC and Delhi Discoms and NRLDC. SLDC can not take any responsibility for non payment of any Discom (s) except reporting the matter to NRLDC and other Regularity Authorities. NRLDC has to withdraw late payment surcharge bill for the period October 2010 to February 2011 failing which SLDC has no other option but to advise NRLDC to raise the bill directly on Discoms based on the allocation mentioned by SLDC because as per the regulations, SLDC is not bound to act as a Collection and Disbursing agency for these charges, if SLDC is agreeable to act as a Collection and Disbursing Agency.

It may also be noted that the PGCIL is directly raising the bills of Transmission Charges from Discoms in PoC regime also. In the present regime of NRLDC Charges, Discoms do the TDS on the bills raised by SLDC and thereafter, SLDC also does the TDS for making payment to NRLDC. Thus, a total 21% TDS is done in this case. If NRLDC does the collection directly from Discoms, these double deductions of TDS could be foregone. This was also brought to the notice vide SLDC’s letter dated 24.06.2011 to NRLDC till date no reply has been received.

**GCC may discuss and decide.**

**19 THE STATUS OF INTRASTATE UI POOL ACCOUNT**

As per order of DERC dated 31.03.2007, Intrastate ABT has been introduced in Delhi. SLDC is the Nodal Agency for collection and disbursal of UI amount in Delhi. As per the Intrastate UI Account, there is a substantial amount is left as outstanding. Certain Intrastate Utilities are also defaulting the UI payment. The latest position of UI Pool outstanding is as under :-

|  |  |  |
| --- | --- | --- |
| Utility  | Amount in Rs. Crores payable (-) upto 47th Week of 2011-12 / receivable (+) | Amount receivable from NRLDC pool account by Delhi as a whole in Rs. Crores (upto 51th Week)/2011-12 |
| IPGCL | 1.78 | **271.21** |
| PPCL | 18.70 |
| NTPC | 5.77 |
| BYPL | 43.62 |
| BRPL | (-)37.69 |
| NDPL | 85.88 |
| NDMC | 44.80 |
| MES | 5.10 |
| **Total**  | **167.96** |

In addition of above, there is about Rs. 150 Crores in Intrastate UI Account in line with Interstate UI Account. The reasons for balance in Intrastate UI Account are due to following reasons:-

a) From 01.04.2007 to 06.01.2008, the Account was zero balance account i.e. receivable to the account was equal to the payable from the Account.

b) From 07.01.2008, CERC introduced UI Cap to Generating Stations as per CERC Regulation dated 28.12.2007, Generating Stations UI have been capped 406Ps/kWh when actual exceeds the scheduled generation in case of Generation Stations with Coal and Lignite Firing Stations and Stations burning only APM Gas.

Due to the Cap, the UI Account become non zero balance Account and some amount is left out from the payable and receivable amount by Generators and Discoms.

c) From 01.04.2009, CERC has come up with comprehensive regulation introducing additional UI Charges on over drawing Discoms under low frequency conditions and under generation stations i.e. frequency below 49.2Hz (40% additional UI Charges at frequency below 49.2Hz.) in addition to the Generation Cap mentioned at point (b) above.

d) From 03.05.2010, the Additional UI Charges has been as under :-

|  |  |
| --- | --- |
| Frequency below  | Rate  |
| 49.5Hz. | 40% of additional UI charges at 49.5Hz frequency rate i.e. 873Ps/Unit  |
| 49.2Hz. | 100% additional UI Charges at 49.5Hz frequency charges i.e. 100% of 873Ps/Unit |

In addition to this, UI rate is also capped at 403Ps/unit for under drawal in excess of 10% of schedule of 250MW whichever is less.

e) DERC vide order dated 21.04.2009 and 03.08.2010 implemented the revised UI Regulations adopted by CERC implemented in Delhi.

f) Due to the above UI Cap imposed on Generators from 07.01.2008 and Additional UI charges imposed on Discoms and Generating Stations from 01.04.2009, the UI receivable becomes less than payable, leaving the balance available funds in UI Pool Account being operated by SLDC.

As on 31.03.2012, about Rs.150 Crores is left as UI Pool balance and the amount is kept as Fixed Deposit for certain term and the accrued interest is also kept in the scheme.

 It may also be noted that from 02.04.2012, the UI Regulations have been revised by CERC.

As per the new Regulations, 20% penalty corresponding to the frequency based UI rate for over drawal below frequency 49.7Hz, 40% penalty of maximum of UI rate of Rs.9/Unit for over drawal upto 49.2Hz and 100% penalty at the rate of 900Ps/unit for over drawal below 49.2Hz.

The Cap rate is also fixed at 450Ps/Unit for under drawal in excess of 10% of schedule or 250MW whichever is less.

Generating stations, UI cap rate is 165Ps/unit for injection by generating station except Hydro in access of 105% of the DC in a time block or in access of 101% DC on average on a day.

The cap rate for infirm power injected to the Grid by a unit or a generation station during testing / commissioning prior to CoD of shall be as follows :-

Domestic Coal / Lignite / Hydro : Rs. 1.65 / kWh

APM Gas as fuel : Rs. 2.60 / kWh

Imported Coal / RLNG : Rs. 3.30 / kWh

Liquid Fuel : Rs. 9.00 /kWh

 Decision of utilization of fund is to be taken by DERC.

SLDC has already mooted the proposal for incurring the amount needed for establishing New SLDC from the fund so that the consumers of Delhi won’t be burdened with the cost.

**20 Non payment of Energy Bills of IPGCL / PPCL by BYPL and BRPL since October, 2010 (agenda by IPGCL / PPCL).**

Since the re-assignment of the PPA signed with DTL, energy is being billed by IPGCL and PPCL to all the Distribution Companies as per the Energy Account issued by the State Load Dispatch Centre, Delhi (SLDC) and the payments for the bills raised were being realized within the stipulated period in the past, as per the PPA/ Regulations issued by the DERC.

However, payments are not being released in full by BRPL and BYPL from the month of October 2010. The details of which are as under:

1. **Indraprastha Power Generation Company Limited**

Summary of outstanding dues as on 09-04-2012 (Fig. in Cr.}

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Discom | Outstanding Balance as on 31.03.2011 | Billing since 01.04.2011 | Payment received since 01.04.2011 | Surcharge up to 15.03.2012 | Total  |
| BRPL | 107.99 | 398.81 | 185.67 | 31.78 | 352.90 |
| BYPL | 66.45 | 266.78 | 89.66 | 21.76 | 265.33 |
| Total | 174.45 | 665.58 | 275.33 | 53.54 | 618.23 |

1. **Pragati Power Corporation Ltd.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Discom | Outstanding Balance as on 31.03.2011 | Billing since 01.04.2011 | Payment received since 01.04.2011 | Surcharge up to 15.03.2012 | Total  |
| BRPL | 84.58 | 297.04 | 162.07 | 23.51 | 243.06 |
| BYPL | 63.26 | 199.07 | 79.33 | 18.39 | 201.39 |
| Total | 147.85 | 496.11 | 241.40 | 41.90 | 444.45 |
| **Grand Total** | **322.29** | **1161.69** | **516.73** | **95.44** | **1062.69** |

Members of the committee are requested to deliberate the issue and impress upon BYPL and BRPL to make the payment of outstanding dues with applicable surcharge at the earliest. Now, IPGCL & PPCL are required to pay fuel and establishment expenditure on regular basis. Presently, all credit sources of borrowings have been utilized and loan re-payments are overdue now.

**21. Opening of LC for Bulk Power Supply to BRPL and BYPL by IPGCL and PPCL Power stations (Agenda by IPGCL / PPCL).**

Various correspondences have been made by IPGCL and PPCL in respect of opening of LC for securing Bulk Power Supply. However, BRPL and BYPL inspite of number of reminders have not established LC in respect of IPGCL and PPCL since April, 2011.

The members of Committee are requested to deliberate the issue and impress upon BYPL and BRPL to establish the LCs of appropriate amount without any further delay.

**22 Signing of Supplementary PPA for power supply from the existing stations of IPGCL & PPCL (Agenda by IPGCL / PPCL).**

Power Purchase Agreement (PPA) between IPGCL and Delhi Transco Limited (DTL) executed on 30.03.2007 was re-assigned in favour of DISCOMS by the Delhi Electricity Regulatory Commission (DERC) vide their order dated 31.03.2007. Supplementary PPA has already been signed with NDPL and NDMC. However, supplementary PPAs are yet to be executed with the BYPL and BRPL. Draft PPA was forwarded to BYPL and BRPL in the 1st week of December 2010.However inspite of number of reminders, BYPL and BRPL have not been signed the agreements without any apparent reasons.

**The members of Committee are requested to deliberate the issue and impress upon BYPL and BRPL to sign the supplementary PPA without any further delay.**

**23. Signing of Power Purchase Agreement for 1371MW Pragati-III Combined Cycle Gas Power Plant at Bawana, Delhi by Military Engineering services(MES) (Agenda by IPGCL / PPCL).**

Power Purchase Agreement between Military Engineering Services and PPCL for MES share from 1371MW Pragati-III Combined Cycle Gas Power Plant at Bawana, Delhi has not been executed. Inspite of the repeated follow-ups, an unreasonable delay has been occurring in signing the PPA by MES. The commercial operation of the unit/block of the station has already been commenced.

The members of Committee are requested to deliberate the issue and impress upon MES to get signed the PPA without further delay.

**24 Payment for supply of power from 1371MW Pragati-III Combined Cycle Gas Power Plant, Bawana, Delhi by MES (Agenda by IPGCL / PPCL).**

Payments are not being made by Military Engineering Services for supply of power from 1371MW Pragati-III Combined Cycle Gas Power Plant. The power from the project has been scheduled to MES by SLDC, Delhi as per the allocation of power made by Govt. of NCT of Delhi. MES has not yet made the payment of Rs. 90, 19,790/- for the invoice raised by PPCL for the energy supplied during the month of December 2011 and January 2012. MES is also required to pay the applicable surcharge up to date of payment as per the clause no. 35 ‘Late Payment Surcharge’ of CERC (Terms and Conditions of Tariff) Regulations, 2009.

**Members of sub-Committee are requested to deliberate the issue and impress upon MES to make the payment with applicable surcharge at the earliest.**

**25 HOSTING OF NEXT MEETING OF GCC**

**ANNEXURE-1**

DELHI TRANSCO LIMITED

PROTECTION PLAN–2012

**DELHI TRANSCO LTD.**

PROTECTION PLAN

Dated …………………

In compliance to the provisions contained in Delhi Grid code (DGC) Clause No.16.3.2 notified by Delhi Electricity Regulatory Commission (DERC) on official Gazette of Delhi on 22.04.2008. Delhi Transco Ltd. (DTL) being notified as State Transmission Utility in Delhi State makes following Protection Plan for operation of Delhi Power System.

# Protection Requirements and Co-ordination

**1.0 General Principles**

No item of electrical equipment shall be allowed to remain connected to the transmission System unless it is covered by appropriate protection aimed at reliability selectivity, speed, discrimination and sensitivity, Guidelines mentioned in protection manuals of CBI & P shall be kept in view.

Protection standards are treated as interface issues because of the possible severe cross-boundary repercussions of faults that occur in the system of any entity. Minimum protection requirements are prescribed in the Section because inadequate protection or mal-operation of protection system of one entity may result in far reaching consequences, disturbances and even damages in the systems of other entities.

All users shall co-operate to ensure correct and appropriate settings of protection to achieve effective, discriminatory removal of faulted equipment.

The protection system to be installed (or kept in service) at various Generating Stations, Grids Sub-stations with DTL, S/Stns. with Distribution Licensees shall not be inferior to already in vogue. The Stakeholders shall update the protection system as technology advances worldwide.

Protection settings shall not be altered without consulting and informing all affected users. No protection should be by-passed or disconnected without the agreement of the affected user. When protection is by passed and/or disconnected by agreement, then the cause must be rectified and the protection restored to normal condition as quickly as possible. If agreement has not been reached the electrical equipment shall be removed from service forthwith. Even when protection is temporarily by passed by agreement, a standby protection or back-up protection system shall be operational during the period.

DTL shall have two functions to perform in respect to protection of power system in Delhi.

1. Protection coordination with Northern Region Power System that is coordination of relays in 400/220kv system including interstate line. This system is monitored by NRPC Protection System Committee.
2. Coordination of protection system of DISCOM’s and GENCO connected to DTL EHV sub-station in the following manner.
3. **Co-ordination of Protection system**
	* + - 1. **2.1 With NRPC**

For and any third party, each end will set its relay as per general practice of relay setting and the protection on either end shall be mutually agreed and setting provided. A set of relay coordination setting shall be forwarded to NRPC for their study, reference and record. Any setting change as proposed by NRPC protection committee shall be implemented after due consideration.

**2.2 With Distribution Licensees and Generation**

When new equipment (including generating units) and lines are planned to be constructed the proposed protections and settings (which shall be in accordance with standards in vogue) shall be communicated to STU. The protection systems shall be installed as per provisions of new connection or modification by users after concurrence of STU. Commissioning of new equipment/lines may necessitate modifications of existing protections or revision of relay settings coordinated in consultation with DTL as STU.

**3.0 Protection Requirements**

 **3.1 400 – 220KV Lines:**

Main. I shall be numerical with minimum three zone distance protection with built in Fault Locator, Disturbance Recorder & Event Loggers and Communicable, with IEC61850 compliant Main. II Protection shall be again numerical, IEC 61850 compliant Distance Protection or line current differential with IEC 61850 compliant.

Necessary indications, alarms and controls shall be provided for Line CVT supply failure and for ensuring change over to Bus No.1 PT to Bus No.2 PT and vice versa when Bus Transfer is made.

**Norms for Protection of 400/220KV lines.**

|  |  |  |
| --- | --- | --- |
| **S.N.** | **Voltage** | **Protection Scheme** |
| 1 | 400kV lines | Main-1& 2: will be numerical, communicable IEC 61850 compliant distance protection scheme with built in Fault Locator, Disturbance Recorder and Event Loggers of scheme as per nation policy or Main–2 numerical line current differential with IEC 61850 compliant |
| 2 | 220 kV Lines | Main-1& 2: will be numerical, communicable IEC 61850 compliance distance protection scheme with built in Fault Locator, Disturbance Recorder and Event Loggers of scheme as per nation policy or Main–2 numerical line current differential with IEC 61850 compliant |

 **3.2 400/220 and 220/66/33Kv Power Transformers.**

All windings of power transformers of EHT class shall be protected by differential relays, REF relay for HV & LV winding. Two separate relays to be provided for Main Protection e.g. differential and REF and Back up relay should be separate. Over-fluxing relays shall be provided for EHT transformers. In addition there shall be back up time lag over current and earth fault protection. For parallel operation such as back up protection shall have a directional feature. For protection against heavy short circuits, the over current relays should incorporate with a high set instantaneous element. In addition to electrical protection, gas operated relays, sudden pressure/PRV winding temperature protection and oil temperature protection shall be provided.

## Norms for Protection of 400/220, 220/66-33Kv Power Transformers

|  |  |  |  |
| --- | --- | --- | --- |
| **Voltage ratio and capacity** | **H V Side** | **L V Side** | **Common relays** |
| 400/220 kV | Directional 2O/C and 1 directional E/F relay, REF | Directional 2O/C and 1 directional E/F relay, REF | Numerical differential relay and separate REF’s, over load, Overflux, Bucholz, OLTC Buchoilz, PRV,OT, WT.SPR |
| 220 / 66-33 / 11kV | 2O/C and 1 E/F relay, REF | 2O/C and 1 E/F relay, REF | Numerical differential relay and separate REF’s, Over flux, Bucholz, OLTC Bucholz, PRV,OT, WT.SPR |

**3.3 Substation Bus Bar Protection**

Adequate bus bar protection for each bus bar zone in the substation for all 400 kV and 220 kV class substations shall be provided.

LBB: At all 400 kV and 220 kV substations Local Breaker Back up protection shall be provided.

**3.4 66,33kV Lines**

Main-1 shall be Numerical three zone distance or line current differential protection scheme. The back up directional over current & directional earth fault or non directional over current and earth fault with high set as per the line requirement. Necessary indications, alarms and control shall be provided on failure of PT supply.

 **3.5 11kV Lines**

The 11kV/6.6kV distribution S/Stn. fed from Genco/Transco/Discom S/Stn. shall also be provided with following suitable protection:

1) Non directional over current and Earth Fault with high set.

 2) Time Lag fuse/MCB protection.

 **Protection norms for 66kV, 33kV & 11kV feeders.**

|  |  |
| --- | --- |
| **Line** | **Protection** |
| 66kV line in mesh | Main-1 Distance/line current differential protection & directional O/c and E/F with high set. |
| 66kV double Ckt. Parallel Fdr. | Main-1 Distance/ line current differential protection & directional O/c and E/F.  |
| 66kV single Ckt. Feeder | Distance/ line current differential protection, Non direction O/C E/F. |
| 33kV Parallel feeder | Main-1 Distance/ line current differential protection & directional O/c and E/F. |
| 33kV single ckt. Feeder | Distance/ line current differential protection, Non direction O/C E/F. |
| 11kV feeder emanating from DTL/GENCO grid (with minimum settings) | Non-directional O/c E/F with high set feature. |

**3.6 66/33, 66/11KV or 33/11KV Power transformers**

The following shall be norms of protection for transformers on different voltage classes and capacity ratings:

## Norm for Protection for EHV Class Power Transformers

|  |  |  |  |
| --- | --- | --- | --- |
| **Voltage ratio and capacity** | **H V Side** | L V Side | **Common relays** |
| 66/33KV | 2O/C and 1 E/F relay, REF | 2O/C and 1 E/F relay, REF | Differential, Buchloz, OLTC Buchloz, PRV,OT, WT |
| 66/11 kV | 2O/C and 1 E/F relay, REF | 2O/C and 1 E/F relay, REF | Differential, Buchloz, OLTC Buchloz, PRV,OT, WT |
| 33/11 kV | 2O/C and 1 E/F relay, REF | 2O/C and 1 E/F relay, | Differential, Buchloz, OLTC Buchloz, PRV,OT, WT |

3.7 **Settings Philosophy**

|  |  |  |
| --- | --- | --- |
| S. No. | Protection Setting | Reach & Time |
| 1 | Long lines Zone-1 | 80% of the Protected line, instantaneous |
| Zone-2 | 100% of the Protected line + 50% of the shortest line emanating from the far end bus bar or 120% of the Protected line whichever is higher. Time setting : 350ms for short lines (<= 100km) and 500ms for line lines > 100km |
| Zone-3 | 120% of the Protected line + 100% of the shortest line emanating from the far end bus bar or 100% of the Protected line + 100% of the longest line emanating from the far end bus bar + 25% of the longest line emanating from the far end of the second line considered whichever is lower. The zone setting to be limited such that it will not reach into the next voltage level. Time Setting : 1000m sec |
| Zone-3R | 25% of Zone-1 reach. Time Setting : 1000m sec |
| 2 | Lines with series and other compensations in the vicinity of substations | 80% of the Protected line. 100ms time delay, for allowing correct distance measurement after the series capacitor is bypassed. |
| 3 | Power Swing Blocking | Block tripping in all zones, all lines. Out of step tripping to be applied on all inter regional tie lines Deblock time delay = 2s. |
| 4 | Protection for broken conductor  | Negative sequence current to Positive Sequence current ration more than 0.2(12/11>=0.2) Only for alarm : time delay = 3-5Sec |
| 5 | Carrier Protection | To be applied on all 400kV and 220kV lines with the only exception of radial feeders.  |
| 6 | Back up Protection | 1) On 400 & 220kV lines with 2 Main Protections, back up Earth Fault protection alone to be provided. No Over Current protection to be applied. 2) On 220kV and lower voltage lines with only one Main protection Back up Protection by IDMT O/C and E/F to be applied. |
| 7 | Auto Re closing with dead time | Single pole trip and re-closing Dead time = 1.0s, Reclaim time = 25.0s |
| 8 | LBB Protection and bus bar protection | To be applied on all 400kV and 220kV sub-Stations with the only exception of 220kV radial fed bus bar.LBB current sensor I>20% In LBB time delay = 200ms |

ANNEXURE-2

DRAFT PROCEDURE FOR IMPLEMENTATION OF OPEN ACCESS IN DELHI

**PROCEDURES / GUIDELINES FOR SHORT TERM OPEN ACCESS (STOA)**

**1. Preface:**

1.1 This procedure for Short Term Open Access (STOA) is being issued in compliance to the “Delhi Electricity Regulatory Commission (Terms and conditions for Intra State Open Access) Regulations, 2005” dated 3 January 2006, and subsequent amendments thereof, if any, hereinafter referred to as “Principal Regulations” or “the Regulations”.

1.2 This procedure covers guidelines, terms and conditions and application formats for availing Intrastate short term open access of Transmission and/or Distribution system of the licensee(s)

1.3 This procedure, terms and conditions and charges will also be applicable to embedded Open Access customers who use transmission and / or Distribution system in conjunction with the Central Transmission System through bi- lateral or collective transactions through Power Exchanges, in line with DERC and / or CERC regulations for Short Term Open access, as amended from time to time.

1.4 This procedure shall be applicable for reservation of Transmission and Distribution capacity for short term sale or purchase of power by Open Access customer or existing consumers of Distribution licensees as well as bulk consumers / CPPs / IPPs or a state utility or an intrastate entity as a buyer or seller as entitled to avail short term Open Access under Open access Regulations, referred to as Short Term Open Access Customer or Customer(s) herein after.

1.5 The procedures along with requisite formats as described herein, shall also be available on SLDC web site “www.sldcdelhi.org”.

**2. Mandatory Requirements:**

2.1 The following eligibility requirements /pre-conditions are required to be fulfilled by the Open Access customer before applying/availing the Short Term Open Access (STOA):

**A) Eligibility Requirements:**

The eligibility requirements/conditions for grant of STOA shall be as laid down in the

Principal Regulations, as amended from time to time, read with following requirements:

**i) Availability of spare transmission & distribution capacity:**

The short term customer shall be eligible for STOA over the surplus capacity available on the intra-State transmission system/distribution system after use by the long term customers and the medium term customers, by virtue of

a) Inherent Design Margins;

b) Margins available due to variation in power flows; and

c) Margins available due to in-built spare transmission / distribution capacity created to cater to future load growth. Provided that construction of a dedicated transmission line/distribution system shall not be construed as augmentation of the transmission system/distribution system for the purpose of grant of Short Term Open Access.

**ii) Contract Demand (CD) & voltage Level**

The STOA shall be permissible to a customer having demand of 1 MW and above (except generating plants), connected at 11 KV or above. However, all the generating plants will be allowed open access for wheeling of power.

For the consumers of distribution licensee, the demand in MW shall be computed based on sanctioned CD and Power factor as 0.9

For allowing STOA for purchase of power above contract demand, the specific permission of distribution licensee to draw the open access power above the sanctioned contract demand is required.

**iii) Connectivity**

The consumer/buyer or generating station/sellers seeking STOA should be connected to Transmission/Distribution System of STU / Distribution Licensees at 11KV or above.

An Open Access Customer shall be eligible to obtain connectivity at the voltage level specified in the Conditions of Supply of the licensee approved by the Commission, unless already connected, and shall apply for connectivity in accordance with the State Grid Code/Principal Regulations.

**iv) Feeder status / category supplying power to customer:**

Open Access shall be allowed on all feeders except feeders serving mixed loads of urban / industrial consumers Provided that, the customers connected to mixed industrial feeders, shall be allowed open access subject to the condition that they agree to roastering restrictions imposed by the utility on such feeders.

**v) Registration of Open access Customer**

An Open Access Customer connected with Intrastate Transmission System shall be Registered with SLDC on prescribe format ST-7A for generator & ST-7B for the Purchaser &One time registration charges of Rs. 10,000/- shall be payable to the ‘**Delhi SLDC R&E’** Accounts through Bank draft/cheque payable at Delhi. This registration charge is valid for a specified injection / drawal point with respect to Intrastate Transmission System. Any change in the injection / drawal point shall be treated as a new connection and the charges for registration shall have to be paid by the applicant.

**vi)** A person having been declared insolvent or bankrupt or having outstanding dues against him for more than two months billing of distribution/transmission licensee at the time of application shall not be eligible for open access. Provided that, if the dispute regarding outstanding dues is pending with any Forum or Court and stay is granted by the competent authority, in that case the person shall be eligible for seeking open access.

**vii)** In case of Generators, besides fulfilling the connectivity requirement to Licensees system, they shall also be required to furnish copy of compliance report to the feasibility clearance issued by STU or Distribution Licensees, as applicable, along with any other statutory clearance.

**2.2** On meeting the mandatory eligibility requirements, the applicant shall be issued the approval for grant of Short Term Open Access / NOC / Standing clearance / concurrence whichever is applicable by the Nodal Agency.

The consumer should ensure that the application for open access for whole day and minimum period of one month.

There after, the following pre-conditions are required to be fulfilled by the Open Access applicant:-

**i) Metering Requirements:**

a. The Open Access Customer shall provide ABT compatible Special Energy Meters at the point (s) of injection and point (s) of drawl if not already provided. Special Energy Meters installed shall be of the make approved by STU / Distribution Licensees and shall be capable of time-differentiated measurements for time-block-wise active energy and voltage differentiated measurement of reactive energy in accordance with the Metering Code drawn out as per provisions of Delhi Grid Code / CEA guide lines.

The Open Access Customer shall provide Main Meters in its premises as specified in the Metering Code drawn out as per State Grid Code. The distribution licensee shall provide Check Meters of the same specifications as Main Meter.

b. An Open Access Customer may request Distribution Licensee to provide Main Meter(s). In that case he shall pay security to Distribution Licensee and shall also pay rentals as per Schedule of General Charges for the Main Meter(s) which shall be maintained by the distribution licensee.

c. The meters shall be duly tested and sealed in the presence of STU/Distribution Licensees / Consumer and shall also be checked / tested at site by enforcement wing of the Distribution Licensee / STU after installation.

d. All Open Access Customers shall abide by the Central Electricity Authority (installation and operation of meters) Regulations, 2006 (as amended and revised from time to time) in respect of special energy meters or interface meters (Main, Check and Standby meters) to be installed by STU or any other utilities authorized to install meters at interface points.

e. **As per Metering Code of Delhi**, the Main and Check Meters shall be periodically tested and calibrated by State Transmission Utility / Distribution Licensee as per requirement **(Once in a year or as & when required)**.

f. The Metering Guidelines to be followed by Open Access customer shall be as per enclosed format Annexure-1**.**

**ii) Communication Facility:**

Main and Check Meters shall have facility to communicate their readings/data to the State Load Dispatch Centre (SLDC) on real time basis. In case of generators/sellers and Open Access Customers who have **sought Open Access for 10 MW or above**, the facilities/equipments for communication/transfer of metering parameters to SLDC control room on real time basis through two independent channels are to be provided by them at their cost at their end.

**iii) Control Room :**

To communicate with SLDC & Area Load Despatch Center (ALDC) of Distribution Licensee, an Open Access Customer having connected load of 10MW or more shall be required to provide a round the clock control room at its premises with following facilities:

a) Telephone/Mobile with STD.

b) Transmission and receipt of fax and e-mail.

**2.3** SLDC/STU/Distribution licensees reserves right to deny open access to customers or withdraw it any time in case of not fulfilling any of the eligibility conditions like change of feeder status, payment defaults, etc or otherwise due to any technical / operational constraints. Reasons for such denial/withdrawal shall be immediately conveyed to the customer.

**3 Procedure for Submission of Application:**

**3.1 Application Format**

The application for approval of STOA shall be made in the appropriate prescribed format / form (Format-ST1) for applying Open Access which shall be submitted to the Nodal Agency in accordance with the Regulations and the procedures

3.2 **Documents required:**

The application shall accompany the following documents:

**i) Application Fee:**

The application shall be accompanied by a non-refundable application fee, specified as under, through DD in favour of **Delhi SLDC R&E Account** payable at Delhi.

**A) Intrastate bi-lateral STOA**

i) When location of drawal & injection points are within same distribution licensee i.e. without involving STU. @ Rs 2000/ application

ii) When location of drawal & injection point in the intrastate transmission system within the State i.e. involving STU @ Rs 5000/ application

**B) Inter- state STOA (Collective transaction/ bilateral) @ Rs 5000/ application**

**i) Self-attested documents:**

1. Copy of sanctioned Load and Contracted Demand (CD).
2. Copy of latest energy bill issued by distribution licensee, in case customer is a consumer of distribution licensee. The customer must ensure that the last bill issued by the Distribution Licensee should be paid.
3. Copy of stay granted by the competent authority, in case of disputes regarding outstanding dues pending with any Forum or Court.
4. Clearance by the competent authority in case of Power producers/ CPPs/Generators using Non Conventional Energy Source.
5. Connectivity details with Transmission / Distribution Licensee in case of generators or Open Access Customer.
6. Single Line Diagram of the electrical system showing details of metering equipments installed.

**ii) Undertakings by the firm regarding**

1. Undertaking regarding having not been declared insolvent or bankrupt
2. Undertaking having no outstanding dues against them for more than two months billing of distribution / transmission licensee at the time of application.
3. Undertaking to accept rostering restrictions imposed by the utility in case of mixed industrial feeder.

**C) Undertaking for Payment Security:**

In case of sellers / generators and Open Access customers (other than the consumers of the licensee), the applicant for open access will also be required to give an undertaking to open an irrevocable Bank Guarantee as per Format ST-8 in favour of the agency responsible for collection of various charges for the estimated amount of various charges for a period of two months in line with payment security mechanism guidelines as per Principal Regulations, as amended from time to time.

**D)** **Undertaking for Acceptance to Terms & Conditions**:

An Open Access Customer shall also be required to submit a signed undertaking cum self attested certificate on a legal paper (Non judicial stamp paper worth Rs 100/-) towards acceptance to the terms and conditions for short term Purchase/sale of Power through Open Access, as per Format –ST 6.

**3.3** All applications for Short term Open Access complete in all respects in duplicate, shall be submitted in the following office address on all working days during 10.00 AM to 05.00PM

**Manager (System Operation – Energy Accounting)**

State Load Despatch Centre,

 SLDC Building, 33KV Sub Station, Minto road, Delhi-110002.

(E-mail: “dtldata @ gmail.com”)

**3.4** The application complete in all respect on receipt shall be duly acknowledged and shall be allotted application Sr No. indicating date of receipt. Date of receipt of application complete in all respects in SLDC, Delhi shall be considered as the date of application.

**3.5** Incomplete applications shall be liable for rejection. The reasons for rejection shall be communicated to the applicant.

**4.0 PROCESSING / APPROVAL OF APPLICATION**

4.1 **Consent by Distribution Licensee**:

On receipt of application, SLDC shall forward one set of application to the office for verification of field data/information and seeking consent from the nodal office of the Distribution Licensee as under

a) If Open Access User, in Distribution Licensee’s area say ‘D1’, desires to sell power to another Distribution Licensee ‘D2’ (through transmission network) then the user has to get consent from D1

b) If open access user, in distribution licensees area say D1, desires to sell power to a consumer in another distribution licensee D2 (through transmission network) then the user has to get consent from D1 & D2

**4.2 Verification of Feeder status and Field data by Distribution Licensees:**

On receipt of application from SLDC, the Distribution Licensee’s nodal office shall verify the information and seek confirmations/field data from concerned official as under:-

a) Certificate regarding feeder category status and copy of latest sketch of feeder

b) Confirmation regarding outstanding dues against the firm for more than two months and detail of stay granted by Court/Forum, if any.

**4.3 Time Frame:**

i) The maximum processing time for verification of field data and subsequent initial consent to SLDC by the designated office of Distribution Licensee on the Format ST-5A, **shall be within 12 working days,** from the date of receipt of application from SLDC, the Nodal Agency.

ii) Subject to receipt of consent, as per (i) above, the time frame for conditional approval, NOC/Standing clearance, concurrence/consent by the SLDC shall be;

* 7 working days in case of first time transaction.
* 3 working days on subsequent transactions

iii) In case of incomplete or defective application, SLDC shall communicate the deficiency or defect to the applicant by e-mail or fax, or any other usually recognized mode of communication, within two (2) working days of receipt of application. In such cases, the date of receipt of application shall be the date on which the application has been received duly completed, after removing the deficiency or rectifying the defects, as the case may be.

Note:

a) The above time lines are applicable in case of the total drawal including open access less than or equal to the sanctioned contract demand.

b) The consent given by Distribution Licensee to SLDC for approval of STOA shall be valid for three months from the date of its issue, for the purpose of issuing NoC / Standing Clearance / Concurrence / Consent by SLDC. The Distribution Licensee shall withdraw its consent given to SLDC in case of any violations in the mandatory / eligibility requirements of the OA customer, as specified under Clause 2.0 above, which shall be duly intimated to SLDC by Distribution Licensees.

**4.4** Subject to fulfilling the mandatory requirements, receipt of timely consent of Distribution Licensees and availability of spare transmission/distribution capacity without jeopardizing the safety of the grid, the case for grant of Open Access to the Short term customers shall be decided by the nodal agency i.e. SLDC.

**4.5** Subsequent to the decision by the nodal agency (SLDC), the conditional approval for grant of the Short term Open Access shall be conveyed to the Customer as per the format-ST 5(B) with a copy to Nodal Office of the Distribution Licensee and concerned Grid official by ALDC of Distribution Licensees.

**5.0 Compliance of conditions and issue of NOC/Standing Clearance/Concurrence**

The Open Access customer shall comply with the conditions laid down in the conditional approval issued by the Nodal Agency (SLDC) and submit, meter test reports issued by Concerned Authority along with site installation report indicating CT/PT ratio details & Special Energy Meter Data and the point wise compliance report of Metering Guidelines duly signed and issued by concerned official. Simultaneously, the customer shall intimate the intended date(s) of transaction to SLDC as per the prescribed formats for seeking NOC / Standing Clearance / Consent, as the case may be, along with Copy of MoU / agreement for sale / purchase of Open Access power, if applicable, and any additional information or documents required to be submitted as per the letter issued by SLDC conveying the conditional approval.

**6. ISSUE OF APPROVAL / CONSENT / NOC/ STANDING CLEARANCE / CONCURRENCE**

6.1 On receipt of the compliance of conditions and information as per Clause 5.0 above, SLDC shall allot a unique Open Access ID No. (Account Number) to the customer, which shall be mentioned by the customer in all future requests for transactions / correspondence.

6.2 After verification of compliance of various conditions and receipt of additional documents, if any the Nodal Agency shall allow to operationalize the Short term Open Access, as per the request of the Open Access customer, from the intended date of start and convey as under:-

i) If the Open Access is not approved due to any reason, the customer shall be informed accordingly.

ii) In case of Open Access transaction through power exchange, NOC/Standing clearance shall be issued and conveyed to the Power Exchange with a copy to customer and Distribution Licensees.

iii) In case of bilateral interstate transaction, concurrence shall be given and conveyed to Nodal RLDC with copy to customer and Distribution Licensees.

iv) Consent /Approval for intrastate Open access transaction shall be issued and conveyed to the customer with copy to Distribution Licensees.

6.3 Subsequently, the customer shall apply for NOC / Standing clearance, concurrence, consent, as the case may be, from the SLDC, maximum up to a period of one month period. 3 days in advance, along with requisite application fee, as per Clause 3.2 (i) herein above.

6.4 In case of refusal of NOC or standing clearance or concurrence or consent, as the case may be, on the specified grounds like non availability of surplus transmission or distribution capacity or any operational constraints, such refusal shall be conveyed to the applicant, by e-mail or fax, or any other usually recognized mode of communication, within three (3) or seven (7) working days, as the case may be, from the date of receipt of application.

6.5 In case of any operational constraints or congestion is anticipated in any of the Transmission /distribution corridor, it shall also be immediately conveyed by STU / Distribution Licensees to the SLDC as well as Short term Open Access Customer including the reduced transmission /distribution capacity which can be offered for Open access. The concerned applicant must inform the nodal agency, the acceptance of reduced Open Access capacity within 24 hours. In case of non-receipt of revised information in time, it will be presumed that the applicant is no longer interested in revising it and SLDC will process the application accordingly.

NOTE:

1) The application for approval, NOC/Standing clearance, concurrence, may be sent to designated office under SLDC through fax or e-mail as a *pdf* format attachment.

2) The Application Fee for each bilateral transaction or the collective transaction shall be accompanied by a non refundable Application fee in the form of DD in favour of SLDC, payable at Delhi or through electronic transfer of funds (RTGS/NEFT) in favour of SLDC, Delhi at specified Account nos.

3) SLDC will seek consent of Distribution Licensees one month before expiry of earlier consent for issue of NOC/Standing Clearance/Concurrence as the case may to the Open Access customer.

**6.6** **Procedure for Short Term Open Access**

1) **Involving inter-State transmission system:**

Notwithstanding anything contained in clauses (2) to (3) herein below, procedure for inter-State short-term Open Access shall be as per Central Electricity Regulatory Commission (Open Access in inter-State Transmission) Regulations, 2008, or its statutory re-enactments, as amended from time to time: Provided that in respect of a consumer connected to a distribution system seeking interstate short-term open access, the SLDC, before giving its consent to the RLDC as required under the CERC regulations, shall obtain the consent of the distribution licensee concerned.

2) **Without involving inter-State transmission system:**

Subject to the provisions of sub-regulation (1) herein above, intra-State short-term Open Access shall be in accordance with the provisions of clause (a) to (h) herein below:

**(a) Open Access in advance**

(i) Application may be submitted to the SLDC seeking short-term open access upto the second month, considering the month in which an application is made being the first month.

(ii) Separate application shall be made for each month and for each transaction in a month.

(iii) The application to the SLDC shall be on the prescribed Form containing such details as capacity needed, generation planned or power purchase contracted, point of injection, point of drawl, duration of availing open access, peak load, average load and such other additional information as may be required by the Nodal Agency (SLDC). The application shall be accompanied by a non refundable application fee as prescribed in Sr.No.3.2A(i) & (ii) above.

(iv) An application for grant of open access commencing in any month may be submitted in a cover marked “Application for Short-Term Open Access – in advance” upto 15th day of the preceding month. For example, application for grant of open access commencing in the month of Aug shall be received upto 16th day of July.

(v) SLDC shall acknowledge receipt of the application by indicating time and date on “ACKNOWLEDGEMENT” to the applicant.

(vi) A consumer of distribution licensee intending to avail open access shall also furnish a copy of his application to the concerned official of the distribution licensee.

(vii) Based on the type of transactions SLDC shall take a decision on the applications for Short-Term Open Access in the manner provided herein below.

(viii) All applications received under sub-clause (iv) above shall be taken up for consideration together and processed as per allotment priority criteria specified under Regulation 8(1) to 8(4) of Principal Regulations, as amended from time to time.

(ix) SLDC shall check transaction for congestion of any element (line and transformer) of transmission and distribution system involved in transaction.

(x) SLDC shall convey grant of open access or otherwise along with schedule of payments to the consumer latest by 19th day of such preceding month.

(xi) SLDC shall assign specific reasons if open access is denied under sub clause (x)

**(b) Open Access on first come first served basis**

Applications for open access for the second month, received after the date specified in S.No. 2(a)(iv) above and the applications received during the first month shall be considered on first come first served basis. Provided that such applications shall reach the Nodal agency at least four days in advance of the date of the open access transaction. All these applications shall be processed and decided within three days of their receipt. For example: The application for open access commencing from 10thAug shall be submitted by 5th Aug by 5 PM.

**(c) Day-Ahead Open Access**

(i) An application for grant of day ahead open access may be received by SLDC three days prior to the date of scheduling but not later than 1300 hours of the day immediately preceding the day of scheduling for such transaction. For example, application for day-ahead transaction on 25th day of July shall be received on 22nd day or 23rd day or upto 1300 hours on 24th day of that month.

(ii) SLDC shall check for congestion and convey grant of approval or otherwise by 18:00 hours of the day immediately preceding the day of scheduling. All other provisions of application for short-term open access shall apply.

**(d) Bidding Procedure/Congestion Management**

i) If the capacity sought by the consumers for Open Access in advance for the following month is more than the available capacity or SLDC perceives congestion of any element of transmission and distribution system involved in the transaction, the allocation shall be made through electronic bidding procedure.

NOTE:

1. Till SLDC establishes infrastructure for electronic bidding, such applications shall be dealt on first come first serve basis.

ii) The decision of SLDC in respect of an expected congestion shall be final and binding.

iii) SLDC shall convey information of congestion and decision for invitation of bidding indicating floor price through an email/SMS notice, to the applicants.

iv) SLDC shall also display bidding information on its website.

v) The floor price of transmission and wheeling charges determined on the basis of relevant order of the Commission shall be indicated in the notice.

vi) The bids shall be accepted on the prescribed format, to be notified by SLDC, and shall be received up to the scheduled “bid closing time” as indicated in bidding invitation notice. Modification / amendment to a bid, once submitted shall not be entertained.

vii) If any consumer does not participate in bidding process, his application shall be deemed to have been withdrawn and shall not be processed.

viii) SLDC shall not entertain any request for extension of time/date for submission of bids.

ix) The bidders shall quote price in terms of percentage points above the floor price;

x) The quoted price shall be arranged in descending order and allocation of available capacities shall be accorded in such descending order until the available capacity is exhausted.

xi) In case of equal price quoted by two or more customers, the allocation from the residual available capacity at any stage under sub-clause (x) above shall be made in proportion to capacity being sought by such customers.

xii) Open Access customers in favour of whom full capacities/partial capacities have been allotted shall pay the charges quoted by each of them in the course of bidding process.

xiii) SLDC shall reject bids which are incomplete, vague in any manner or not found in conformity with bidding procedure.

xiv) The successful bidder, in favour of whom the capacities have been allocated, shall pay transmission charges, wheeling charges, as the case may be, determined by bidding under sub clause (xii) above.

e) The reserved capacity by a short-term open access consumer is not transferable to others.

f) The capacity available as a result of surrender or reduction or cancellation of the reserved capacity by the SLDC, may be reserved for any other short-term open access customer in accordance with the Principal Regulations.

g) During peak load hour restrictions, the open access customers shall restrict their total drawl including open access power to the extent of the peak load exemption allowed.

h) On expiry of the period of the short-term open access, the short-term customer shall not be entitled to any overriding preference for renewal of the term.

**3) Within same distribution system:**

The procedure specified in clause (2) above, mutatis mutandis, shall apply to cases of short-term open access when the point of injection and the point of drawl are located in the area of the same distribution licensee.

**7** **Revision of Schedule**:

**7.1** The short-term open access schedules accepted by SLDC in advance or on first come

first served basis, may be cancelled or revised downwards on an application to that effect made to the SLDC by short term open access customer; provided that such cancellation or downward revision of the short term open access shall not be effective before expiry of two (2) days excluding the date of receipt of application and date of implementation.

7.2 In case of cancellation or downward revision by the customer, the customer shall pay transmission and wheeling charges for first two days of the period for which the cancellation or downward revision of schedule has been sought in accordance with the schedule originally approved by the SLDC and thereafter as per the revised schedule accepted by the SLDC during the period of such cancellation or downward revision.

7.3 In case of cancellation, the operating charges shall be payable by Open Access customer for two days or the period of cancellation in days, whichever is less.

7.4) The Open Access Customer(s) shall co-ordinate with the concerned buyer/seller in case of revision of Intra state sale / purchase and send a consolidated request to the SLDC and the same shall be implemented from the sixth time block considering the block in which request for revision is received as first time block. The decision of SLDC regarding acceptance of the request for revision shall be final and Binding

Note-There shall not be any revision in schedule during the day of operation in respect to –

(a) ‘intra-state entity’ engaged in bilateral interstate transaction as seller, and

(b) ‘intra-state entity’ engaged in bilateral interstate transaction as buyer,

because Regulation-14 of CERC Open Access Regulation, 2008 says that the short term open access schedules accepted by the nodal agency *(RLDC in case of bilateral transaction or NLDC in case of collective transaction)* in advance or on first come first served basis may be cancelled or revised downwards on an application to that effect made to the nodal agency by such customer but such cancellation or downward revision of schedule shall not be effected before expiry of a minimum period of two days.

The day on which notice for cancellation or downward revision of schedule is served on the nodal agency and the day from which such cancellation or downward revision is to be implemented shall be excluded for computing the period of two days.

7.5) In the event of bottleneck in evacuation of power due to any constraint, outage, failure or limitation in the intra- State Transmission System, associated switchyard and sub-stations owned by the State Transmission Utility or any other transmission licensee involved in intrastate transmission (as certified by the SLDC) necessitating reduction in generation, the SLDC shall revise the schedules which shall become effective from the 4th time block, counting the time block in which the bottleneck in evacuation of power has taken place to be the first one. Also, during the first, second and third time blocks of such an event, the scheduled generation of the ‘generating stations and injecting entities’ shall be deemed to have been revised to be equal to actual generation, and the scheduled drawls of the ‘drawl entities’ shall be deemed to have been revised to be equal to their actual drawls.

**8.0 Transaction of Power due to failure of Transmission / Distribution System:**

8.1. If an Open Access Customer is unable to draw the scheduled energy due to unscheduled cut or failure of transmission / distribution system of the licensee, the power injected will be treated as Unscheduled Interchanged Energy and shall be adjusted at UI capped rate i.e. Rs. 4.03Ps/Unit or as amended time to time by the appropriate Commission

**9.0 Open Access by a Generator/Seller**

**Failure of Evacuation System of the licensee:**

A generator in the State may be supplying power outside the State, within the State to an open access customer or sale to the distribution licensee. Non evacuation of power due to breakdown of evacuation system of the licensee will be dealt with as under:

**(a) Inter-State sale**

The schedule given by the generator will be passed on to NRLDC by the SLDC. The share of licensee from the central sector projects will be adjusted accordingly and the energy scheduled by the generator to be fed will be delivered to the purchaser / utility. If the licensee is unable to evacuate power from the generator due to failure of evacuation system of the licensee, the generator will pay to the licensee at the tariff rate charged to the purchaser for the energy which could not actually be evacuated by the licensee due to breakdown of evacuation system of the licensee. However, the generator will be compensated by the licensee for Open Access transmission and wheeling charges, if any, paid to the licensee during the period of non-evacuation of power from the generator.

**(b) Sale within the Distribution Licensee**

The payment to the generator will be made as per the power purchase agreement with the Customer / Licensee.

**(c) Intra-State sale**

SLDC will inform the purchaser about the failure of evacuating system and the purchaser shall stop drawing power within 6 blocks (each of 15 minutes) of this intimation. For the intervening period:

(i) The purchaser will pay to the generator at the tariff agreed to between them.

(ii) The generator will pay to the licensee for the energy supplied by the licensee to the purchaser, at the rate agreed between the generator and the purchaser.

(iii) The generator will be compensated by the licensee for payment of Open Access transmission and wheeling charges, if any, paid by the generator during non evacuation of power. Upto 6th time block of non evacuation, the generator shall pay to the Distribution Licensees in whose area the generator exists at agreed rate to the buyer of other Distribution Licensee. After 6th block, the energy drawn by the purchaser / Open access customer will be charged for the Mismatch as per provisions of UI Regulation applicable for Open Access customers, as amended from time to time.

**10.0 METER READING & ENERGY ACCOUNTING**

10.1 The sellers and buyers involved in the transaction facilitated through open Access shall abide by the Indian Electricity Grid Code and State Grid Code and the instructions given by SLDC as applicable from time to time.

10.2 The customer shall be governed by the commercial mechanism of Un-schedule Interchange (UI) Charges so as to maintain grid discipline as envisaged under the Grid Codes in scheduling, dispatch and drawl of electricity.

10.3 Meter data downloading / reading of Special Energy Meters shall be taken by consumer representative & mail it in prescribed format to concerned nodal agency, as per State Grid Code and Supply Code requirements which shall be weekly in case of Generators / Sellers and monthly in case of purchasers. Any change in Multiplication factor / CT / PT ratio setting shall also be recorded. The downloaded data in the form of CD and hardcopy printout along with a statement of consumption as recorded by Main, Check Special Energy Meter, duly authenticated by concerned Licensees shall be sent to SLDC for preparation of UI Energy Account.

10.4 **Unscheduled Interchange (UI) Energy Accounting:**

Open Access power consumption and UI energy account under Open Access in case of Open Access customers shall be prepared by SLDC based on ABT meter data downloaded by distribution licensee in line with State Grid code requirement and daily schedule as released by the NLDC/NRLDC or obligation reports issued by the concerned power exchange after taking in to account the losses. SLDC will upload the data in their web site for provisional billing & shall prepare Weekly UI energy account in case of generators / sellers and Monthly UI energy account in case of purchasers for adjustment of OA power & UI in the energy bill for the succeeding month by Distribution Licensees for final adjustment.

10.5 In case any co-generation, renewable energy source of energy and other non-conventional energy sources based plants does not supply electricity to the distribution licensee of it’s area, UI would be applicable. This will also hold good in case such generating plant supplies electricity to more than one person including the distribution licensee of the area where such plant is located.

10.6 The entitlement at the drawl point will be worked out after considering the Transmission and Distribution losses, as determined by the commission in the Tariff order or any subsequent order for that year.

10.7 The UI mechanism, UI charges and its payments will be in line with the prevailing Open Access Regulations, as applicable for Open Access customers.

10.8 STU will organise periodical testing of the ABT meter at Consumer(s) premises for its Accuracy / calibration, clock time synchronization etc. as per provisions of Metering Code.

10.9 The special Energy Meter / Interface meters at Open Access Customers premises shall be open for inspection by any authorized person of STU/Enforcement wing of Distribution Licensees.

11.0 **CHARGES FOR OPEN ACCESS**

The Short Term Open Access Customer shall pay the following charges for Open Access as notified by DERC Regulations and as determined by DERC in its Regulations/ tariff order from time to time.

**A Transmission and Wheeling charges**

Transmission and wheeling charges shall be leviable as determined by DERC. The charges will be levied on the quantum in MWH cleared by the concerned SLDC for bilateral transactions and National Load Despatch Centre (NLDC) in case of collective transactions. Provided that when the capacity has been reserved consequent to bidding, the Open Access charges will be taken as determined through bidding.

Wheeling charges where a dedicated distribution system has been constructed for exclusive use of Open Access customer, the wheeling charges for such open access customer dedicated system shall be worked out by the Distribution Licensee(s) and got approved from the DERC, which shall be borne entirely by such open access customer till such time the surplus capacity is allowed & used for other customer (s) or purposes.

**Note: The Wheeling charges for wheeling of Non Conventional Source, power shall be governed as per the provisions for generation from Non Conventional Energy Sources.**

**B. Cross Subsidy Surcharge**

Cross Subsidy Surcharge shall be leviable as determined by the Commission in its Order /Tariff Order which shall be payable to Distribution Licensee on per unit basis by the open access customers (except those availing power from their captive power plants) based on power arranged through open access during the month through open access.

**C. Additional Surcharge**

Additional surcharge will be applicable as determined by the Commission as per Regulation 12 of DERC (Open Access) Regulations, 2005 as amended from time to time.

**D. Scheduling & System Operation Charges**

The scheduling and system operation charges @Rs.2,000/- (Rupees Two thousand only) per day or part of the day for each transaction , as notified by the Commission , shall be recovered from short-term open access customers.

In case of collective transaction, there will be no operating charges on a day if there is no transaction on that day.

**E. UI Charges**

UI charges on account of mismatch between the scheduled entitlement and actual drawal i.e. Over drawal / under drawal in case of purchaser @ max 403 Ps/unit (UI cap rate) for under drawal and over and over drawal as per UI Regulation or over injection/under injection in case of generators for any block of time @ max 403 Ps/ unit for over Injection & For under Injection shall be computed in line with DERC (Open Access) Regulations, 2005 as amended from time to time. The rates would also be subject to change as per the time to time decision of the appropriate Commission.

**F. Reactive Energy Charges**

The payment for the reactive energy charges for the Open Access customers shall be calculated in accordance with DERC (Terms and Conditions for Determination of Generation, Transmission, Wheeling and Retail Supply Tariff) Regulations approved by the Commission. Provided that no additional power factor surcharge / incentive shall be leviable on the energy drawn through open access.

**G. Standby charges for drawal of power by open access customer from distribution licensee**

In cases of outages of generator supplying to open access customer under open access, standby arrangements should be provided by the distribution licensee for a maximum period of 42 days in a year, subject to the load shedding as is applicable to the embedded consumer of the licensee and the licensee shall be entitled to collect tariff under Temporary rate of charge for that category of consumer in the prevailing rate schedule.

Provided also that open access customers would have the option to arrange standby power from any other source. Standby charges would be applicable from 00.00Hrs after the 24 hrs of serving the notice by Open Access Customer till that time customer have to pay the charges as per UI rate for drawal plus Rs 1/unit for that energy to distribution licensees. The Standby Charges for the power availed by the Open Access Customer beyond the notice period would be paid to Distribution company, similarly, placed consumers of Discoms availing temporary connection the Distribution Company.

**H miscellaneous CHARGES**

In addition to the above charges, the Utilities who are authorized to installed meters for Open Access Customer are entitled to recover charges from the customer as under:-

a) Estimated cost of ABT Meter with AMR facility =Rs.50000/-

b) Estimated expenditure involves in testing /installation/commissioning of Energy Meter=Rs.20000/-

c) Estimated expenditure for data downloading of Energy Meter per visit=Rs.2500/-

**The above rates /expenditure are without VAT/Service Tax if any applicable.**

**NOTE**-Procurement/installation of CT/PT /Metering Cubicle & its wiring upto the terminal block to be arranged by the customer.

**I. Energy Losses:**

The STOA Customer shall bear the losses as under:-

**1) Inter-State Open Access:**

The buyers and sellers of electricity shall absorb apportioned energy losses in the transmission system in accordance with the provisions specified by the Central Regulatory Electricity Commission (CERC), as notified from time to time.

**2) Intra-State Open Access:**

The Transmission & Distribution losses separately for the Intra-State system shall be determined by the Commission separately in its Tariff Orders or any specific order(s) which shall be apportioned in proportion to the actual energy drawl by the Open Access customer. The energy losses shall be compensated by additional injection at the injection point(s).

Note: The Energy losses shall also be applicable to Non Conventional Fuel Source based Generators.

**I. Any Other charges**

Any other charges/taxes determined/levied by the Delhi/Central Govt. or Commission

from time to time.

**12.0 Billing & Payments:**

12.1 The monthly bill towards net power by Open Access customer shall be raised by Distribution Licensees duly taking into account the Open Access power and UI amount payable to the customer based on the energy account prepared by SLDC.

12.2 The monthly bills towards Open Access Charges for intrastate transactions or supplementary bill towards interstate transaction not covered in remittances received through power exchange and Nodal RLDC, if any, shall be prepared & issued by Nodal Agency on monthly basis in case of purchasers and weekly in case of sellers. The STOA customer shall make payments as raised in the bills, by due date through electronic transfer (RTGS/NEFT) or Bank Draft drawn in favour of SLDC payable at Delhi.

Note: Payments/recoveries towards UI/ Imbalance charges in case of over injection or under injection by the generators/sellers shall be paid or realized by the Distribution licensee against the bill to be raised based on the energy account supplied by SLDC.

12.3 All the payments shall be accepted up to 3.00 P.M on working days only. In case due date of bill falls on holiday, it shall be accepted on the next working day.

12.4 No part payment shall be accepted.

Provided that in the event of an error in bill being admitted the amount of error shall be adjusted by the authority in the next bill rendered to the customer after settlement of the difference or dispute by the Competent Authority.

**12.5 Late payment surcharge**

In case the payment of any bill for charges payable under DERC(Open Access) Regulations, 2005 is delayed by an open access customer beyond the due date, without prejudice to any action under the Act or any other regulation there under, a late payment surcharge at the rate of 1.25% per month or part thereof shall be levied.

**12.6 Default in Payment:**

a) Non-payment of any charge or sum of money payable by the open access customer under the Principal Regulations (including imbalance charges) shall be considered noncompliance of the Principal Regulations and shall be liable for action under Electricity Act 2003. The STU or any other transmission licensee or a distribution licensee may discontinue open access after giving customer an advance notice of seven days without prejudice to its right to recover such charges by suit.

b) In case of default in payment of charges relating to the SLDC, the SLDC may refuse to schedule power to the defaulting open access customer and direct the licensee concerned to disconnect such customer from the grid.

**13.0 Collection and Disbursement of Charges:**

13.1 In case of collective transactions through power exchange, the customer shall pay applicable charges toward open access transaction to SLDC through concerned power exchange.

In case of bi-lateral interstate transactions, the charges are collected and remitted by concerned RLDC. In case of intrastate transactions, customer shall pay Open Access charges (i.e. SLDC operation, transmission and wheeling charges) directly to SLDC.

13.2 The cross subsidy charge and additional surcharge shall be payable directly to the distribution licensee in whose area of supply the consumer availing open access is located, against the monthly bill raised by Distribution Licensees

13.3 The Scheduling and Operation charges shall be payable to SLDC

13.4 The reactive energy charges as determined by DERC shall be paid to the distribution licensee in whose area of supply the consumer availing open access is located.

13.5 When the intra state transmission system and distribution system is used in conjunction with inter-state transmission system, the provisions regarding collection and disbursement of transmission, wheeling and operating charges contained in Central Electricity Regulatory Commission (Open Access in interstate Transmission) Regulations, 2008 will apply.

13.6 All the charges except charges mentioned at Sr. no.13.2 & 13.4 in first instance will be collected by SLDC directly or through RLDC/Exchange. The transmission and wheeling charges as received by SLDC shall be remitted to STU & Distribution licensees respectively, within 15 days of its receipt by SLDC.

**14.0 Payment Security Mechanism**

14.1 In case of short term Open Access, the applicant for open access will open an irrevocable and revolving Letter of Credit (L.C.) in favour of the Distribution Licensee responsible for collection of applicable charges for the estimated amount of various charges for a period of Two month as per prescribe format ST-8.

14.2 Payment security mechanism specified above is intended to ensure recovery of the applicable payment in case of payment default and not as a mechanism for regular payments.

i) The L.C. shall be opened in a Scheduled Bank mutually agreed between customer and the distribution licensee.

ii) The L.C. shall be valid for at least three months beyond the entire duration of the transaction.

iii) The L.C shall be opened before commencement of Open Access transaction.

iv) The LC shall be operated by the Licensees in case of default in payment.

v) All costs/expenses/charges associated with L.C. shall be borne by the applicant/customer.

**15.0 Redressal Mechanism**

All disputes and complaints relating to open Access shall be referred to the Commission. However, the disputes and complaints regarding metering and billing etc. shall be first referred to the Commercial and Metering Committee constituted under the State Grid Code. The Committee shall investigate and endeavor to resolve the grievance within 30 days; and if the Committee is unable to redress the grievance, it shall be referred to the Commission by the Committee or the Open Access Customer.

**16.0 Curtailment Priority**

16.1 The State Load Despatch Centre may curtail power flow on any transmission corridor by cancelling or rescheduling any transaction, if in its opinion cancellation or curtailment of such transaction is likely to relieve any transmission constraint on the corridor or to improve grid security. However, in all such cases of cancellation or curtailment, the SLDC will, as soon as practicable, intimate in writing to the customer the reasons therefore.

16.2 Subject to provisions of the State Grid Code, cancellation/curtailment will be affected as under: -

(i) Short term transaction(s) will be cancelled or curtailed first, followed by medium term transactions, which shall be followed by long term transaction(s).

(ii) Among short term transactions, bilateral transaction will be cancelled or curtailed first, followed by collective transactions.

(iii) Open Access to a distribution licensee will be the last to be curtailed within a category.

(iv) Curtailment will be effected on a pro-rata basis amongst the customers of a particular

category.

16.3 In case of curtailment of the approved schedule by the State Load Despatch Centre, transmission and wheeling charges shall be payable pro-rata in accordance with the curtailed schedule.

16.4 The SLDC Operating charges, as specified under the relevant provisions of DERC (Open Access) Regulations, 2005 as amended from time to time, will be payable irrespective of curtailment, if any.

16.5 However, the concerned Nodal Agency should ensure that Non Conventional Energy Source based generator where are mainly Must Run Plant should be tried to be scheduled first so that the generation from such Non Conventional Sources does not affect.

**ACTIVITY CHART SHOWING TIME LINES FOR SHORT TERM OPEN ACCESS PROCESS**

**ACTIVITY**

**A) Approval of Short Term Open Access TIME LINE**

i) Submission of Application By Consumer to SLDC 0

ii) Verification of field data and Consent by Distribution within 12 working days

 Licensee

iii) Decision by SLDC for conditional approval within 3 working days

 **Total: 15 Working Days**

**B) INSTALLATION OF METERING EQUIPMENTS.**

i) Procurement of Metering Equipment within 30 days

By the authorized agency

ii) Testing by Authorized agency within 10 days

iii) Installation at site by consumer/Dist Licensees within 10 days

iv) Testing by Distribution Licensees /STU & issue of within 10 days

Point wise compliance report

**C) Issue of NOC/Standing clearance/Concurrence by SLDC**

i) Submission of application 0 working day

ii) First NOC/Standing clearance/Concurrence within 7 working days

iii) Subsequent Monthly NOC/SC/Concurrence within 3 working

**D) Down loading of Meter data & preparation of Energy account by SLDC:**

i) Meter reading & down loading of data by Dist: 0 Hr.

Licensees (on due date) (Monthly in case of

Purchaser & weekly in case of Seller)

ii) Submission of downloaded data to SLDC by within two days

Distribution Licensees / STU

iii) Preparation of Energy Account by SLDC within 7 days

for Distribution Licensees

iv) Forwarding of UI Energy Account by Dist licensees within a month

**GUIDELINES FOR INSTALLATION OF METERING EQUIPMENTS AND ARRANGEMENTS AT THE PREMISES OF OPEN ACCESS CUSTOMERS.**

The following guidelines are to be strictly implemented for installation of metering equipments including ABT compliant special energy meters (SEM) of accuracy class 0.2S/0.2 and connecting arrangements for metering of open access customers.

**A) Open Access Customer's Premises (To be complied by OA Customer)**

i) Open Access Customers injecting power in to the Distribution Licensee / STU system shall provide separate line bay with line protection scheme at both ends to take care of any fault on line.

ii) Meters are to be installed directly on line without any isolator in between line and metering CTs/PTs.

iii) Metering CTs/PTs should be exclusively for Dist. licensees metering. Customers may install any additional meter with separate CT/PT.

iv) CTs of 0.2S and 0.2 accuracy class is to be installed where CT output is 5A (in case of 11kV) and 1A (in case of 66/132/220kV) respectively. However PTs of accuracy class 0.2 are to be used.

v) Metering CT/PT should be exclusive for metering purpose. These will not be allowed for protection purpose. However metering CT/PT are to be provided with minimum two metering cores, one core to be used for main ABT meter & 2 core to be used for check meter & TPT meter.

vi) The meter should be installed nearest to the CT/PT in separate room, with easy/free access by Dist licensees/STU staff.

vii) All connecting cables from CT/PT to meters should be routed through conduit pipe duly welded.

viii) Un-climbable fencing around metering, CT, PT area is to be provided which will be sealed by STU.

ix) Use of only single ratio metering CTs will be allowed. Multi ratio CTs are not to be used in any case.

x) Metering CTs/PTs, bottom plate needs to be welded after testing/installation at site.

xi) Open access customer (non-consumer of Distribution Licensees) is required to provide two communication channels at his own cost for communication of metering data to SLDC control room.

xii) Consumers who have already installed CT / PT without witness/checking of Distribution Licensee / STU shall get the same tested in the presence of Distribution Licensee / STU representative.

xiii) Meter is not to be installed in the control room of consumers substation.

**B) Compliance by STU**

**At Consumer end:**

i) Installation of check Meter

ii) ABT meter installed for consumers injecting & drawing power to be import/export type of accuracy class 0.2S.

**At Distribution Licensee / STU Sub Station end**

i) Supply should not be tapped from Bus PT. Exclusive line CTs and PTs are to be installed for metering at Sub Station end. CT/PTs provided shall have two metering cores.

ii) Meters are to be installed near line bay in Sub Station Yard.

|  |
| --- |
| Formats for Short-Term |
| **FORMAT - ST1** |
| **APPLICATION FOR GRANT OF SHORT-TERM OPEN ACCESS** |
|  |  | *( to be sent by customer to* ***Nodal Agency****)* |  |  |
| **To: Nodal Agency** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 1 | Customer Application No: | *<self generated by Customer>* | Date: |   |
| 2 | Period of Transaction: |  |
| 3 | Name of Customer\* | *< seller/buyer/captive user/trader (on behalf of seller/buyer/captive user >* |
| *<\* In terms of power transfer>* |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 4 | Customer Name |   |
| 5 | Registration Code |   | Valid up to |   |
| *< Registration code shall be as provided by Nodal Agency >* |  |  |  |  |
|   |   |   |   |   |   |   |   |   |
| 6 | Details of Transaction Party's to Grid |
| Name of Entity | Injecting Entity | Drawee Entity |
| Status of Entity\* |   |   |
| Utility in which it Embedded |   |   |
| *<\* In terms of Ownership-State Utility/CPP/IPP/Discom/Consumers/Specify, if any other>* |   |   |
|   |   |   |   |   |   |   |   |   |
| 7 | Details of Transaction Party's to Grid |
|   |   |   |   | Injecting Entity | Drawee Entity |
| Name of Sub-Station | Transmission |   |   |
| Distribution |   |   |
| Status of Entity\* | Transmission |   |   |
| Distribution |   |   |
| Name of Licensee (Owner of S/S) |   |   |
| Intervening intra-State Licensee |   |
| Intervening inter-State Licensee |   |
| *< Distribution licensee if required, may treat interface periphery as its connectivity points >* |   |
|  |  |  |  |  |  |  |  |  |
| 8 | Open Access Sought for (Period from date\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_) |
| Date | Hours | Capacity  |
| From  | To | From | To | MW\* |
|   |   |   |   |   |   |
|   |   |   |   |
| *< MW\* at point of injection>* |   |   |   |   |   |   |
| 9 | Details of PPA/PSA/MoU |
| Name & Address of parties | Date ofPPA/PSA/MoU | Validity Period | CapacityMW\* |
| Seller | Buyer | Commencement | Expiry |
|  |  |  |  |   |  |
|   |   |   |   |   |   |   |
| 10 | Details of Non-Refundable Application Fee Made |
| Bank Details | Instrument Details | Amount(Rs.) |
| Type(Draft) | Instrument No. | Date |
|   |   |   |   |   |
|  | FORMATE ST1: APPLICATION FOR GRANT OF SHORT-TERM OPEN ACCESS (Page- 1 of 3) |
|  |   |   |   |   |   |   |   |   |
|  |   |   |   |   |   |   |   |   |
|  |   |   |   |   |   |   |   |   |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **11** | **I here by authorized Nodal Agency to process said application, in case open access capacity allotted, for day ahead scheduling in accordance with the provision of intra-State ABT** |
|  |  |  |  |  |  |  |  |  |
| **12** | **Declaration** |
| **All Entities/Utilities to transaction shall abide by provisions of the Electricity Act 2003(the Act), SERC (Terms and Conditions for Intra State Open Access) Regulations and any other relevant regulation/order/ code as amended from time to time.** |
|   |   |   |   |   |   |   |   |   |
|  |  |  |  |  |  |  |  |
| Place | : |  |  |  | Signature (With Stamp) |  |  |
| Date | : |  |  |  | Name & Designation |  |  |

Enclosures

1) Non-refundable application fee by Demand draft or cash receipt (if payment by cash).

(2) Self–certified copy of PPA/PSA/MoU entered between the parties (buyer and seller) of transaction stating contracted power, period of transaction, drawal pattern, point(s) of injection and drawal etc.

(3) Self-certified copies of unconditional concurrence of STU and/or transmission licensee and/or distribution licensee.

(4) If any other.

**Copy to along with relevant enclosures [except (1) & (2)]:**

(1) General Manager (Commercial) of Transmission Licensee involved in transaction.

(2) Concerned officer of Distribution Licensee involved in transaction

(3) Any other concerned

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   |   |   |   |   |   |   |   |   |
| **For use of SLDC (with Reference to Enrolment of Application)** |
| **SLDC Reference ID No.** |   |
| **Nodal SLDC Approval No.** | *< if approved >* |
| **Or Reason of Refusal\*(If Refused)** |   |
| *<\* Nodal Agency may also enclosed supporting documents for the reasons of refusal duly signed on each page >* |
|  |  |  |  |  |  |  |  |  |
| FORMATE ST1: APPLICATION FOR GRANT OF SHORT-TERM OPEN ACCESS (Page- 2 of 3) |
|   |   |   |   |   |   |   |   |   |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   |   |   |   |   |   |   |   |   |
| Formats for Short-Term |
| **ACKNOWLEDGEMENT** |
|  |  |  | *(for office use only)* |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **APPLICATION FOR GRANT OF SHORT-TERM OPEN ACCESS** |
| (A) *< to be filled by the customer >* |  |  |  |  |  |
| 1 | Customer Application No: | *<self generated by Customer>* | Date: |   |
| 2 | Period of Transaction: |  |
| 3 | Name of Customer\* | *< seller/buyer/captive user/trader (on behalf of seller/buyer/captive user >* |
| *<\* In terms of power transfer>* |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 4 | Customer Name |   |
| 5 | Registration Code |   | Valid up to |   |
| *< Registration code shall be as provided by Nodal Agency >* |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| (B) *< to be filled by* ***Nodal Agency****>* |  |  |  |  |  |
| **Date and time of Receipt of Application** |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Place | : |  |  |  | Signature (With Stamp) |  |  |
| Date | : |  |  |  | Name & Designation |  |  |
|  |  |  |  |  |  |  |  |  |
| FORMATE ST1: APPLICATION FOR GRANT OF SHORT-TERM OPEN ACCESS (Page- 3 of 3) |
|  |  |  |  |  |  |  |  |  |
| ------------------X-----------------------X---------------------X----------------------------X----------------------X---------------- |
| **ACKNOWLEDGEMENT** |
| *(to be issued by* ***Nodal Agency*** *to the customer within 24 hours on receipt of application duly filled in)* |
|  |  |  |  |  |  |  |  |  |
| **APPLICATION FOR GRANT OF SHORT-TERM OPEN ACCESS** |
| (A) *< to be filled by the customer >* |  |  |  |  |  |
| 1 | Customer Application No: | *<self generated by Customer>* | Date: |   |
| 2 | Period of Transaction: |  |
| 3 | Name of Customer\* | *< seller/buyer/captive user/trader (on behalf of seller/buyer/captive user >* |
| *<\* In terms of power transfer>* |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 4 | Customer Name |   |
| 5 | Registration Code |   | Valid up to |   |
| *< Registration code shall be as provided by Nodal Agency >* |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| (B) *< to be filled by* ***Nodal Agency****>* |  |  |  |  |  |
| **Date and time of Receipt of Application** |   |
|  |  |  |  |  |  |  |  |  |
| Place | : |  |  |  | Signature (With Stamp) |  |  |
| Date | : |  |  |  | Name & Designation |  |  |
|  |  |  |  |  |  |  |  |  |
| **N.B:** | **This counterfoil may be scored out and issued to the customer.** |  |  |  |
|  |  |  |  |  |  |  |  |  |

FORMATE ST1: APPLICATION FOR GRANT OF SHORT-TERM OPEN ACCESS (Page- 3 of 3)

|  |
| --- |
|  |

FOR GRANT OF SHORT-TERM OPEN ACCESS (Page -1 of 3)

*FORMATS for Short-Term*

**FORMAT-ST2**

**APPROVAL FOR SHORT-TERM OPEN ACCESS**

*(to be issued by SLDC)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Nodal SLDC Approval No. | / (R-0) | Date |  |

*<’R-0’ states original approval with revision no. - zero>*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | Customer Application No. | *<as provided by customer on FORMAT-ST1>* | Date |  |
| 2 | Period of Transaction |  |
| 3 | Nature of Customer\* | *<seller/buyer/captive user/trader(on behalf of seller/buyer/captive user)>* |

*<\* In terms of power transfer>*

|  |  |  |
| --- | --- | --- |
| 4 | Customer Name |  |
| 5 | Registration Code |  | Valid up to |  |

|  |  |
| --- | --- |
| 6 | Details of Transaction Party’s to Grid |
|  |  | Injecting Entity | Drawee Entity |
| Name of Entity |  |  |
| Status of Entity\* |  |  |
| Utility in which it is Embedded |  |  |

*<*\**In terms of ownership- State Utility/CPP/IPP/ISGS/Discom/Consumer/specify, if any other>*

|  |  |
| --- | --- |
| 7 | Details of Injecting/Drawee Connectivity with intra-State System |
|  |  | Injecting Entity | Drawee Entity |
| Name of Sub-station | Transmission |  |  |
| Distribution |
| Voltage Level | Transmission |  |  |
| Distribution |
| Name of Licensee (Owner of S/S) |  |  |
| Intervening intra-State Licensee |  |
| Intervening inter-State Licensee |  |

*<Distribution licensee, if required, may treat interface periphery as its connectivity points>*

|  |  |  |  |
| --- | --- | --- | --- |
| 8 | Open Access Sought for ( Period from date \_\_\_\_ to date \_\_\_\_) | Revision No. | 0 |
|  | Date | Hours | Capacity(MW) | MWh |
| From | To | From | To | Applied | Allotted |
|  |  |  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  | Total MWh |  |

|  |  |
| --- | --- |
| 9 | Details of Bidding *<only in case of Bidding>* |
|  | Details ofIntra-State System | Date | Hours | Applicable Rate(Rs./kWh) |
| From | To | From | To |
| Transmission System |  |  |  |  |  |
| Distribution System |  |  |  |  |  |

1. The approved transaction shall be incorporated in day-ahead scheduling in accordance with the provisions of intra-State ABT. *<only in case of approval>*
2. Please submit following to SLDC with details on format [FORMAT-ST5] in the manner as specified in procedure: *<only in case of approval>*
3. SLDC Fee Amount Rs. \_\_\_\_\_\_ Due Date: \_\_\_\_\_\_
4. Security Amount Rs. \_\_\_\_\_\_ Due Date: \_\_\_\_\_\_

FORMAT-ST2: APPROVAL FOR SHORT-TERM OPEN ACCESS (Page -1 of 3)

1. The approval is subject to provisions of SERC (Terms and Conditions for Intra State Open Access) Regulations, 2010 and any other relevant regulation/order/code as amended and applicable from time to time. *< only in case of approval >*
2. No approval is being granted on account of *<only in case of rejection>*

*< SLDC shall convey specific reasons if open access is denied and may also enclose supporting documents to support the same duly signed on each page >*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Place Signature (with stamp)**

**Date Name & Designation**

**Enclosures**

1. Schedule of payments *< only in case of approval >*
2. If any other

**Copy to along with enclosures**

1. Customer
2. Transmission Licensee involved in transaction.
3. Distribution Licensee involved in transaction.
4. Any other concerned.

FORMAT-ST2: APPROVAL FOR SHORT-TERM OPEN ACCESS (Page- 2 of 3)

|  |
| --- |
| FORMATS for Short-TermENCLOSURE to FORMAT- ST2 |
| **SCHEDULE OF PAYMENTS** |
| (to be enclosed for each month by SLDC along with FOMAT–ST2) |
|  |  |  |  |  |  |
|   | Nodal SLDC Approval No. | / (R-0) | Date |   |
| < ‘R-O’ states original approval with revision no. - zero> |
|  |  |  |  |  |  |
| 1  | Customer Application No. | *<as provided by customer on FORMAT-ST1>* | Date |   |
| 2  | Period of Transaction |  |
| 3  | Nature of Customer\* | *< seller/buyer/captive user/trader(on behalf of seller/buyer/captive user) >* |
| <\* In terms of power transfer> |
| 4  | Customer Name |   |
| 5  | Registration Code |   | Valid upto |   |
|  |  |  |  |  |  |
| 6  | Tentative\* Monthly Payment Schedule for Short-Term Open Access Charges( Period: *date* to *date* ) | Month |   |
|   | Payment Chargeable for | Rate (Rs./kWh) | MWh | Total (Rs.) |
| (1) Intra-State Network |   |   |   |
| (a) Transmission Charges |   |   |   |
| concerned Transmission Licensee |   |   |   |
| Intervening intra-State Licensee(if any) |   |   |   |
| (b) Wheeling Charges |   |   |   |
| concerned Distribution Licensee |   |   |   |
| Intervening intra-State Licensee(if any) |   |   |   |
| (c) Cross subsidy Surcharge |   |   |   |
| concerned Distribution Licensee |   |   |   |
| (d) Additional Surcharge |   |   |   |
| concerned Distribution Licensee |   |   |   |
| (e) SLDC Charges |   |   |   |
| SLDC |   |   |   |
| (2) Inter-State Network |   |   |   |
| Transmission Charges |   |   |   |
| Intervening inter-State Licensee(if any) |   |   |   |
| Total Monthly Payment Amount (Rs.) |   |
|  |  |  |  |  |  |
| Place  |  |  |  | Signature (with stamp) |
| Date |  |  |  |  Name & Designation |
|  |  |  |  |  |  |
| \* Tentative on the basis of MWh mentioned in application which may due to cancellation or downward revision subject to approval of Nodal Agency. |
|  |  |  |  |  |  |
| FORMAT-ST2: APPROVAL FOR SHORT-TERM OPEN ACCESS (Page -3 of 3) |

|  |
| --- |
| **FORMATS for Short-Term** |
| **FORMAT- ST3** |
| **CONGESTION INFORMATION AND INVITATION OF BIDDING** |
| **(to be invited by SLDC)** |
| SLDC Bidding Invitation No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_ |  |  |  |
|  |  |  |  |  |  |  |  |
| 1 | Customer Application No. | <as provided by customer on FORMAT-ST1> | Date |   |
| 2 | Period of Transaction |  |
| 3 | Nature of Customer | <seller/buyer/captive user/trader(on behalf of seller/buyer/captive user) > |
| <\* In terms of power transfer> |
| 4 | Customer Name |   |
| 5 | Registration Code |   | Valid upto |   |
| 6. The anticipated congestion (transformer and electric line/link) is as follow:  |
| Network Corridor  | Congestion Period | Margin/ Capacity Available | Total Capacity Applied by all the Customers |
| Sub-station with Transformation Capacity  | Electric Line/Link with Capacity  | Date | Hours |
| From | To | From | To | MW | MW |
| Intra-State Transmission System |   |   |   |   |   |   |
|   |   |   |   |   |   |
|   |   |   |   |   |   |
| Intra-State Distribution System |   |   |   |   |   |   |
|   |   |   |   |   |   |
|   |   |   |   |   |   |
| Inter-State Transmission System |   |   |   |   |   |   |
|   |   |   |   |   |   |
|   |   |   |   |   |   |
|  |  |  |  |  |  |  |  |
| 7. In view of above please submit bid on format [FORMAT-ST4]. The details for bidding are hereunder |
| (a) Bid Invitation Date |   | Time |   |
| (b) Bid Submission Date |   | Time |   |
| (c) Bid Opening Date |   | Time |   |
| (d) Bids Invited for |
| Network Corridor  | Congestion Period | Margin/Capacity Availablefor Bidding | Floor Price |
| Sub-station  | Electric Line/Link with Capacity  | Date | Hours |
| From | To | From | To | MW | Rs./kWh |
| Name of Transmission System |   |   |   |   |   |   |
|   |   |   |   |   |   |
|   |   |   |   |   |   |
| Name of Distribution System |   |   |   |   |   |   |
|   |   |   |   |   |   |
|   |   |   |   |   |   |
| 8. In case of non submission of bid, application shall be deemed to have been withdrawn and shall not be processed. |
|  |  |  |  |  |  |  |  |
| Place  |  |  |  |  |  | Signature (with stamp) |
| Date  |  |  |  |  |  | Name & Designation |
| To: Customers with their reference’s < as provided by customers at sl.no. 1 on FORMAT-ST1 > |  |  |  |
| FORMAT-ST3: CONGESTION INFORMATION AND INVITATION OF SNAP BIDS (Page -1 of 1) |
| **FORMATS for Short-Term** |
| **FORMAT- ST4** |
| **BID PROPOSAL** |
| **(to be submitted by the customer to NODAL AGENCY)** |
| **Ref: NODAL AGENCY Bidding Invitation No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
|  |  |  |  |  |  |  |  |  |
| To: **NODAL AGENCY,** |
|  |  |  |  |  |  |  |  |  |
| 1  | Customer Application No. | *<as provided by customer on FORMAT-ST1>* | Date |   |
| 2  | Period of Transaction |  |
| 3  | Nature of Customer\* | *< seller/buyer/captive user/trader(on behalf of seller/buyer/captive user) >* |
| <\* In terms of power transfer> |
| 4  | Customer Name |   |
| 5  | Registration Code |   | Valid upto |   |
|  |  |  |  |  |  |  |  |  |
| 6. In reference to above bidding invitation, I hereby submit my bid as follows: |
| Bidding Details as provided by NODAL AGENCY | Bid Priceto be Quoted by Bidder |
| Intra-State Network Corridor | Congestion Period | Margin/CapacityAvailablefor Bidding | FloorPrice |
| Sub-station | Electric Line/Link | Date | Hours |
| From | To | From | To | MW | Paise./kWh | Paise/kWh\* |
| Name of Transmission System |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |
| Name of Distribution System |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |
| < \* Bidder shall quote price (rounded-off to whole number) in denotation of floor price > |
|  |  |  |  |  |  |  |  |  |
| 7. I do hereby agree that determined bid price(s) shall be transmission and/or wheeling charges. |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Place  |  |  |  |  |  |  | Signature (with stamp) |
| Date |  |  |  |  |  |  |  Name & Designation |
|  |  |  |  |  |  |  |  |  |
| FORMAT-ST4: BID PROPOSAL (Page -1 of 1) |

|  |
| --- |
| **FORMATS for Short-Term** |
| **FORMAT- ST 5A** |

**FORM FOR THE CONSENT OF OPEN ACCESS BY DISTRIBUTION LICENSEES TO SLDC**

Memo. No: ………………………………… Date:……………………

Distribution Licensees Reference No……… Date…………………….

Name of the firm ………………………………….

Account No ………………………………….

Address of the firm ………………………………….

Open Access admissible during off peak hrs ………………………………….

Open Access admissible during peak load hrs ………………………………….

Period /Duration for Open access Consented ………………………………….

From : (Date/Time) ………………………………….

To: : (Date/Time) ………………………………….

Consent Valid up to : ………………………………….

Any other Specific Conditions for OA Consumer ………………………………….

 ………………………………….

 ………………………………….

Concerned Official/Open Access

Distribution licensees

|  |
| --- |
| FORMATS for Short-Term |
| FORMAT- ST-5B |

**SAMPLE LETTER FOR CONDITIONAL APPROVAL FOR GRANT OF SHORT TERM OPEN ACCESS**

To

M/s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Memo No. \_\_\_\_/SO/OA

 Dated:

**Sub: : Grant of Open Access for purchase/sale of power by M/s \_\_\_\_\_\_\_\_\_\_\_\_\_**

**A/C No.: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

This refers to your application received in this office on dated \_\_\_\_\_\_\_\_ for grant of Short Term Open Access for Purchase/Sale of power through Bilateral / power exchange.

The short term open access for purchase/sale of power up to \_\_\_ MW is hereby allowed , as requested by you, in line with Open Access Regulations,2005, as amended from time to time, as per agreed terms & conditions by you and subject to compliance of conditions/ formalities asunder\*: -

1. Your firm will get installed ABT compliant special energy meter of accuracy class 0.2S at your premises at your own cost in addition to TOD meter already installed as per prescribed metering guidelines and the state grid code. You will supply copies of test report of the meter from concerned official of Dist. Licensees and installation report along with site report by STU and compliance report for completion of formalities as per metering guidelines.

2. Your firm will restrict its total demand to be within its sanctioned contract demand during non-peak load hours and during peak load restriction hrs the firm will be eligible only to draw total power admissible as per peak load exemption granted by Licensees. This implies that during peak load restriction hours the total drawl from all sources will be limited to peak load exemption allowed.

3. No relaxation in monthly minimum charges, peak load exemption charges etc. shall be admissible against grant of this Open Access and you will be liable to pay all the charges as consumer of Licensees and all the charges and levies applicable on power purchased under Open Access.

4. Your firm will be liable to pay cross subsidy surcharge, additional surcharge, voltage surcharge, reactive energy charges and any other charges applicable on Open Access customers in accordance to Open Access regulations, 2005 as amended from time to time.

5. All Provisions of CERC/DERC open access Regulations as well as IEGC/State Grid

Codes shall be applicable during the duration of short term open access.

6. Your firm will restrict its power purchase under open access keeping in view the regulatory measures/power cuts imposed by Licensees on feeders supplying power to your unit. In case the scheduled power as per capacity in MW reserved for open access as per NOC / Standing Clearance / Concurrence of an embedded open access customer is curtailed or cancelled by SLDC as per Regulation 13 of DERC (Open Access) Regulations, 2005, the embedded open access customer shall immediately reduce / stop the drawl of power thro’ open access. In case the customer continues to avail power through open access corresponding to originally reserved capacity, SLDC shall suspend the NOC / Standing Clearance / Concurrence of such customer for 3 days for each day’s default. All such cases of default shall also be submitted by SLDC to the Commission.

8. In case the customer is connected to Mixed feeder, open access shall be allowed subject to the condition that the customer agree to rostering restrictions imposed by Licensees / STU on such feeders.

9. You will supply copy of the agreement signed with the traders for purchase of power through open access.

10. Your firm will ensure that this short term open access approval shall not, in any case, violate the terms and conditions of the PPA(s) signed by you with any other agency.

11. In case of Sellers / Generators / Non Consumers of Dist Licensees shall be required to furnish a security deposit towards Open Access charges for a period of two months and UI charges for 50% of contracted power for 14 days @ Rs.8.73.unit (Amounting to Rs…………………….) in the form of irrevocable (weekly for generators/sellers) revolving self-recouping Letter of Credit (LC) valid for at least 3 months beyond the period of Open Access transaction in favour of concerned agency.

12 . ………………(Any other specific condition ) imposed by SLDC/STU/Dist. Licenses

You are requested to complete the above formalities and furnish requisite documents along with acceptance to the above condition so that further necessary action on your request can be taken by this office.

This approval is subject to compliance of formalities within 60 days of issue of this letter failing which the approval will be deemed to be cancelled.

This issues with the approval of competent authority.

 Manager./Open Access,

 for: GM(SLDC),

SLDC, Delhi.

End st. No.\_\_\_/SO/OA Dated \_\_\_\_\_\_\_\_\_\_

Copy of the above is forwarded to Concerned official w.r.t. his office memo no. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ dated \_\_\_\_\_\_\_\_\_ for further necessary action.

Manager./Open Access,

 for: GM(SLDC),

 SLDC, Delhi.

CC:

Concerned Official of Distribution Licensees / STU

|  |
| --- |
| FORMATS for Short-Term |
| FORMAT- ST6 |

**UNDERTAKING TO BE FURNISHED BY THE CUSTOMER FOR SHORT TERM**

**PURCHASE/SALE OF POWER UNDER OPEN ACCESS**

*(To be stamped on Rs.100/- non judicial stamp paper)*

I/ We, …………………………….(*name)* on behalf of M/s ………………..(*name of the firm)……………………….*, A/c No…………………………having its Registered office ………………………………at (*address)* and Works at ………………………….(address)undertake as under:*-*

1. I/We will get installed ABT compliant special energy meters of accuracy class 0.2S as main meter at our premises at our own cost in addition to TOD meter already installed as consumer of Licensees& minimum, double core CT/PT's of accuracy class 0.2S/0.2 as per prescribed metering guidelines. I/ We will supply copies of test report of the meter from Licensees / STU and installation report along with site report and compliance report for completion of formalities as per guidelines.

2. I/We will restrict our total demand to be within our sanctioned contract demand during non peak load hours and during peak load restriction hrs. I / We will be eligible only to draw Total power admissible as per peak load exemption granted by Licensees. This implies that during peak load restriction hours the total drawl from all sources will be limited to peak load exemption allowed.

3. I/We will restrict our power purchase under open access keeping in view the regulatory measures/power cuts imposed by Licensees /STU on feeders supplying power to our unit. I / We agree that in case the scheduled power as per capacity in MW reserved for open access as per NOC / Standing Clearance/Concurrence is curtailed or cancelled by SLDC as per Regulation 13 of DERC (Open Access) Regulations, 2005, I/We shall immediately reduce/stop the drawl of power thro’ open access failing which SLDC may suspend the NOC/Standing Clearance/Concurrence for 3 days for each day’s default.

4. I/We agree that all equipment connected to the State Transmission/Distribution System shall be of such design and construction to enable to meet the requirement of performance standards as specified in Grid Codes for the concerned inter connection point(s). I/We shall ensure that our loads do not cause violation of these standards. Open access on the transmission system and wheeling on distribution system shall be subject to transmission and distribution system constraints. The provision of Open access shall remain suspended / curtailed during such period at the absolute discretion of SLDC / STU/Dist. Licensees.

5. I/We shall not be liable for any claim for any loss or damage whatsoever arising out of failure due to force majeure events such as fire, rebellion, mutiny, civil commotion, riot, strike, lockout, forces of nature, accident, act of God and any other reason including grid’s failure beyond the control of STU/Dist. Licensees.

6. I/We agree to rostering restrictions imposed by Dist. Licensees / STU on our feeders (Applicable only for customers connected to Mixed feeder).

7. I/We undertake that Short Term Open access to be granted or allowed to us is liable to be rejected or cancelled/withdrawn in the event of default but not limited to the following: -

i) Having being declared as insolvent or bankrupt.

ii) having defaulted in clearing outstanding dues of SLDC,ST/ist. Licensees for more than two months.

iii . Feeder status falling under ineligible category for grant of Open Access.

iv. Withdrawal of consent by Distribution Licensee

8. I/We will supply copy of the agreement signed with the traders for Sale/ Purchase of power through open access. Any change of name / agreement with the trader, advance intimation shall be given by the customer which shall be allowed subject to the prescribed business rules of the power exchange only after the grant of permission of competent authority of SLDC.

9. I/We will book the Open Access corridor on intra state and interstate transmission system and seek alterations, if required, as per Open Access Regulations and procedure(s).

10. I/We will abide by the provisions of the State Grid Code and Open Access Regulations issued by DERC& CERC, as amended from time to time.

11. I/We will operate a 24 hour control room and communicate real time power purchase data through fax / telephone to control room of SLDC as well as Concerned Dist. licensees

12. I / We understand that no relaxation in Monthly minimum charges or peak load exemption charges as consumer of Concerned Dist licensees is admissible to us for purchase of power under Open Access.

13 I/We shall keep STU and SLDC indemnified at all times and shall undertake to indemnify, defend and keep STU and SLDC harmless from any and all damages, losses, claims and actions including those relating to injury to or death of any person or damage to property, demands, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from open access transaction

14. I/We will be liable to pay cross subsidy surcharge, Additional surcharge, voltage surcharge, reactive energy charges and any other charges applicable on Open Access customers in accordance to DERC Open Access regulations, 2005, as amended from time to time.

15. In case any difference in wheeling, transmission, operating or any other charges remitted by the power exchange and actual applicable charges, SLDC/STU/Dist. Licensees reserves the right to charge the difference in bill raised to the customer. I/We undertake to pay the total bill including these charges.

16. I/We will make all payments associated with Short Term Open Access to the concerned office SLDC/STU/Dist. licensees remitted only by Bank Draft or RTGS / NEFT in favour of concerned Official/SLDC payable at Delhi up to 4.00 P.M on working days. After due date I/we agree to pay LPS (Late payment surcharge) @ 1.25% per month or part thereof on total amount of the bill. In case of non-payment of dues Nodal Agency reserves the right to cancel NOC for Open Access.

17. I/We will bear the transmission and distribution losses for the Intra-State/ Inter-State system, as notified by the State/Central Electricity Regulatory Commission (DERC/CERC) from time to time.

18. Any taxes / levies applicable on Open Access transaction as imposed by Central and State Governments from time to time shall be borne by me/us.

20. I/We will apply for Standing Clearance/ No Objection Certificate / Concurrence / Consent for purchase of power through Power Exchange or through bilateral agreement minimum 3 working days before the commencement of deemed date of purchase of power through Power Exchange. I/We have noted that Standing Clearance will be allowed by SLDC maximum upto one month.

21. I/We agree to provide and meet with all metering, protection and communication requirements, as specified by the Commission /STU/SLDC/Licensees from time to time.

22. I/We may surrender the capacity allotted to me/us by serving a notice to Licensees / RLDC as per DERC/CERC regulations, if I/We are unable or not in position to utilize the full or substantial part of the capacity allotted tome/us. In case our capacity has been reduced or cancelled or surrendered, I/We shall bear Open Access charges as per prevalent CERC/DERC open access regulations.

23. I/We undertake to co-ordinate with concerned officials of SLDC/Licensees to ensure meter data reading/downloading as per fixed schedule

24. I/We undertake to maintain grid discipline and ensure the energy drawls as per the energy scheduled at the delivery point.

25. I/We agree that the disputes and complaints regarding metering and billing etc. will be first referred to the Commercial and Metering Committee under the State Grid Code. The Committee shall investigate and endeavor to resolve the grievance and in case of its non re-dressal within stipulated period or any dispute it shall be referred to the commission

26. I/We agree that SLDC/Distribution Licensees reserves their right to amend the above terms and conditions within the prescribed Regulatory framework.

Authorized Signatory

 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Place: Designation:

Date: Seal:

Note:

1. The undertaking is to be signed by the applicant/consumer on each and every page. Two set of the undertaking are to be furnished to this office. One copy will be retained in the office of SLDC and second copy will be supplied to Distribution Licensees while operationalising the Open Access.

ii) Copy of company/Board resolution or authority letter in favour of authorized signatory to be attached.

|  |
| --- |
| **FORMATS for Short-Term** |
| **FORMAT- ST-7A** |

**Format of Application for Registration with SLDC as user of intra-state Transmission System**

**(for generator)**

Sr.No. Particulars Applicant’s Details

1 Name of the Generating Company ………………………………….

2 Address of the Generating Company/ ………………………………….

Authorized Person

Name : ………………………………….

Designation : ………………………………….

Address : ………………………………….

Contact Details :

Office No : 1) …………………………2) ………………………………….

Fax No. : ………………………………….

Mobile No : ………………………………….

Email ID : ………………………………….

3 Location of the Generating Station ………………………………….

4 Location of Interface with Grid ………………………………

(Enclose a layout of switch yard)

5 Total Installed Capacity ………………………………….

6 Commercial Operation Date (COD) ………………………………….

Of the Generating station

7 Nature of use of Energy Supply to Licensees ……………………………

/wheeling to 3rd parties /wheeling for captive use

8 Transmission capacity contracted as on (Please enclose details of Licensees)

(a) For supply to Licensees …………………………….

(b) For wheeling to 3rd parties ……………………………

(c)For wheeling for captive use …………………………….

9 Agreement period for supply to licensees …………………………….

10 Details of communication system installed for ……………………………

communication of data to SLDC

11 Establishment in-charge of control room for …………………………….

communication with SLDC

12 Details of Registration fee paid ……………………………

13 Any other information useful for assisting .………………………….

efficient Grid Operation (Please enclose separate

sheets for additional information )

Signature of the Authorized Officer

FORMAT-ST7-A: APPROVAL FOR SHORT-TERM OPEN ACCESS (Page -1 of 1)

|  |
| --- |
| **FORMATS for Short-Term** |
| **FORMAT- ST-7B** |

**Format of Application for Registration with SLDC as user of intra-state Transmission System**

(For Open Access Customer)

Sr.No. Particulars Applicant’s Details

1 Name of the Open Access Customer ………………………………….

2 Address of the Open Access Customer ………………………………….

Authorized Person

Name : ………………………………….

Designation : ………………………………….

Address : ………………………………….

Contact Details :

Office No : 1) …………………2) ………………………………

Fax No. : ………………………………….

Mobile No : ………………………………….

Email ID : ………………………………….

3 Location of Interface with Grid (Attach a list of voltage-wise Grid substations/lines along with details of location, capacity, No. of bays, line length, type of line, date of commissioning etc )

4 Total capacity (Max. Demand that can be served)

5 Transmission capacity contracted from Transmission Licensees (Enclose list of

Transmission Licensees with details)

6 Capacity contracted to Open Access consumers.

7 Details of communication system available for communication of data to SLDC / ALDC (Enclose substation-wise details)

8 Designation of the personnel responsible for operation of Grid substations at which Open Access Customer is connected.

9 Details of the registration fee paid

10 Any other information useful for assisting efficient Grid Operation:

(Please enclose separate sheets for additional information)

Signature of the Authorized Officer

FORMAT-ST 7-B: APPROVAL FOR SHORT-TERM OPEN ACCESS (Page -1 of 1)

|  |
| --- |
| FORMATS for Short-Term |
| FORMAT- ST-8 |

**FORMAT FOR THE UNCONDITIONAL AND IRRECOVABLE BANK GURANTEE FOR BILATERAL TRANSACTION / COLLECTIVE TRANSACTION**

*(To be stamped on Rs.100/- non judicial stamp paper)*

Whereas M/s. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(*Name of the Intra State Company),* a Company registered under the Companies Act, 1956 and having Registered Office at \_\_\_\_\_\_\_\_*(Address)*, hereinafter called the `Intra State Company’ submitted open access application for intending bilateral transaction / collective transaction, inter alia for sale / trade of power of \_\_\_MW on short term basis to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (*Name of Trader / Buyer)* through Inter State / Intra State Open Access as per applicable relevant regulation issued by appropriate Regulatory Commission and procedure devised by the State Transmission Utility, Delhi Transco Ltd for Short Term Open Access in intra State network in the State of Delhi (*Name of State)* in the condition which inter alia are subject matter of the application of short term transaction herein referred, agrees to furnish this Bank Guarantee for an amount of Rs. \_\_\_\_\_\_\_*(in figures)* Rs.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(i*n words)* equivalent to seven days billing for scheduled energy either receivable or payable determined based on quantum of sale / trade intend to scheduled through this open access transaction at rate of 105% of maximum unscheduled interchange rate applicable and equivalent to seven days of a week.

We, \_\_\_\_\_\_\_\_\_\_\_\_\_(*Name of the Bank)* Bank, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(*Branch, City)* Branch hereinafter called `The Bank’ in consideration of the premises, do hereby agrees unequivocally, irrevocably and unconditionally to pay the State Load Dispatch Center or concerned Distribution Licensees from the customer as the case may be or (the Distribution consumer), the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Forthwith on demand in writing from procurer or any officer authorized by it in this behalf at any time upto \_\_\_\_\_\_\_\_\_\_\_\_\_ *(date up to Open Access transaction + two additional months),* any amount upto and not exceeding Rupees \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *(in words)* only as may be claimed by State Load Dispatch Center, Delhi by way of failure of the Open Access Customer to pay any charges within stipulated time limit towards obligation laid down under Short Term Open Access approval granted.

It is hereby agreed and acknowledge that the decision of the State Load Dispatch Center or (the Distribution company), the Generating company as the case may be, as to whether any money is payable by the Open Access Customer or whether the Open Access Customer has made any such default of defaults as aforesaid and the amount or amounts to which the State Load Dispatch Center is entitled to by reason thereof will be binding on the Bank and the Bank shall not be entitled to ask the State Load Dispatch Center to establish its claim or claims under this Guarantee or to claim any such amount from the company in the first instance but shall pay the same to the State Load Dispatch Centre of Delhi forthwith on demand without any demur, reservation, recourse, contest or protest and / or without any reference to the intrastate company. Any such demand made by the State Load Dispatch Center on the Bank shall be conclusive and binding notwithstanding any difference between the State Load Dispatch Center and the Intrastate company or bank and Intrastate Company or pay dispute pending before any Court, Tribunal, Arbitrator or any other authority.

The Bank further undertake not to revoke this Guarantee during its currency except with the previous consent of the State Load Dispatch Center of Delhi in writing and this Guarantee shall continue to be enforceable till the aforesaid date of its expiry or the last date of the extended period agreed upon as the case may be unless during the currency of the Guarantee all the dues of the State Load Dispatch Center under or by virtue of Open Access approval granted by SLDC of the letter of approval and subsequent accounting statement issued to intrastate company have been duly paid and its claims satisfied or discharge or the State Load Dispatch Center of Delhi certifies that the terms and conditions of said letter of open access approval and subsequent accounting statement issued by State Load Dispatch Center have been fully carried out by the intrastate company and accordingly discharged the Guarantee.

Subject to the maximum limit of the Bank’s liability as aforesaid, this Guarantee shall cover all claim or claims of the State Load Dispatch Center against the Intrastate company from time to time arising out or under condition stipulated under the said letter of Short Term Open Access approval and Charges payable in exercise of said approval of Short Tem Open Access and in respect of which the State Load Dispatch Center Delhi demand or notice in writing be served on the Bank before the date of expire of this Guarantee mentioned above or of further extended period agreed upon, as the case may be.

The Guarantee shall not be affected by any change in the constitution of the said Intrastate Company in any manner by reason or merger, amalgamation, restructuring or any extension or forbearance to the Intrastate Company or any other change in the constitution of the Guarantor and the Bank will ensure for and be available to and guarantee enforceable by the State Load Dispatch Center of Delhi.

The Guarantee shall be a primary obligation of the Guarantor Bank and accordingly procurer shall not be obliged before enforcing this bank guarantee to take any action in any court or arbitral proceedings against the Intrastate Company, to make any claim against or any demand on the Intrastate Company or to give notice to the Intrastate Company to enforce any security held by the procurer or to exercise, levy or enforce any distress, diligence or other process against the Intrastate Company. The bank guarantee shall be interpreted in accordance with the laws of India and settlement of any dispute arisen between the parties shall be subjected to the legal jurisdiction of Delhi.

And whereas in case violation of the terms of the Bank Guarantee, penalty will be levied on the claimed amount as per the bank’s penalty rates. It will not be opened to the Intrastate Company to challenge the said clause on any ground whatsoever including formation of opinion but default as to the amount guarantee or part thereof remaining payable under the contract and such opinion of State Load Dispatch Center of Delhi shall be final and binding thereof for the purpose of invocations of this Bank Guarantee.

Notwithstanding anything contained herein:-

1 Our liability under this Bank Guarantee shall not exceed Rs.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*(In Figures)* (Rupees \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) (*in words)*

*2* This Bank Guarantee shall be valid till \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(*date to be inserted as per approval of Open Access transaction allowed by SLDC with an additional claim period of 60days thereafter).*

3 We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if procurer serve upon us a written claim or demand on or before \_\_\_\_\_\_\_\_\_\_\_

The Bank has power to issue this Bank Guarantee under the statute and the undersigned has full power to sign this Guarantee on behalf o Bank.

Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Power of Attorney No.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

For \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (name of bank)

Witness (two authorized officers of the Bank with name, designation and employee number)

1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Procedure for Long-Term Open Access**

**1. OUTLINE**

1.1 This procedure shall apply to the application made for long-term open access for a period of more than five years as per principal regulation 2005 clause 7(2) for use of intra-State transmission system and/or distribution system with associated facilities for transmission and/or wheeling of electricity, with or without inter-State transmission system.

Provided that procedure made hereunder shall be in addition to and not in derogation to open access regulations or any procedure made there under by the Central Electricity Regulatory Commission for use of inter-State transmission system.

1.2 All correspondences shall be addressed to the following Officer of State Transmission Utility (STU): General Manager (Planning),DTL, E-mail: *(STU to specify on its website)*

**2. GRANT OF OPEN ACCESS**

**2.1 SUBMISSION OF APPLICATION**

2.1.1 The long-term open access customer (hereinafter referred to as “customer”),intending to avail long-term access shall make an application on format *[FORMATLT1]* with STU in a cover marked “Application for Long-Term Open Access”.

2.1.2 In case electricity system strengthening is involved, the customer shall apply for long-term access 2 to 4 years in advance (based on nature and quantum of work involved). If, system strengthening is not required, an application can be made by the customer one year in advance.

Note: ‘System strengthening’ shall mean to include augmentation or renovation or modernization or expansion of any equipment or sub station and/or electric line and construction of new substation and/or electric line.

2.1.3 In case in the opinion of the customer, system strengthening is not involved, he shall normally request STU for necessary actions or studies, however, such request is not mandatory and STU may take necessary action even in absence of such request.

2.1.4 The application shall be accompanied by non-refundable processing application fee of Rs.1,00,000/- & Rs. 25000/- for Distribution System (or as determined by the Commission from time to time by an order) by demand draft in favour of STU/Dist. Licensees payable at Delhi.

2.1.5 STU shall acknowledge receipt of the application by indicating time and date on an *“ACKNOWLEDGEMENT”* to the customer.

2.1.6 The application may be submitted by post or in person.

**2.2 PROCESSING OF APPLICATION**

2.2.1 The application shall be taken up for consideration immediately but not later than seven days by STU on first come first served basis and it shall seek system feasibility reports from transmission licensee and/or distribution licensee involved in transaction for permitting open access. STU shall also make endorsement of the same to SLDC, if considered necessary.

2.2.2 The transmission licensee and/or distribution licensee, as the case may be, shall carry out system feasibility study within thirty days. The licensee’s reports shall invariably include site drawings, schedule of site responsibility and any other information necessary for consideration of STU. The feasibility reports may suggest that:

(a) System strengthening is not required. In such case STU / Distribution Licensees shall assess the capacity available and communicate provisional decision to SLDC with copy to STU/Distribution licensee, as the case may be, and thereafter follow provisions of sub-clause 2.3.1.

(b) There is a constraint in electricity system and system strengthening is necessary. The licensee shall submit adequate data and drawings in support of suggestion of system strengthening for consideration of STU.

2.2.3 STU shall assess requirement of system strengthening, under sub-clause 2.2.2(b), and on being satisfied, communicate decision to the customer within fifteen days requiring him to pay fee difference of fee for system studies, if not paid earlier under sub-clause 2.1.4. The fee shall be paid within fifteen days failing which the application shall be deemed rejected at the discretion of STU. STU may also cause the customer to furnish any additional information required for system studies and thereafter follow provisions of sub-clause 2.3.2. If the opinion is that system strengthening is not required, STU may seek clarification or additional information from such licensee and/or the customer and reassess the requirement of system strengthening. On final decision that system strengthening is not required, the matter shall be decided under sub-clause

**2.3 CONFIRMATION OF RESERVATION OF CAPACITY**

**2.3.1 Where electricity system strengthening is not required**

(i) STU shall communicate provisional decision, under sub-clause 2.2.2(a) to SLDC within seven days along with the customer’s application and licensee’s report(s).

(ii) STU, in consultation with SLDC, shall check transaction for congestion of any element (electric line and transformer) of transmission and/or distribution system involved in open access transaction.

(iii) STU shall confirm grant of open access on format *[FORMAT-LT2]* within Sixty days of receipt of the application with direction to the customer to enter into Bulk Power Transmission Agreement (BPTA) and/or Bulk Power Wheeling Agreement (BPWA) with concerned transmission licensee and/or distribution licensee within thirty days.

(iv) STU shall not permit open access if transaction may cause congestion of any element of involved transmission and/or distribution system.

(v) In the event of an offer becomes invalid for any reason or rejected by the customer, STU shall not be required to consider any further application from the same customer within twelve months from the date of issue of *FORMAT-LT2* unless new application substantially different from the original application is made.

**2.3.2 Where electricity system strengthening is involved**

(i) STU shall carry out studies to assess requirement of system strengthening and may require the customer, any other transmission licensee and/or distribution licensee to furnish additional information/study/data for further studies within fifteen days. They shall submit information to STU within a month. Based on above information, STU shall prepare preliminary report of system study covering all aspects of Delhi EGC and communicate the same to all concerned within next two month.

Provided that if there are more than one application for long-term access, STU shall undertake joint studies and prepare one consolidated preliminary report. STU shall invariably send a copy to SLDC,/Distribution licensees, as the case may be.

(ii) The preliminary report shall be communicated along with specific information on *FORMAT- LT2* to all concerned not later than sixty days fromthe date of receipt of application and such communication shall be deemed tobe grant of open access. However in case of more than one application, thecondition of Sixty days shall not apply and STU shall fix suchdate which shall not be more than one hundred fifty days.

The customer shall enter into Bulk Power Transmission Agreement (BPTA) and/or Bulk Power Wheeling Agreement (BPWA) with concerned transmission licensee and/ or distribution licensee within sixty days and the copy of such agreements shall be sent to SLDC.

(iii) Notwithstanding anything contained in sub-clause 2.3.2(i), any other transmission licensee and / or distribution licensee shall also be required by STU to identify system strengthening requirements at their end and communicate the same to STU with relevant details in respect to inter-connection, cost estimates, construction milestones / schedule and site responsibility schedule, drawings and any other information as may be necessary for consideration of STU within forty five days from the date of receipt of preliminary report of system study under sub-clause 2.3.2(i).

(iv) The requirement of system strengthening brought out in preliminary report shall be integrated with the transmission plan with the provisions of Delhi EGC. The plan so prepared shall be approved by CEA in its standing committee meeting of Power System planning. .

(v) Based on approved transmission plan, STU shall finalize strengthening requirements in transmission and distribution systems, in consultation with SLDC and concerned Transmission and/or Distribution licensees as the need be.

System strengthening requirements should clearly identify expansion, augmentation, renovation, modernization of existing sub-stations and/or electric lines and/or construction of new substations and electric lines. It also includes decision regarding who will construct, own, maintain and operate different parts of the system strengthening scheme.

The final report shall be communicated to all concerned to take up the work of the system strengthening as per the schedules finalized or decisions taken therein.

(vi) After final report is prepared, the customer, STU, any other transmission licensee and distribution licensee or any other person associated with transaction shall comply with such instructions, obligations, duties, time schedules or any other matter as may be specified by STU in final report.

Provided that STU has not changed system strengthening requirements on the basis of any subsequent study carried out on its own motion or on an application of any other customer, any other transmission licensee and distribution licensee and in such event, the changes carried out by STU shall be binding on the customer, any other transmission licensee and distribution licensee or any other person associated with transaction.

**3. Bulk Power Transmission Agreement (BPTA) and/or Bulk Power Wheeling**

**Agreement (BPWA)**

3.1 Bulk Power Transmission Agreement (BPTA) and/or Bulk Power Wheeling Agreement (BPWA) shall be signed by the customer with STU, any other transmission licensee and distribution licensee, as the case be, agreeing therein to pay transmission and wheeling charges for use of existing transmission and/or distribution system. These agreements shall be signed within time communicated to the customer under sub-clause 2.3.1(iii) or under sub-clause 2.3.2(ii).

3.2 A supplementary BPTA and/or BPWA to the principal agreements signed under clause 3.1 shall also be signed by the customer with STU, any other transmission licensees and distribution licensees, as the case be, agreeing therein to pay additional transmission and wheeling charges for use of additional transmission and/or distribution system created due to system strengthening. These agreements shall be signed within period specified by STU under sub-clause 2.3.2(vi).

3.3 At the instance of STU, agreements shall include provisions in respect to :

(a) requirement of protection system, metering, operational and safety criteria,

data and communication system;

(b) conditions of interconnection/connectivity, technical requirements thereof;

(c) relevant drawings covering all aspects in relation to (a) and (b) above;

(d) ‘Site Responsibility Schedule’ in relation to ownership, control, operation and maintenance of plant and apparatus and safety of persons;

(e) procedure for site access, site operational activities and maintenance standards for equipment of concerned transmission licensee and/or distribution licensee and/or customer’s premises;

(f) premature termination of agreement and its consequences on the contracting parties;

(g) compliance with the provisions of Delhi Electricity Grid Code, Indian Electricity Grid Code, regulations / norms / standards / codes specified by CEA / DERC or any provision of planning criteria / any covenants / deeds / regulations by which STU / Transmission licensee /distribution licensee are bound;

(h) details of system strengthening requirements including inter-connection, approximate cost estimates, construction and commissioning milestones / schedule, schedule of commissioning and commercial operationalization;

(i) provisions for payment security, payment, rebate and surcharge as per DERC (Terms and condition of transmission tariff) Regulations and DERC (Terms and condition of distribution tariff) Regulations and orders of the Commission made there under;

(j) Any other relevant necessary information.

3.4 For execution of work where electricity system strengthening is involved, the parties should note the following:

(i) System strengthening work shall be taken up after signing of BPTA and/or BPWA under clause 3.1 and 3.2.

(ii) The customer and concerned licensees shall furnish progress of system strengthening works on quarterly basis to each other with a copy to STU/SLDC.

(iii) The customer and concerned licensees shall inform, in writing, at least ninety days ahead of schedule, commercial operation date of additional systems of their part to STU with a copy to concerned/affected persons.

(iv) Based on information received under sub-clause 3.4(iii), STU shall confirm the customer and concerned licensees at least sixty days ahead of scheduled date of commencement of long-term transaction and directed the customer to:

(a) establish adequate payment security within thirty days; and

(b) submit a request for scheduling of transaction to SLDC within thirty days.

3.5 Whenever any equipment and/or drawing are proposed to be changed, the customer or licensee shall intimate necessary changes to STU and all other concerned. When changes are implemented, revised single line diagram shall be circulated by the customer or licensee to STU and all concerned.

**4. SCHEDULING AND REVISION OF SCHEDULES**

4.1 Open access transaction shall be carried out under the provisions of DERC Order dated 31.03.07 passed in matter of Availability Based Tariff and any other order passed from time to time, read with Delhi Electricity Grid Code, Indian Electricity Grid Code, DERC (Terms and Conditions of Generation/Transmission tariff) Regulations and any other relevant regulation/order/code, as the case may be, and as amended and applicable from time to time.

Provided that customer, having premises in area of a distribution licensee, contracts for supply of electricity from such distribution licensee in addition to supplies from other source; energy accounting of electricity supplied from other source shall be carried out first and electricity supplied from such distribution licensee later. In case other source is more than one, the source that comes into open access transactions first, in chronological order of dates of approval of nodal agency, shall be booked for energy accounting first and thereafter subsequent sources shall be taken up until all are exhausted and supply from distribution licensee shall be at last.

**5. COMMERCIAL CONDITIONS**

5.1 SLDC shall issue an energy account, statement of UI and corresponding UI charges and reactive energy and its charges, on the basis of data received from ABT meters along with data relating to declared capability and schedules etc., in accordance with the provisions of DERC Order dated 31.03.07 (the ABT Order) passed in matter of Availability Based Tariff and as amended from time to time.

5.2 Energy account prepared by SLDC shall be used for billing purposes.

5.3 The customer shall pay a fee to SLDC as specified in DERC (Procedure, terms and conditions for payment of fee & charges to State Load Despatch Centre and other related provisions) Regulations and amendment thereof.

5.4 The customer shall make payments in the following manner:

(i) STU, any other transmission licensee and/or distribution licensee, as the case be, shall prepare a bill on monthly basis as per energy account issued by SLDC on the basis of transmission charges, wheeling charges determined by the Commission from time to time. Surcharge and additional surcharge, if any, shall also be recovered through such bill.

(ii) The customer shall pay charges directly to STU, any other transmission licensee and / or distribution licensee, as the case be, within time provided in BPTA and/or BPWA or in relevant order of the Commission.

(iii) The payment shall be made by mode agreed in BPTA and/or BPWA.

(iv) The SLDC charges shall be recovered from the customer through bill directly raised by SLDC to Customer on monthly basis.

**(v)** Cross Subsidy Surcharge shall be leviable as determined by the Commission in its Order /Tariff Order which shall be payable to Distribution Licensee on per unit basis by the open access customers (except those availing power from their captive power plants) based on the actual energy consumed during the month through open access.

**(vi)** Additional surcharge will be applicable as determined by the Commission as per Regulation 12 of DERC (Open Access) Regulations, 2005 as amended from time to time.

**(vii)** The payment for the reactive energy charges for the Open Access customers shall be calculated in accordance with DERC (Terms and Conditions for Determination of Generation, Transmission, Wheeling and Retail Supply Tariff) Regulations approved by the Commission. Provided that no additional power factor surcharge / incentive shall be leviable on the energy drawn through open access. These charges are to be recovered by concerned Licensee.

viii) In cases of outages of generator supplying to open access customer under open access, standby arrangements should be provided by the distribution licensee for a maximum period of 42 days in a year, subject to the load shedding as is applicable to the embedded consumer of the licensee and the licensee shall be entitled to collect tariff under Temporary rate of charge for that category of consumer in the prevailing rate schedule.

Provided also that open access customers would have the option to arrange standby power from any other source. Standby charges would be applicable from 00.00Hrs after the 24 hrs of serving the notice by Open Access Customer till that time customer have to pay the charges as per UI rate for drawal plus Rs 1/unit for that energy to distribution licensees. The Standby Charges for the power availed by the Open Access Customer beyond the notice period would be paid to Distribution company, similarly, placed consumers of Discoms availing temporary connection the Distribution Company

**(ix)** In addition to the above charges, the Utilities who are authorized to installed meters for Open Access Customer are entitled to recover charges from the customer as under:-

a) Estimated cost of ABT Meter with AMR facility =Rs.50000/-

b) Estimated expenditure involves in testing /installation/commissioning of Energy Meter=Rs.20000/-

c) Estimated expenditure for data downloading of Energy Meter per visit=Rs.2500/-

**The above rates /expenditure are without VAT/Service Tax if any applicable.**

**NOTE**-Procurement/installation of CT/PT /Metering Cubicle & its wiring upto the terminal block to be arranged by the customer.

5.5 Based on energy account, the customer shall make payments of Unscheduled Interchange (UI) Charges as provided under ABT Order and at rates of UI specified by the Central Electricity Regulatory Commission. However, in case of captive users and the customer other than a distribution licensee, the following provision shall apply:

(a) For Captive generating plant supplying electricity to its captive user connected or not connected with grid and a consumer, such captive user or a consumer shall ensure to draw power as per schedule during each 15-minute time block. The drawal more than schedule shall be considered as ‘back up supply’ (‘back up charges’ shall be constituted accordingly) to such captive generating plant or its captive user or consumer from distribution licensee of his area. Such over drawal shall be charged at frequency linked rate 25% higher than UI rate specified by CERC form time to time.

(b) Above charges shall be without prejudice to penalty which may be imposed by the Commission, for non-compliance of the provision of the Act, regulation or code or order made there under, on recommendation of SLDC.

(c) The billing of the ‘back up charges’, under sub-para (a) above, shall be carried out with the billing of UI charges.

5.6 Reactive Energy Charges associated with transaction shall be paid as per the provision of Delhi Electricity Grid Code or ABT Order or otherwise specified by the Commission by an Order.

5.7 Non-payment of any charge or sum of money payable by the customer under the Regulations shall be considered non-compliance of the Regulations and Section 56 of the Act, the generating company or STU or any other transmission licensee or a distribution licensee may disconnect supply after giving customer an advance notice of fifteen days without prejudice to his right to recover such charges by suit.

Provided that non-payment or delayed payment of UI bill shall be considered as default on part of customer and for such continued defaults, STU/SLDC may bring a case before the Commission for non-compliance of the Regulations under Section 142 of the Electricity Act, 2003.

**5.8 Payment Security Mechanism**

1 In case of Long term Open Access , the applicant for open access will open an irrevocable and revolving Bank Guarantee in favour of the Transmission / Distribution Licensee responsible for collection of applicable charges for the estimated amount of various charges for a period of two months as per prescribe Format LT-8.

2 Payment security mechanism specified above is intended to ensure recovery of the applicable payment in case of payment default and not as a mechanism for regular payments.

3) The Bank Guarantee shall be opened in a Scheduled Bank mutually agreed between customer and the concerned Licensees.

4) The Bank Guarantee shall be valid for at least three months beyond the entire duration of the transaction.

5) The Bank Guarantee shall be opened before commencement of Open Access transaction.

6) The Bank Guarantee shall be operated by the Licensees in case of default in payment.

7) All costs / expenses / charges associated with Bank Guarantee shall be borne by the applicant / customer.

**6. METERING**

6.1 Metering arrangements shall be guided by the chapter VI clause 33 of DEGC.

6.2 All other matters which are not covered in Regulation regarding type, standards, ownership, location, accuracy class, installation, operation, testing and maintenance, access, sealing, safety, meter reading and recording, meter failure or discrepancies, anti tampering features, quality assurance, calibration and periodical testing of meters, additional meters and adoption of new technologies etc. shall be governed by the Central Electricity Authority (Installation and Operation of Meters) Regulations, Delhi Electricity Grid Code and amendments thereof.

**7. ENERGY LOSS**

7.1 Energy loss, estimated by SLDC for State transmission and by the Commission for distribution systems, shall be apportioned for all transactions (long-term and short-term transactions).

**8. TRANSMISSION AND DISTRIBUTION SYSTEM CONSTRAINTS**

8.1 When for the reason of constraints or to maintain grid security, it becomes necessary to curtail power flow on transmission and/or distribution corridor, the transaction already reserved / scheduled may be curtailed by SLDC, if in its opinion such curtailment is likely to relieve transmission and/or distribution constraint or is likely to improve grid security.

8.2 In case of curtailment becoming necessary as result of deviation by the customer from final despatch and drawal schedule intimated to SLDC, the use of such intra-State system shall be curtailed first, to the full extent of such deviation, following which the principle specified in following clause 8.3 shall apply.

8.3 When because of transmission and/or distribution systems constraint or otherwise, it becomes necessary to curtail the transmission and/or distribution services, curtailment shall be affected in the following order:

(i) Other captive power plant

(ii) Other generating company

(iii) Other distribution licensee

(iv) Existing captive power plant

(v) Existing generating company

(vi) Existing distribution licensee

“Existing” means that existing prior to the date of publication of DERC (Terms and Conditions for Open Access) Regulations, 2005.

8.4 Notwithstanding the provisions of the Regulations, SLDC may, in cases of emergency and in order to maintain system security, follow such other principles of curtailment of use as it considers appropriate.

8.5 In case of curtailment of capacity by SLDC, transmission charges and/or wheeling charges payable shall remain unaffected.

8.6 In case of a force majeure, as determined and notified by SLDC, any schedule transaction may be curtailed or suspended at sole discretion of SLDC and its decision shall be final and binding, and under such event, transmission charge and/or wheeling charge, payable by any user of transmission and/or distribution system, shall remain unaffected.

**9. GENERAL**

9.1 STU shall designate an officer as ‘Nodal Officer’ who shall make correspondence in the matter of open access and be responsible for processing and arranging long term access.

9.2 SLDC shall maintain up-to-date records of customers, long-term transactions and any other relevant information/data and other decisions taken by it on its web-site

9.3 STU / SLDC may modify formats specified under this procedure as the need be under intimation to the Commission. These formats shall also be kept on web-site.

9.4 STU, SLDC, any other transmission licensee, distribution licensee, generating company (generating station, captive generating plant, non-conventional sources of energy) or any other person supplying electricity within the State, trader and open access consumer shall comply with the Electricity Act, 03 and the following orders, regulations and codes as amended from time to time and as applicable.

9.5 The customer shall keep STU and SLDC indemnified at all times and shall undertake to indemnify, defend and keep STU and SLDC harmless from any and all damages, losses, claims and actions including those relating to injury to or death of any person or damage to property, demands, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from open access transaction.

9.6 All complaints regarding unfair practices, delays, discrimination, lack of information, supply of wrong information or any other matter related to Long Term Open Access in intra-State transmission shall be directed to the Chairman, Commercial Sub Committee. In case the committee is unable to resolve the matter, it shall be reported to the GCC / Commission for a decision.

9.8 An application involving inter-State transaction shall be governed by the regulations issued by the Central Electricity Regulatory Commission (CERC).

|  |
| --- |
| Formats for LONG-Term |
| **FORMAT - LT1** |
| **APPLICATION FOR GRANT OF LONG-TERM OPEN ACCESS** |
|  |  | *( to be sent by customer to STU)* |  |  |
| **To: GM (Planning),DTL** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 1 | Customer Application No: | *<self generated by Customer>* | Date: |   |
| 2 | Name of Customer |  |
| 3 | Nature of Customer\* | *< seller/buyer/captive user/trader (on behalf of seller/buyer/captive user >* |
| 4 | Trading License No & type |  |
| *<\* In terms of power transfer>* |  |  |  |  |  |  |
| 5 | Period of Open Access Sought for |  |
| Proposed date/Month of Commencement of Open Access |  |
| Details of proposed Open Access |
| Date | Hours | Capacity  |
| From  | To | From | To | MW\* |
|   |   |   |   |   |   |
|   |   |   |   |
| *< MW\* at point of injection>* |  |  |  |  |
| 6 | **Electricity System Strengthening is Involved (Yes/No)** | ***< refer sub-clause 2.1.2/2.1.3 of procedure >*** |
| 7 |  **Registered Address**  | ***< if registered as per Companies Act 1956 >*** |
| 8 | **Authorised Person(s)** |  |
| **a) Prime Contact Details for the Purpose of Correspondences** |
| **Name** |  |
| **Designation** |  |
| **Phone/Mobile** | ***Residence/Office*** |
| **Fax No** |  |
| **Email** |  |
| **(b) Alternate Contact Details** |
| **Name** |  |
| **Designation** |  |
| **Phone/Mobile** | ***Residence/Office*** |
| **Fax No** |  |
| **Email** |  |
| 9 | Details of PPA/PSA/MoU |
| Name & Address of parties | Date ofPPA/PSA/MoU | Validity Period | CapacityMW\* |
| Seller | Buyer | Commencement | Expiry |
|  |  |  |  |   |  |

*< MW\* at point of injection>*

|  |  |
| --- | --- |
| 10 | Details of Non-Refundable Application Fee Made |
| Bank Details | Instrument Details | Amount(Rs.) |
| Type(Draft/Cash) | Instrument No. | Date |
|   |   |   |   |   |
| 11 | Involvement of Grid System during Transaction | Injecting Entity | Drawee Entity |
| (a)Intra State Transmission Network(Yes/NO) |  |  |
| (b)Intra State Distribution Network(Yes/NO) |  |  |
| (c ) Inter State Transmission Network(Yes/NO) |  |  |

|  |  |
| --- | --- |
| 12 | Details of Injecting Entity |
| 1)Name |  |
| 2)Status(in terms of Ownership) | <State utility/CPP/IPP/Discom/ consumer/ specify, if any other> |
| 3) Whether existing or New Entity |  |
| 4) Utility in which it is Embedded |  |
| 5) Whether Existing Long-term Customer | <yes/No> |
| 6)Open Access Requirement Of Entity |  |
| (i)Existing Capacity in Use(Contracted) |  |
| (ii)Open Access Capacity sought for |  |
| (iii)Total Capacity(i+ii)(MW) |  |
| 7) Point of Grid connectivity | < existing/proposed > |
| (i) Name of Sub-Station |  |
| (ii)Voltage level of Injection |  |
| (iii)Name of Licensee(owner of S/S) |  |
| 8) ABT Interface Metering\* |  |
| 1. Type
 |  |
| 1. Make
 |  |
| 1. Rating
 |  |
| 9) Other relevant information to support processing of application |
| 10) other information as notified by STUon its Web-site |
| <\*Only in case if system strengthening is not involved and enclose supporting documents duly signed on each page> |
| 13 | Details of Drawee Entity |
| 1)Name |  |
| 2)Status(in terms of Ownership) | <State utility/CPP/IPP/Discom/consumer/specify, if any other> |
| 3) Whether existing or New Entity |  |
| 4) Utility in which it is Embedded |  |
| 5) Whether Existing Long-term Customer | <yes/No> |
| 6)Open Access Requirement Of Entity |  |
| (i)Existing Capacity in Use(Contracted) |  |
| (ii)Open Access Capacity sought for |  |
| (iii)Total Capacity(i+ii)(MW) |  |
| 7) Point of Grid connectivity | < existing/proposed > |
| (i) Name of Sub-Station |  |
| (ii)Voltage level of Injection |  |
| (iii)Name of Licensee(owner of S/S) |  |
| 8) ABT Interface Metering\* |  |
| 1. Type
 |  |
| 1. Make
 |  |
| 1. Rating
 |  |
| 9) Other relevant information to support processing of application |
| 10) other information as notified by STUon its Web-site |
| <\*Only in case if system strengthening is not involved and enclose supporting documents duly signed on each page> |

|  |  |
| --- | --- |
| 14 | In case of Generating Station (Existing/Extension of Existing Station) |
| Existing Details of Station |
| 1)Name |  |
| 2)Name of promoter |  |
| 3) Location |  |
| 4) Generation Capacity |  |
| 5) Details of Units with Capacity in MW |  |
| 6)Type | <Thermal/Non-conventional / specify if any other> |
| 7) Fuel |  |
| 8)Previous Three Year generation in MUs |  |
| 9) Whether Captive Plant | <Yes/no, if yes F.Y. wise utilization during last 3 year> |
| 10) Base Load or Peaking Load Station | <if peaking load, details of estimated hours of running> |
| 11) Interfacing Voltage level with grid S/S |  |
| 12) provision of Reactive Power |  |
| 13)Other relevant Information |  |
| 14)Augmentation/Renovation/Modernization/Extension Details of Station (if any) |
| 1. Specific Details
 |  |
| 1. Commissioning schedule
 |  |
| 1. Other relevant information
 |  |
| 15) Description of ‘Electricity System’ along with single line diagram(connected &/or proposed) |
| 10) other information as notified by STU on its Web-site |
| 15 | In case of New Generating Station  |
| 1)Name |  |
| 2)Name of promoter |  |
| 3) Location |  |
| 4) Generation Capacity |  |
| 5) Details of Units with Capacity in MW& Commissioning schedule |  |
| 6)Type | <Thermal/Non-conventional specify, if any other> |
| 7) Fuel |  |
| 8) Whether Captive Plant | <Yes/no> |
| 9) Base Load or Peaking Load Station | <if peaking load, details of estimated hours of running> |
| 10) Interfacing Voltage level with grid S/S |  |
| 11) provision of Reactive Power |  |
| 12) whether identified Station of CEA | <yes/NO> |
| 13) status of Clearance(Yes/No) |  |
| 1. Land Requisition
 |  |
| 1. Fuel agreement
 |  |
| 1. Environment & Forest
 |  |
| 1. TEC
 | <if required> |
| 1. PPA with beneficiaries
 |  |
| 14)Other relevant Information |  |
| 15) Description of ‘Electricity System’ along with single line diagram |
| 16) other information as notified by STU on its Web-site |

|  |  |
| --- | --- |
| 16 | Details of final beneficiary (to whom Power is to be Transmitted &/or wheeled  |
| <Customer may enclosed supporting document as considered appropriate, duly signed on each page) |
| A)In case of Distribution Licensees |
| 1)Name of Entity |  |
| 2)Address of Entity |  |
| 3) Utility in which embedded |  |
| 4) Allocation of Power (MW) |  |
| 5)Other Relevant Information |  |
| **B) In case of other than Distribution Licensees** |
| 1)Name of person/Entity |  |
| 2)Address of Person/Entity |  |
| 3) Utility in which embedded |  |
| 4) Allocation of Power (MW) |  |
| 5) Place of Installation to be Benefited |  |
| 6)Reactor/capacitor Installed |  |
| 7)Beneficiary is consumer of distribution Licensees | <Yes/No> |
| If yes, Then (i) Name of distribution Licensees |  |
| (ii Existing Contracted Capacity |  |
| 8)Other relevant Information |  |
| 9) other information as notified by STUon its Web-site |
| 17 | Other Relevant Information |
|  |  |

**Undertaking on behalf of Customer/User’s involved in transaction**

|  |  |
| --- | --- |
| **18** | **Declaration** |
| **a)All Entities/Utilities to transaction shall abide by provisions of the Electricity Act 2003(the Act), DERC (Terms and Conditions for Intra State Open Access) Regulations and any other relevant regulation/order/ code as amended from time to time.****b) M/s\_\_\_\_\_\_\_\_\_\_\_\_ have a valid license (no.\_\_\_\_\_, type \_\_\_\_\_\_\_and valid upto\_\_\_\_\_\_\_) issued by \_\_\_\_\_\_\_\_ for Inter-State/Intra-State trading and will abide by CERC Regulation on inter-State trading License, as amended from time to time/DERC (procedure, term and conditions for grant of Trading License for Intrastate Electricity Trader and other related provisions) Regulation and amendments thereof .****<this clause is applicable in case customer is a trader>****c) The electricity system(involved in Transaction) shall abide by provisions of DEGC,IE Rules 1956 made under section 37 of Indian Electricity Act 1910 whichever applicable, Technical Standards for Construction of electricity plants, Electric Lines and Connectivity to Grid specified by CEA, measures relating to safety and Electric supply made by CEA under section 57 and 58 of the Act, and Installation and Operation of meters Regulations made by CEA.****d) I hereby agree to keep STU and SLDC indemnified at all times and shall undertake to indemnify, defend and keep STU and SLDC harmless from any** and all damages, losses, claims and actions including those relating to injury to or death of any person or damage to property, demands, suits, recoveries, costs and expenses, court costs, attorney fees, and all other obligations by or to third parties, arising out of or resulting from open access transaction |
|  |  |  |  |  |  |  |  |
| Place: |  |  |  | Signature (With Stamp) |  |  |
| Date | : |  |  |  | Name & Designation |  |  |

Enclosures

1) Non-refundable application fee by Demand draft or cash receipt (if payment by cash).

(2) Self–certified copy of PPA/PSA/MoU entered between the parties (buyer and seller) of transaction stating contracted power, period of transaction, drawal pattern, point(s) of injection and drawal etc.

(3) Self-certified copies of Trading licensee .(if applicable).

(4) Detailed description of ‘electricity system’ of injecting and drawee entities(involved in the transaction) already connected and/or proposed to be connected with intra-state transmission system along with single line diagrams.

(5) Connectivity and interface metering related supporting document including outdoor and indoor layout single line diagrams.(if existing user’s of intra-state System)

(6) If any other.

**Copy to along with relevant enclosures [except (1) & (2)]:**

(1) General Manager (Commercial) of Transmission Licensee involved in transaction.

(2) Concerned officer of Distribution Licensee involved in transaction

(3) SLDC.

(4) Any other concerned

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   |   |   |   |   |   |   |   |   |
| **For use of STU (with Reference to Enrolment of Application)** |
| **STU Reference ID No.** |   |
| **Nodal STU Approval No.** | *< if approved >* |
| **Or Reason of Refusal\*(If Refused)** |   |
| *<\* Nodal Agency may also enclosed supporting documents for the reasons of refusal duly signed on each page >* |
|  |  |  |  |  |  |  |  |  |
|  |

|  |
| --- |
|  **ACKNOWLEDGEMENT** |
|  |  |  | *(for office use only)* |  |  |  |
| **APPLICATION FOR GRANT OF LONG-TERM OPEN ACCESS** |
| *(A)< to be filled by the customer >* |  |  |  |  |  |
| 1 | Customer Application No: | *<self generated by Customer>* | Date: |   |
| 2 | Period of Transaction: |  |
| 3 | Name of Customer\* | *< seller/buyer/captive user/trader (on behalf of seller/buyer/captive user >* |
| 4 | Trading License No. & Type | *<If Trader>* |

*< MW\* at point of injection>*

|  |  |  |
| --- | --- | --- |
| 5 | Period of Open Access Sought for |  |
| Proposed date/Month of Commencement of Open Access |  |
| Details of proposed Open Access |
| Date | Hours | Capacity  |
| From  | To | From | To | MW\* |
|   |   |   |   |   |
| <MW\*at point of Injection>(B) *< to be filled by STU>* |  |  |  |  |  |
| **Date and time of Receipt of Application** |  |
|  |  |  |  |  |  |  |  |  |
| place | : |  |  |  | Signature (With Stamp) |  |  |
| Date | : |  |  |  | Name & Designation |  |  |
| ------------------X-----------------------X---------------------X----------------------------X----------------------X---------------- |
|  |  |  |  |  |  |  |  |  |
| *(to be issued by STU to the customer immediately on receipt of application duly filled in)* |
|  |  |  |  |  |  |  |  |  |
| **APPLICATION FOR GRANT OF LONG-TERM OPEN ACCESS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *(A)< to be filled by the customer >* |  |  |  |  |  |
| 1 | Customer Application No: | *<self generated by Customer>* | Date: |   |
| 2 | Period of Transaction: |  |
| 3 | Name of Customer\* | *< seller/buyer/captive user/trader (on behalf of seller/buyer/captive user >* |
| 4 | Trading License No. & Type | *<If Trader>* |

*< MW\* at point of injection>*

|  |  |  |
| --- | --- | --- |
| 5 | Period of Open Access Sought for |  |
| Proposed date/Month of Commencement of Open Access |  |
| Details of proposed Open Access |
| Date | Hours | Capacity  |
| From  | To | From | To | MW\* |
|   |   |   |   |   |
|   |   |   |
| <MW\*at point of Injection>(B) *< to be filled by STU>* |  |  |  |  |  |
| **Date and time of Receipt of Application** |  |
|  |  |  |  |  |  |  |  |  |

 |
| place | : |  |  |  | Signature (With Stamp) |  |  |
| Date | : |  |  |  | Name & Designation |  |  |
| **N.B:** | **This counterfoil may be scored out and issued to the customer.** |  |  |  |
| **FORMATS for Long-Term** |
| **FORMAT- LT-2A** |

**Format of Application for Registration with SLDC as user of intra-state Transmission System**

**(for generator)**

Sr.No. Particulars Applicant’s Details

1 Name of the Generating Company ………………………………….

2 Address of the Generating Company/ ………………………………….

Authorized Person

Name : ………………………………….

Designation : ………………………………….

Address : ………………………………….

Contact Details :

Office No : 1) …………………………2) ………………………………….

Fax No. : ………………………………….

Mobile No : ………………………………….

Email ID : ………………………………….

3 Location of the Generating Station ………………………………….

4 Location of Interface with Grid ………………………………

(Enclose a layout of switch yard)

5 Total Installed Capacity …………………………………

6 Commercial Operation Date (COD) ………………………………….

Of the Generating station

7 Nature of use of Energy Supply to Licensees ………………………………

/wheeling to 3rd parties /wheeling for captive use

8 Transmission capacity contracted (Please enclose details of Licensees)

(a) For supply to Licensees ………………………………….

(b) For wheeling to 3rd parties ..…………………………….

(c)For wheeling for captive use …………………………………

9 Agreement period for supply to licensees ………………………………….

10 Details of communication system installed for …………………………………

communication of data to SLDC

11 Establishment in-charge of control room for ………………………………….

communication with SLDC

12 Details of Registration fee paid …………………………………

13 Any other information useful for assisting ………………………………….

efficient Grid Operation (Please enclose separate

sheets for additional information )

Signature of the Authorized Officer

FORMAT-LT2-A: APPROVAL FOR LONG-TERM OPEN ACCESS (Page -1 of 1)

|  |
| --- |
| **FORMATS for Long -Term** |
| **FORMAT- LT-2B** |

**Format of Application for Registration with SLDC as user of intra-state Transmission System**

(For Open Access Customer)

Sr.No. Particulars Applicant’s Details

1 Name of the Open Access Customer ………………………………….

2 Address of the Open Access Customer ………………………………….

Authorized Person

Name : ………………………………….

Designation : ………………………………….

Address : ………………………………….

Contact Details :

Office No : 1) …………………2) ………………………………

Fax No. : ………………………………….

Mobile No : ………………………………….

Email ID : ………………………………….

3 Location of Interface with Grid (Attach a list of voltage-wise Grid substations/lines along with details of location, capacity, No. of bays, line length, type of line, date of commissioning etc )

4 Total capacity (Max. Demand that can be served)

5 Transmission capacity contracted from Transmission Licensees (Enclose list of

Transmission Licensees with details)

6 Capacity contracted to Open Access consumers.

7 Details of communication system available for communication of data to SLDC / ALDC (Enclose substation-wise details)

8 Designation of the personnel responsible for operation of Grid substations at which Open Access Customer is connected.

9 Details of the registration fee paid

10 Any other information useful for assisting efficient Grid Operation:

(Please enclose separate sheets for additional information)

Signature of the Authorized Officer

FORMAT-LT2-B: APPROVAL FOR LONG-TERM OPEN ACCESS (Page -1 of 1)

|  |
| --- |
| FORMATS for Long-Term |
| FORMAT- LT-8 |

**FORMAT FOR THE UNCONDITIONAL AND IRRECOVABLE BANK GURANTEE FOR BILATERAL TRANSACTION / COLLECTIVE TRANSACTION**

*(To be stamped on Rs.100/- non judicial stamp paper)*

Whereas M/s. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(*Name of the Intra State Company),* a Company registered under the Companies Act, 1956 and having Registered Office at \_\_\_\_\_\_\_\_*(Address)*, hereinafter called the `Intra State Company’ submitted open access application for intending transaction, inter alia for sale / trade of power of \_\_\_MW on Long term basis to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (*Name of Trader / Buyer)* through Inter State / Intra State Open Access as per applicable relevant regulation issued by appropriate Regulatory Commission and procedure devised by the State Transmission Utility, Delhi Transco Ltd for Long Term Open Access in intra State network in the State of Delhi (*Name of State)* in the condition which inter alia are subject matter of the application of Long term transaction herein referred, agrees to furnish this Bank Guarantee for an amount of Rs. \_\_\_\_\_\_\_*(in figures)* Rs.\_\_\_\_\_\_\_\_\_\_\_\_(i*n words)* equivalent to One week billing for scheduled energy either receivable or payable determined based on quantum of sale / trade intend to scheduled through this open access transaction at rate of 105% of maximum unscheduled interchange rate applicable and equivalent to One week.

We, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(*Name of the Bank)* Bank, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(*Branch, City)* Branch hereinafter called `The Bank’ in consideration of the premises, do hereby agrees unequivocally, irrevocably and unconditionally to pay the STU or concerned Distribution Licensees from the customer as the case may be or (the Distribution consumer), the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Forthwith on demand in writing from procurer or any officer authorized by it in this behalf at any time upto \_\_\_\_\_\_\_\_\_\_\_\_\_ *(date up to Open Access transaction + two additional months),* any amount upto and not exceeding Rupees \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *(in words)* only as may be claimed by STU, Delhi by way of failure of the Open Access Customer to pay any charges within stipulated time limit towards obligation laid down under Long Term Open Access approval granted.

It is hereby agreed and acknowledge that the decision of the STU/State Load Dispatch Center/ or (the Distribution company), the Generating company as the case may be, as to whether any money is payable by the Open Access Customer or whether the Open Access Customer has made any such default of defaults as aforesaid and the amount or amounts to which the STU is entitled to by reason thereof will be binding on the Bank and the Bank shall not be entitled to ask the STU/Distribution Licensees to establish its claim or claims under this Guarantee or to claim any such amount from the company in the first instance but shall pay the same to the STU/ Distribution Licensee of Delhi forthwith on demand without any demur, reservation, recourse, contest or protest and / or without any reference to the intrastate company. Any such demand made by the STU/ Distribution Licensee on the Bank shall be conclusive and binding notwithstanding any difference between the STU/ Distribution Licensee and the Intrastate company or bank and Intrastate Company or pay dispute pending before any Court, Tribunal, Arbitrator or any other authority.

The Bank further undertake not to revoke this Guarantee during its currency except with the previous consent of the STU/ Distribution Licensee of Delhi in writing and this Guarantee shall continue to be enforceable till the aforesaid date of its expiry or the last date of the extended period agreed upon as the case may be unless during the currency of the Guarantee all the dues of the STU/ Distribution Licensee under or by virtue of Open Access approval granted by SLDC of the letter of approval and subsequent accounting statement issued to intrastate company have been duly paid and its claims satisfied or discharge or the STU/ SLDC certifies that the terms and conditions of said letter of open access approval and subsequent accounting statement issued by State Load Dispatch Center have been fully carried out by the intrastate company and accordingly discharged the Guarantee.

Subject to the maximum limit of the Bank’s liability as aforesaid, this Guarantee shall cover all claim or claims of the STU/ Distribution Licensee against the Intrastate company from time to time arising out or under condition stipulated under the said letter of Long Term Open Access approval and Charges payable in exercise of said approval of Long Tem Open Access and in respect of which the STU/ Distribution Licensee Delhi demand or notice in writing be served on the Bank before the date of expire of this Guarantee mentioned above or of further extended period agreed upon, as the case may be.

The Guarantee shall not be affected by any change in the constitution of the said Intrastate Company in any manner by reason or merger, amalgamation, restructuring or any extension or forbearance to the Intrastate Company or any other change in the constitution of the Guarantor and the Bank will ensure for and be available to and guarantee enforceable by the STU/ Distribution Licensee of Delhi.

The Guarantee shall be a primary obligation of the Guarantor Bank and accordingly procurer shall not be obliged before enforcing this bank guarantee to take any action in any court or arbitral proceedings against the Intrastate Company, to make any claim against or any demand on the Intrastate Company or to give notice to the Intrastate Company to enforce any security held by the procurer or to exercise, levy or enforce any distress, diligence or other process against the Intrastate Company. The bank guarantee shall be interpreted in accordance with the laws of India and settlement of any dispute arisen between the parties shall be subjected to the legal jurisdiction of Delhi.

And whereas in case violation of the terms of the Bank Guarantee, penalty will be levied on the claimed amount as per the bank’s penalty rates. It will not be opened to the Intrastate Company to challenge the said clause on any ground whatsoever including formation of opinion but default as to the amount guarantee or part thereof remaining payable under the contract and such opinion of STU/ Distribution Licensee shall be final and binding thereof for the purpose of invocations of this Bank Guarantee.

Notwithstanding anything contained herein:-

1 Our liability under this Bank Guarantee shall not exceed Rs.\_\_\_\_\_\_\_\_\_\_\_*(In Figures)* (Rupees \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) (*in words)*

*2* This Bank Guarantee shall be valid till \_\_\_\_\_\_\_\_\_\_\_\_\_(*date to be inserted as per approval of Open Access transaction allowed by SLDC with an additional claim period of 60days thereafter).*

3 We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if procurer serve upon us a written claim or demand on or before \_\_\_\_\_\_\_\_\_\_\_

The Bank has power to issue this Bank Guarantee under the statute and the undersigned has full power to sign this Guarantee on behalf o Bank.

Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Power of Attorney No.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

For \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (name of bank)

Witness (two authorized officers of the Bank with name, designation and employee number)

1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ANNEXURE-3**

DELHI TRANSCO LIMITED

METERING PROCEDURE

**DELHI TRANSCO LTD.**

METERING PROCEDURE

Dated …………………

In compliance to the provisions contained in Delhi Grid code (DGC) Clause No.33 notified by Delhi Electricity Regulatory Commission (DERC) on official Gazette of Delhi on 22.04.2008. Delhi Transco Ltd. (DTL) being notified as State Transmission Utility in Delhi State makes following procedures for installation and operation of meters namely:

**1 Short Titles, extent and commencement**

1.1 These procedures may be called “Metering Procedures”.

1.2 These procedures shall be extended to the whole of National Capital Territory of Delhi.

1.3 These procedures shall come into force from the date of its approval by DERC.

**2 Definitions**

2.1 In these procedures, unless the context otherwise requires;

(a) **‘Act’** means the Electricity Act, 2003;

(b) **‘Accredited Test Laboratory’** means a test laboratory accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL);

(c) **‘Active Energy’** means the electricity supplied or consumed during a time interval, being the integral of Active Power with respect to time, measured in the units of ‘Watt – hours’ or standard multiples thereof. One ‘kilowatt – hour’ (kWh) is one unit;

(d) **‘Active Power’** means the electrical power, being the product of root mean square (rms) voltage, root mean square (rms) current and cosine of the phase angle between the voltage and current vectors and measured in units of ‘Watt’ (W) or in standard multiples thereof;

(e) **‘Availability Based Tariff (ABT)’** means a tariff structure based on availability of generating units and having components, viz, Capacity Charges (CC), Energy Charges (EC) or Variable Charges (VC) and charges for Unscheduled Interchange (UI);

(f) **‘Buyer’** means any generating company or licensee or consumer whose system receives electricity from the system of generating company or licensee;

(g) **‘Check Meter’** means a meter, which shall be connected to the same core of the Current Transformer (CT) and Voltage Transformer (VT) to which main meter is connected and shall be used for accounting and billing of electricity in case of failure of main meter;

(h) **`Effective Date’** means the date on which the procedures are approved by the Delhi Electricity Regulatory Commission (DERC).

(i) **‘Interface Meter’** means a meter used for accounting and billing of electricity, connected at the point of interconnection between electrical systems of generating company directly connected to the Intra State Transmission System who have to be covered under ABT and have been permitted open access by Delhi Electricity Regulatory Commission;

(j) **‘Instrument Transformer’** means the ‘Current Transformer (CT)’, ‘Voltage Transformer’ (VT) and ‘Capacitor Voltage Transformer’ (CVT);

(k) **‘Main Meter’** means a meter, which would primarily be used for accounting and billing of electricity;

(l) **‘Meter’** means a device suitable for measuring, indicating and recording consumption of electricity or any other quantity related with electrical system and shall include, wherever applicable, other equipment such as Current Transformer (CT), Voltage Transformer (VT) or Capacitor Voltage Transformer (CVT) necessary for such purpose;

(m) **`Operational Meter’** means a meter for monitoring output and response of power stations, generating units, grid sub-stations of Delhi Transco Ltd. (DTL) and Distribution Licensees for the control of the State Transmission System (STS).

(n) **‘Power Factor’** means the cosine of the electrical angle between the voltage and current vectors in an AC electrical circuit;

(o) **‘Reactive Energy’** means, the integral of Reactive Power with respect to time and measured in the units of ‘Volt-Ampere hours reactive (VARh) or in standard multiples thereof;

(p) **‘Reactive Power’** means the product of root mean square (rms) voltage, root mean square (rms) current and the sine of the electrical phase angle between the voltage complex or and current complex or, measured in ‘Volt – ampere reactive’ (VAr) and in standard multiples thereof;

(q) **‘Standards’** means ‘Standards on Installation and Operation of Meters’ given in the Schedule of these Regulations unless otherwise any other standard specifically referred;

(r) **‘Standby Meter’** means a meter connected to CT and VT, other than those used for main meter and check meter and shall be used for accounting and billing of electricity in case of failure of both main meter and check meter;

(s) **‘Supplier’** means any generating company or licensee from whose system electricity flows into the system of another generating company or licensee or consumer;

2.2 The words and expressions used and not defined in these procedures but defined in the Act shall have the meaning assigned to them in the Act.

**3 Introduction**

This Metering Procedure sets out or refers to the requirements of Interface ABT (including those consumers availing open access or directly connected to the State Transmission System (STS) who have to be covered under the ABT) required to be aligned with the provisions specified under the Indian Electricity Grid Code (IEGC) and DGC of Metering at Generating Stations in Delhi and Substations of DTL as well as sub-station of various distribution licensees. It will also include metering at Energy exchange points of different licensees and open access consumers in the 220/400KV sub-station of DTL, distribution licensees grid as well as dedicated Generating Stations through out DELHI state.

**3.1 The Interface ABT Metering**

In the present setup the ABT metering for measurement of active energy (Wh) transmit in each 15 Minute block, reactive energy (VARh) with voltage 103% and above & 97% and below.

a)DTL system connected to northern Grid including central sector generator at 400/220KV level for Interstate ABT billing.

b)The dedicated generation of Delhi belonging to Indraprastha Power Generation Company Ltd. (IPGCL), Badarpur Thermal Power Station (BTPS) and Pragati Power Corporation Ltd. (PPCL) are metered at the exchange points mentioned in the Bulk Power Supply Agreement (BSA) executed with DTL at the time of unbundling of erstwhile Delhi Vidyut Board (DVB).

c) The metering to licensees including consumers availing open access generally done on 66/33 and 11KV with exception. The metering point will be revised from time to time after mutual consultation between stakeholders with the due concern of the commission.

**3.1.1 Operational metering**

The operational metering shall be provided on each element in the generating/DTL and distribution licensees grid sub-station through displaying equipment to display active, reactive power including Amp, volts, power factor etc. Each stakeholder shall optimize the metering system so that they are self-dependent to generate their own data base, load flow to enable effective control.

**3.2 Objective**

DERC being the Power Regulator in Delhi brings together a single set of technical rules, related with metering of energy encompassing all the utilities connected to or using the Intra state ABT billing for commercial and operational purposes.

**4 Specifications and accuracy limits of meters and associated equipment.**

**4.1 Functional Requirements for ABT interface meters**

(a) The Interface meters suitable for ABT shall be static type, composite meters, as self contained devices for measurement of active and reactive energy, and certain other parameters as described in the following paragraphs. The meters shall be suitable for being connected directly to voltage transformers (VTs) having a rated secondary line-to-line voltage of 110V, and to current transformers (CTs) having a rated secondary current of IA (Model-A:3 element 4 wire ) or 5A (Model-B:3 Element, 4 wire). The reference frequency shall be 50Hz.

(b) The meters shall have a non-volatile memory in which the following shall be automatically stored:

i) Average frequency for each successive 15 minutes block, as a two digit code (00 to 99 for frequency from 49.0 to 51.0 Hz).

ii) Net Wh transmittal during each successive 15 minutes block; upto second decimal with plus / minus sign.

iii) Cumulative Wh transmittal at each midnight, in six digits including one decimal.

iv) Cumulative VARh transmittal for voltage high condition, at each midnight, in six digits including one decimal.

v) Cumulative VARh transmittal for voltage low condition, at each midnight, in six digits including one decimal.

vi) Data and time blocks of failure of VT supply on any phase, as a star (\*) mark.

(c) The meters shall store all the above listed data in their memories for a period of at least ten days. The data older than ten days shall get erased automatically. Each meter shall have an optical port on its front for tapping all data stored in its memory using a hand held data collection device. The meter shall be suitable for transmitting the data to remote location using appropriate communication medium.

(d) The active energy (Wh) measurement shall be carried out on 3-phase, 4 wire Principle, with an accuracy as per class 0.2 S of IEC-687/IEC-62053-22. In model-A & C, the energy shall be computed directly in CT and VT secondary quantities, and indicated in watt-hours. In Model-B and Model-D, the energy display and recording shall be one fifth of the Wh computed in CT & VT secondary quantities.

(e) The Var and reactive energy measurement shall also be on 3-phase, 4 wire principle, with an accuracy as per class 0.2 of IEC - 62053-23 or better. In Model-A or Model C, the Var and VARh computation shall be directly in CT & VT secondary quantities. In Model-B or Model-D, the above quantities shall be displayed and recorded as one-fifth of those computed in CT and VT secondary quantities. There shall be two reactive energy registers, one for the period when average RMS voltage is above 103% and the other for the period the voltage is below 97%.

(f) The 15 minute Wh shall have a +ve sign when there is a net Wh export from substation bus bars, and a -ve sign when there is a net Wh import. The integrating (cumulative) registers for Wh and VARh shall move forward when there is Wh / VARh export from substation bus bars, and backward when there is an import.

(g) The meters shall also display (on demand), by turn, the following parameters:

(i) Unique identification number of the meter.

(ii) Date

(iii) Time

(iv) Cumulative Wh register reading with +/- sign

(v) Average frequency of the previous 15 minute block.

(vi) Net Wh transmittal in the previous 15 minute block, with+/-sign

(vii) Average percentage voltage

(viii) Reactive power with +/- sign

(ix) Voltage-high VARh register reading

1. Voltage-low VARh register reading.

(h) The three line-to-neutral voltages shall be continuously monitored, and in case any of these falls below 70%, the condition shall be suitably indicated and recorded. The meters shall operate with the power drawn from the VT secondary circuits, without the need for any auxiliary power supply. Each meter shall have a built-in calendar and clock, having an accuracy of 30 seconds per month or better.

(i) The meters shall be totally sealed and tamper-proof, with no possibility of any adjustment at site, except for a restricted clock correction. The harmonics shall be filtered out while measuring Wh, Var and VARh, and only fundamental frequency quantities shall be measured/computed.

(j) The main meter and the check meter shall be connected to same core of CTs and VTs.

**4.1.1 Instrument Transformers**

(a) All current transformers and voltage transformers used in conjunction with the ABT metering shall conform to relevant Indian Standard Specifications or relevant IEC.

(b) The accuracy class of Current transformers (CTs) and Voltage transformers (VTs) shall not be inferior to that of associated meters. The existing CTs and VTs not complying with these regulations shall be replaced by new CTs and VTs, if found defective, non functional or as per the directions of the appropriate Commission. In case the CTs and VTs of the same accuracy class as that of meters cannot be accommodated in the metering cubicle or panel due to space constraints, the CTs and VTs of the next lower accuracy Class can be installed.

Note:- IEGC states that C.T’s/V.T’s shall have accuracy class of 0.5 or better.

(c) The Voltage Transformers shall be electromagnetic VT or Capacitive Voltage Transformer (CVT).

**4.1.2 Overall Accuracy of Equipment**

Existing Metering shall be calibrated, so as to achieve Overall Accuracy of Interface Metering within the limits of Class 1.0. Even if all CT/PT individually found okay but overall accuracy is beyond class 1.0, the metering system will be treated as defective. All CT and PT in a metering system should have identical class of accuracy.

4.2 **Functional Requirements for Audit and Accounting meters:**

(1) The energy accounting and audit meters shall be suitable for measurement, recording and display of cumulative active energy with date and time.

(2) The energy accounting and audit meters may also have the facility to measure, record and display one or more of the following parameters depending upon the energy accounting and audit requirement. All parameters excluding instantaneous electrical parameters shall also be stored in memory.

* 1. Apparent power
	2. Phase wise kilowatt at peak KVA
	3. Phase wise KVA(reactive) at peak KVA
	4. Phase wise voltage at peak KVA
	5. Power down time
	6. Average power factor
	7. Line currents
	8. Phase voltages
	9. Date and time
	10. Tamper events
	11. Cumulative apparent energy (KVAh)
	12. Any other parameter required for tariff application or analysis.

(3) The energy accounting and audit meter shall have data storage capacity for at least 35 days in a non-volatile memory.

(4) Energy accounting and audit meters shall have facility to download the parameters through meter reading instruments as well as remote transmission of data over communication network.

**4.3 Standards**

All interface ABT meters and energy accounting and audit meters shall -

(a) Comply with the relevant standards of Bureau of Indian Standards (BIS), If BIS Standards are not available for particular equipment or material, the relevant British Standards (B), International Electro-technical commission (IEC) Standards, or any other equivalent Standard shall be followed:

Provided that whenever an international Standard or IEC Standard is followed, necessary corrections or modifications shall be made for nominal system frequency, nominal system voltage, ambient temperature, humidity and other conditions prevailing in India before actual adoption of the said Standard.

(b) Confirm to the requirements of CEA (Installation of Meters & Operation of meters Regulations 2006 dated 17.03.06 & Amendment Regulations 2010 dt. 04.06.10) standards prescribed there under and as amended from time to time.

**5.0 Location of Meters**

The meters shall be mounted on the respective control panel of transformer/feeder in the Control Room.

1. Interface Meters :- (a) The location of interface meters shall be as specified in Table-1

Provided that the location of main, check and standby meters installed at the existing generating stations shall not be changed unless permitted by the Authority.

Provided further that the generating companies or licensees may install meters at additional locations in their systems depending upon the requirement.

**Table-1**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl.No. | Stages | Main Meter | Check Meter | Standby Meter |
| (1) | (2) | (3) | (4) | (5) |
| 1.  | Generating Station | On all outgoing feeders | On all outgoing feeders | (i)High Voltage (HV) side of Generator Transformers(ii)High Voltage (HV) side of all Station Auxiliary Transformers |
| 2. | Transmission and Distribution System | **Metering between Delhi Transco Limited and different licensees.** (i) The metering of energy to licenses from DTL 220kV Sub-Station shall be carried out on the LV voltage (66 or 33 kV) as the case may be, there could be Sub-Station where:-a) Entire energy is delivered to one licensee in such case the dedicated metering equipment shall be installed on each EHV Transformer (220/66/33 kV) on the LV side through dedicated CTs and relevant Bus VTs.b) In second case where stakeholders are more than one, the energy shall be measured on each feeder pertaining to a particular licensee through dedicated CTs and relevant Bus VTs.c) The energy utilized by DTL for auxiliary equipment at 220 kV Sub-Station shall be metered on 11 kV side of the Transformer.d) The Capacitor Bank installed on 66, 33 and 11 kV Buses of DTL Sub-Station shall be provided with a reactive energy meter.e) Some of the DTL grids due to their geographical location serve a licensee dedicatedly but the 66/33 kV feeders interconnect to DTL Sub-Station which are not serving the same licensees. In such cases a suitable Sub-Station belonging to a DISCOM / Licensees should be made as inter company exchange point and the metering equipment shall record import and export energy. The metering equipment provided by Delhi Transco Limited on 66/33 kV interconnection points between different Discoms / Licensees are provided with ABT metering by DTL. Where as on 11kV exchange points between Discoms/Licensees the ABT meters responsibility lies on DTL.f) The 220KV Grid Sub-Station is the territory of NCR which do not belong to DTL but to a third party, the metering equipment shall be provided by DTL on L.V side of EHV Transformer (220/66/33kV), the metering shall be either on incomer of the Transformer if dedicated to one stakeholder. In case the stakeholder are more than one in that case all feeders belonging to a licensees shall be metered through dedicated CTs and Bus PTs.g) Where a grid Sub-Station belonging to a particular licensee receive Power from different DTL Sub-Station and transfer power to other Discoms, the metering arrangement shall be provided by DTL and the bus arrangement shall be maintained as decided by DTL. All electrical operation in the Sub-Station shall be on the directive of DTL. |
| 3. | Inter-ConnectingTransformer | High Voltage side of Inter-connecting Transformer | - | Low voltage side of inter connecting Transformer |

(b) The scheme for location of interface meters shall be submitted to the Central Transmission Utility or the State Transmission Utility or the licensee by owner of the meter in advance, before the installation of the scheme .

1. **Energy accounting and audit meter**.- The Energy accounting and audit meters shall be installed at following locations to facilitate the accounting of the energy generated, transmitted, distributed and consumed in various segments of the power system and the energy loss, namely:-
	1. **Generating Stations**.-(a) at a point after the generator stator terminals and before the tap-off to the unit auxiliary transformer(s),
		1. on each incoming feeder of 3.3 kV and above.
		2. low voltage side of each incoming transformer feeder of low voltage (415 V) buses, and
		3. on all high tension motor feeders.

Provided that in case, numerical relays having built-in feature of energy measurement of requisite accuracy are provided in high voltage or low voltage switchgear, separate energy meter is not necessary.

1. **Transmission system**.- all incoming and outgoing feeders (if the interface meters do not exist)

(iii) **Distribution system**.- (a) all incoming feeders(11 kV and above)

 (b) all outgoing feeders (11 kV and above)

 (c) Sub-station transformer including distribution transformer- Licensee may provide the meter on primary or secondary side or both sides depending upon the requirement for energy accounting and audit.

**5.1 Installation**

DTL shall install a Main meter and a Check meter at all of its 400kV and 220kV Sub-Stations on which any point of supply situated

**5.2 Following Responsibility**

Following installation, the Main meters and the Check meter shall be the property of DTL and DTL shall be responsible for the cost of their maintenance, replacement and calibration. All the meters mentioned in this clause 3.1 shall be under the joint custody of the parties.

Notwithstanding the above metering system, parties expressly agree and accept that DTL shall own the 66kV bus bars (or the 33kV bus bars in case the point of supply is at 33kV) at the 400 kV or 220 kV substations on which any point of supply is situated and shall be responsible for their operation and maintenance.

**5.3 Metering between Delhi Transco Limited and different licensees.**

(i) The metering of energy to licenses from DTL 220kV Sub-Station shall be carried out on the LV voltage (66 or 33 kV) as the case may be, there could be Sub-Station where:-

a) Entire energy is delivered to one licensee in such case the dedicated metering equipment shall be installed on each EHV Transformer (220/66/33 kV) on the LV side through dedicated CTs and relevant Bus VTs.

b) In second case where stakeholders are more than one, the energy shall be measured on each feeder pertaining to a particular licensee through dedicated CTs and relevant Bus VTs.

c) The energy utilized by DTL for auxiliary equipment at 220 kV Sub-Station shall be metered on 11 kV side of the Transformer.

d) The Capacitor Bank installed on 66, 33 and 11 kV Buses of DTL Sub-Station shall be provided with a reactive energy meter.

e) Some of the DTL grids due to their geographical location serve a licensee dedicatedly but the 66/33 kV feeders interconnect to DTL Sub-Station which are not serving the same licensees. In such cases a suitable Sub-Station belonging to a DISCOM / Licensees should be made as inter company exchange point and the metering equipment shall record import and export energy. The metering equipment provided by Delhi Transco Limited on 66/33 kV interconnection points between different Discoms / Licensees are provided with ABT metering by DTL. Where as on 11kV exchange points between Discoms/Licensees the ABT meters responsibility lies on DTL.

f) The 220KV Grid Sub-Station is the territory of NCR which do not belong to DTL but to a third party, the metering equipment shall be provided by DTL on L.V side of EHV Transformer (220/66/33kV), the metering shall be either on incomer of the Transformer if dedicated to one stakeholder. In case the stakeholders are more than one in that case all feeders belonging to a licensees shall be metered through dedicated CTs and Bus PTs.

g) Where a grid Sub-Station belonging to a particular licensee receive Power from different DTL Sub-Station and transfer power to other Discoms, the metering arrangement shall be provided by DTL and the bus arrangement shall be maintained as decided by DTL. All electrical operation in the Sub-Station shall be on the directive of DTL.

**5.4 Notice of Installation of New Meters**

####

#### Timely Installation

Where notice is served on DTL, an interested party of an existing Relevant Connection site, which is the point of supply of a Distribution licensees, the proposed interested party shall confirm that metering required for the purposes of this Metering procedure will be installed and kept operational at the Relevant connection site. Where the necessary metering will not be installed and operational by a required date, the interested party and DTL shall follow the provisions set out in such Metering shall be tested in accordance with the provisions of Metering procedure.

**6.0 procedure to ensure conformance to the accuracy limits, TESTING AND REPLACEMENT OF METERS.**

**6.1 Procedure and Periodicity**

a) At the time of commissioning, each interface meter shall be tested by the owner in the presence of concerned licensee / stake holder at site for accuracy using standard reference meter of better accuracy class than the meter under test.

b) All interface meters shall be tested at least once in five years. These meters shall also be tested whenever the energy and other quantities recorded by the meter are abnormal or inconsistent with electrically adjacent meters. Whenever there is unreasonable difference between the quantity recorded by interface meter and the corresponding value monitored at the billing center via communication network, the communication system and terminal equipment shall be tested and rectified. The meter testing shall be supervised by representatives authorized by the metering committee and preferably shall be tested using NABL accredited mobile laboratory or at any accredit laboratory and recalibrated if required at manufacturers work.

(c) Testing and calibration of interface meters may be carried out in the presence of the representatives of the supplier and buyer. The owner of the meter shall send advance notice to the other party regarding the date of testing.

**6.2 Procedures associated with maintenance of the meters proper functioning state**

The operation, testing and maintenance of all types of meters shall be carried out by the DTL or the licensee, as the case may be.

**6.3 Inspection and Testing of Meters**

 **6.3.1 Testing of Main and Check Meter**

The Main and the Check Meters shall be calibrated or tested in the presence of the representatives of concerned licensees and DTL. Each party shall ensure that the meters, monitors, terminals of CT and PT, are appropriate and the associated circuits with it owns, are sealed between inspections and tests.

* + 1. **Accuracy/Check and Test Performa**

The accuracy of the meters shall be verified jointly in accordance to IS standards and filled up in prescribed Performa (**Annexure-I**). Similarly instrument transformers ratio’s be confirmed (**Annexure-III&IV**) followed by meter installation Performa including verification of its functioning (**Annexure-II**).

The Company and DTL shall inspect the metering system at least once every 5 years. Any party can require the testing of any Meter even before the period of 5 years stipulated above. In such a case, if after the test, the meter is found to be within the accuracy levels required by this schedules, the cost of meter testing shall be borne by the party who had requested for the test. In all other cases, the cost of the meter test and recalibration shall be borne by the owner of such meter.

In addition to the tests conducted under relevant clause in the event that the reading on the check meter differs from that on the Main meters by more than + 0.5% in any month, the Main meters and the Check meters shall be jointly tested in turn.

* + 1. **Defective Meter replacement**

In the event that any meter comprising the meter system is found to be defective, it shall be obligatory for DTL to recalibrate or replace the meter within seven (7) days to ensure that it is functioning correctly.

**6.4** **Safety of meters**

(1) The supplier or buyer in whose premises the interface meters are installed shall be responsible for their safety.

(2) The consumer shall, as far as circumstances permit, take precautions for the safety of the consumer meter installed in his premises belonging to the licensee.

(3) Licensee shall be responsible for the safety of the consumer meter located outside the premises of the consumer and the consumer shall be responsible for the safety of the real time display unit installed by the licensee in consumer premises.

(4) The generating company or the licensee who owns the energy accounting and audit metes shall be responsible for its safety.

**6.5 Sealing of meters**

**6.5.1 Sealing Arrangement**

(a) All meters shall be sealed by the manufacturer at its works. In addition to the seal provided by the manufacturer at its works, the sealing of all meters shall be done as follows at various sealing points as per the standards given in the schedule.

(i) Sealing of interface meters, shall also be done by both the supplier and the buyer.

b) Seal shall be unique for each DISCOM, DTL, generating company etc. and name or logo of the Owner shall be clearly visible on the seals.

c) Only the patented seals (seal from the manufacturer who has official right to manufacture the seal) shall be used.

d) Polycarbonate or acrylic seals or plastic seals or holographic seals or any other superior seal shall be used.

e) Lead seals shall not be used in the new meters. Old lead seals shall be replaced by new seals in a phased manner and the time frame of the same shall be submitted by the DTL to the appropriate commission for approval.

f) The type of seal going to be used by each company shall be informed to Metering Committee.

**6.5.2 Removal of seals from Meters**

Whenever seals of the interface metes have to be removed for any reason, advance notice as per Performa at Annexure-VI shall be given to other party for witnessing the removal of seals and resealing of the interface meter. The breaking and re-sealing of the meters shall be recorded by the party, who carried out the work, in the meter register, mentioning the date of removal and resealing, serial numbers of the brokenand new seals and the reason for removal of seals.

**6.5.3 Inspection of meters.**

 The main meters and the check meters and any other meter relevant to the calculations of the payments due shall be sealed with a seal owned by each of the parties and shall not be opened. Meter shall be calibrated or tested in the presence of the representatives of the companies and DTL. Each party shall ensure that the meters, monitors, terminals of CT and PT, are appropriate and the associated circuits which it owns, are sealed between inspections and tests.

**7. Provisions related to right of access to the meter**

**7.1 Right of Access**

The owner of the premises where, the meter is installed shall provide access to the authorized representative(s) of the licensees and the representatives authorized by the Metering Committee for installation, testing commissioning, reading and recording and maintenance of meters.

**7.2 Access with Equipment**

The right of access provided includes the right to bring in such vehicles, plant, machinery, test kits and maintenance or other materials as shall be necessary for the purposes of this Metering procedure.

**7.3 Authorization for Access**

Each Party shall ensure that any particular authorization or clearance for any person which is required to be given to ensure access is available on the arrival of such person at the relevant site.

**7.4 Limiting Disruptions and Disturbances**

Subject to the right of DTL to inspect without notice each Party shall ensure that all reasonable arrangements and provisions are made and/or revised from time to time, as and when necessary or desirable, to facilitate any right of access with the minimum of disruption, disturbance and inconvenience. Such arrangements and provisions made to a reasonable extent limit or restrict the right of access and/or provide for any party to make directions or regulations from time to time in relation to a specified matter.

**7.5 Safety Procedures**

Each person/employee granted access shall observe and comply with any such safety arrangements and all provisions (or directions or regulations issued pursuant thereto) that are made from time to time.

**7.6 Responsibilities of Access**

Each party granted access shall ensure that all reasonable steps are taken in the exercise of any right of access to:

(a) Avoid damage in relation to the property over which they have access, and

(b) Cause as little disturbance and inconvenience as possible to any party or other occupier of such property, and shall make good and damage caused to any such property in the course of exercising such rights, as soon as may be practicable. Subject to this, all such rights of access shall be exercisable free of any charge or payment of any kind.

**8. RIGHTS, RESPONSIBILITES AND PROCEDURES RELATED TO RECORDING, COLLECTION, tRANSFER, PROCESSING AND STORAGE OF DATA COLLECTED FROM METERS:**

**8.1 Rights**

Each party shall grant to any other party, its employees, agents and contractors and persons duly authorized by them full right to enter and remain upon any party of such Party’s property to the extent necessary for the purposes of this Metering Procedure. Each party granting access must further ensure that any consent or other forms of approval granted remain valid at the time of such access including, if appropriate rights of access across third party land.

The right of access includes the right to bring in such vehicles, plant, machinery, test kits, loading kits etc. and maintenance or other materials as shall be necessary for the purposes of this Metering Procedure.

**8.2 Responsibilities and procedures related to recording, collection, transfer, processing and storage of data collected from meters**

It would be responsibility of SLDC to maintain all energy accounting as per provisions of Act. The energy meters as installed under the Metering Procedure by DTL being STU at all energy exchange points. The UI accounting under Intrastate ABT is a weekly process and energy meter readings are to be down loaded by each party and communicated periodically to SLDC which would compute the actual net drawl of each beneficiary for each 15 minute time block as per the provisions of IEGC and prepare UI accounts. The UI accounts along with the energy meter data would be uploaded in SLDC’s website for information of all stakeholders.

**9. PROVISIONS RELATED TO OWNERSHIP OF METERING DATA**

It is the responsibility of SLDC to keep account of quantity release to each party though out the State and the ownership would be responsibility of SLDC. The data for the preceding months would be available to each DISCOM’s on request if required for meaningful purpose decided by SLDC.

**10. PROCEDURE TO ADDRESS METERING DISCREPANCIES, DEFECTIVE EQUIPMENT AND METER FAILURE.**

**10.1 To Address Metering Discrepancies**

When any party acknowledge any inaccuracy or discrepancy in metering the reports of such meter readings will be provided to the Interested Party and any resulting discrepancies will be dealt with as provided in the relevant procedure. In any other circumstances where metering is not complying with the standards required by this Metering Procedure such difference will be dealt with in accordance with.

As far as possible settlement values shall be derived from the meters readings.

**10.2. Defective meters**

If at any time any meter is destroyed or damaged, or otherwise ceases to function, or is found to be outside the prescribed limits of accuracy, the Interested Party shall, subject to compliance with its obligations, promptly, renew or, repair the same or replace any defective component so as to ensure that the relevant Meter is restored to service and operating within the prescribed limits of accuracy within one month from the date of noticing the defect. Meter includes the secondary circuits of instrument transformers.

**10.3 Meter Failure**

**10.3.1 Assumed Meter Readings in the event of Faulty metering**

If at any time, Metering ceases to function or is found to be outside the prescribed limits of accuracy for whatever reason, or

**10.3.2 Non-Functioning of Metering**

In the case of Metering ceasing to function, during the period from the date of such cessation; or

**10.3.3 Other Cases of Inaccuracy and Resolution**

In any other case, during the period from the time when such inaccuracy first occurred or, if such time is unknown, from the midnight preceding the day during which the disputed reading occurred, until the date of adjustment or replacement, repair or renewal of such Metering then the meter readings shall be deemed to be those calculated pursuant near to realistic value on the basis of load, voltage, power factor and duration of the case may be and in the case of disputes, the following shall be referred.

In the event that any Main Meter fails to register or, upon being tested, is found not to be accurate within + 0.2% but the Check meter is found to be accurate within + 0.2%, the electrical energy shall for the relevant period be measured on the basis of the value registered by the corresponding Check meter.

In the event that the Main Meter and the corresponding Check Meter both fail to register or, upon being tested, be found not to be accurate within + 0.2%, the electrical energy shall for the relevant period be adjusted by immediately restoring and recalibrating the Main Meter and the corresponding Check Meter and the correction applied to the consumption registered by the Main Meter.

For the purpose of the correction to be applied, the Main Meter shall be tested at 120, 100, 50 and 20 per cent load at unity power factor and 0.5 power factor lag. Of these values, the error at the load and power factor nearest the average monthly load served at the points of Supply during the relevant period shall be taken as the error to be applied for correction.

The print out of data and readings recorded in the memory of static energy meters, down loaded through meter reading instrument or otherwise shall also be recognized for the computation of energy and such other action as may be deemed necessary.

The relevant period referred to in the above clauses shall be the actual period during which inaccurate measurements were made if such period can be determined or, if not readily determinable, the shorter of (i) the period since the immediately preceding test of the relevant Main Meter and (ii) ninety (90) days immediately preceding the test at which the relevant Main Meter was determined to be defective or inaccurate.

**10.3.4 Voltage Transformer Fusing**

If any time a voltage transformer fuse or voltage selection relay on a circuit supplying a meter has failed with the result that the Metering is outside the prescribed limits of accuracy, the meter readings from the time the failures deemed to have occurred until the voltage transformer circuit is again restored to the meter, shall be deemed to be those calculated pursuant near to the realistic value on the basis of load, voltage, power factor and duration or the case may be, and in the case of disputes, shall be referred.

**11 PROCEDURE FOR RESOLUTION OF DISPUTES ON METERING**

**11.1 Disputes**

**11.1.1 General**

Any dispute relating to metering which would affect any payment to be made or reduced in respect of a Generating company / distribution licensee shall be dealt with in accordance with the relevant Disputes procedure.

**11.1.2 Referrals to the Metering Committee**

Any dispute in relation to the following matters shall be referred to the Metering Committee and if not resolved in the Metering Committee then referred to the Commercial Sub-Committee created under Grid Coordination Committee (GCC) envisaged in Delhi Grid Code. If the dispute is not resolved in the Commercial Sub-Committee, the matter would be referred to GCC whose decision shall be final and binding and shall be communicated to all parties concerned.

(a) Location of metering

(b) Technical specifications for Metering and associated installations like measuring transformers.

(c) Sealing of Tariff Metering.

(d) Compliance of Metering or Measuring Transformer with technical specifications of the Metering Code.

(e) Any other issue pertaining to interface metering which a party may raise.

(f) Procedure for Other Disputes

Any other dispute not covered under this Metering Procedure shall be dealt with in accordance the disputes procedure in the relevant connection Agreement.

(g) Testing of metering

Any testing of metering or measuring transformers required to settle a dispute shall be carried out in accordance with 10.3.3.

(h) Payment of Costs

The metering Committee shall have the power to order payment of costs and expenses in respect of any dispute referred to it in such manner, as it considers appropriate. The Metering Committee shall have the power to demand any information it may properly and reasonably require to settle a dispute from any Party and such Party shall provide the relevant information on request.

**11.2 Metering Committee**

**11.2.1 Composition of the Metering Committee**

The Metering Committee shall be appointed for the purposes of this Metering Procedures. The composition of the Metering Committee shall be decided by the Commercial Sub Committee created under Grid Coordination Committee (GCC) envisaged in Delhi Grid Code.

**11.2.2 Communicating Revisions to the Metering Code**

If, during any commercial sub committee meeting or GCC, it is decided to revise any part of the Metering Procedure, the decision shall be communicated in writing to the concerned committees. If the GCC approves the revised Metering Procedure, the same shall be forwarded to DERC for approval. The revised Metering Procedure shall be made affective from the date of the approval of revised Metering Procedure by DERC.

**11.3 Information**

**11.3.1 Provision of Information to DELHI TRANSCO LTD.**

All Parties shall give to DELHI TRANSCO LTD. all such information in their possession regarding metering which DTL shall reasonably require for the proper functioning including information regarding the dates and time periods for installation of new metering and the dates and periods when metering will be out of service.

**11.3.2 Dispute Resolution**

At the request of any Party which is a party to the dispute, any relevant data associated with the Metering in question shall be submitted by DELHI TRANSCO to the Metering Committee for the purpose of resolving such dispute.

**11.4 Ownership of Metering Data**

The interested party of any Metering shall own the data acquired there from. Any Party shall at all times have the right to access to the data and to use the same as may be permitted pursuant to this Metering Procedure free of charge. If the data is confidential, the party may only release such data to others to the extent required pursuant to this Metering Code or as permitted by the Connection Agreement.

**11.5 Settlement of Disputes**

The interested party and DTL shall agree demand settlement values for each demand settlement period, for each day from the expiry of the notice until the relevant Metering is installed and operational.

If agreement cannot be reached within 14 days, the matters may be referred to arbitration in accordance with the relevant Connection Agreement and payments will be made on the basis of values as reasonably determined by DTL pending a decision of the arbitrator. Payments shall be adjusted as appropriate at the time of suchdecision to take into account the Settlement values so determined since the date of such notice;

DTL shall take all such values into account and the interested party shall be bound to accept such values, for the purpose of electricity consumption until the relevant metering is installed and operational**:**

**12 Others**

**12.1 Amendments to Performa’s**

Performa’s set out in the Appendices to this Procedure may be amended from time to time by DTL upon reasonable notice to all Interested Parties. DTL shall also take into account the reasonable comments of Interested Parties. DTL shall put up the proforma to Commercial Sub-Committee for approval and in case Commercial sub-committee could not finalize the proforma, the matter would be referred to GCC for decision.

**12.2 Provision of Information to DELHI TRANSCO LIMITED**

All Parties shall give to DTL all such information in their possession regarding metering which DTL shall reasonably require for the proper functioning including information regarding the dates and time periods for installation of new metering and the dates and periods when metering will be out of service.

**12.3 Dispute Resolution**

At the request of any Party which is a party to the dispute referred for any relevant data associated with the Metering in question shall be submitted by DTL to the Commercial sub committee for the purpose of resolving such dispute and in case Commercial sub-committee could not resolve the dispute, the matter would be referred to GCC for decision. The decision of GCC shall be binding upon all parties.

**12.4 List of Intra State ABT Meters**

The list of meters using for energy accounting purposes at present is enclosed collectively as Annexure-A.

**13 OPERATIONAL METERING**

**13.1 Scope**

It specifies the facilities that shall be provided and the certain practices that shall be employed, for monitoring output and response of Power Stations, Generating Units, Grid Sub-Stations of DTL and distribution licensees for the control of the STS.

**13.2 Standards**

All references to industry standards which are currently at the effective date. Where Operational metering is in use at the effective date which was installed when earlier version of these standards (or their predecessors) were in force there is no requirement to update such Operational Metering unless expressly required.

Operational Metering installed after the Effective Date is required to comply with the version of any such standard in force on the date of installation.

Robustness and reliability are the most important attributes required for Operational Metering.

**13.3 Operating Characteristics**

SLDC shall have the right to advise the Generating Co., Distribution licensees and open access consumer to install Operational Metering so as to provide operational information in relation to each Generating unit and each power station, grid Sub-Station, power transformer, lines etc.

Information as required by SLDC, under the section 33(1) of Indian Electricity Act 2003, shall be presented continuously through Supervisory Control and Data Acquisition System (SCADA).

* 1. **Metering components**

**13.4.1 Energy meter:**

The meter shall be of class 0.5 or better. The meter shall measure all parameters in general required for grid audit, control and monitoring purpose. The meter shall be capable enough to provide information desired by SLDC from time to time.

13.4.2 Current Transformers

Current Transformers installed after the Effective Date shall comply with latest versions of ISS 2705/1992, IEC 185, and IEC 44-4 accuracy class not inferior to the meter installed and have a rated output of not less than 15 VA.

The Current Transformer secondary winding used for purposes of Interface and Operational Metering so long as such do not degrade the required accuracy outside limits (as required for interface metering).

**13.4.3 Voltage Transformers**

Voltage Transformers installed after the Effective Date shall comply with ISS 3156 - 1992 IEC - 186 (1987) accuracy not inferior to the meter installed and have a rated output of not less than 100VA per phase.

The voltage transformer secondary winding used for purposes of Interface and Operational Metering providing such do not degrade the required accuracy outside the limits (as required for interface metering).

**13.4.4 Power Supplies**

Operational Metering at Power Station shall be connected to assured power supplies. Where assured power supply is not available, voltage selection schemes shall be installed to support Operational Metering.

**13.5 Overall Accuracy of Equipment**

Metering shall be calibrated, so as to achieve Overall Accuracy of Operational Metering within the limits for meters of class 2.0.

## 13.5.1 Accuracy of Time keeping

The time keeping accuracy of Operational Metering shall be maintained in accordance with standard time.

## 13.5.2 Other Measurements

Overall accuracy requirements for all other electrical and non-electrical parameters shall be as determined by DTL with the agreement of the Commission after consultation with all Interested Parties.

**13.6 Periodic Calibration**

Operational Metering shall be tested not less than once in every five (5) years or otherwise as advised by the Commercial Sub Committee having regard to an acquired knowledge of the performance of the particular design of Operational Metering.

Operational metering shall be recalibrated following any adjustment or test.

**13.7 Test Access to Metering Equipment**

Test terminal blocks in accordance with ISS shall be provided to facilitate Operational Metering testing and/or current and voltage transformer checks. Non-electrical parameters shall be tested as agreed between DTL and the relevant Interested Party.

**13.8 Records**

The results of all calibration tests and recalibrations on Operational Metering and all periodic checks or recalibrations shall be kept for Inspectionat least for one year.

**13.9 Location of Meters**

The meters shall be mounted on the respective control panel of transformer/feeder in the Control Room.

GENERAL MANAGER (O&M)

DELHI TRANSCO LTD.

New Delhi

Dated :

 **Annexure-I**

**DELHI TRANSCO LTD.**

(Office of Manager(ICM), Park Street, New Delhi.)

 **ACCURACY TEST RESULTS OF ENERGY METER (MAIN/CHECK)**

Date of Testing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Time of Start \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Time of Completion \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Name of the Grid \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Duration \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Name of Feeder \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **B:- STANDARD METER DETAIL**
* Voltage level \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Make :- \_\_\_\_\_\_\_\_\_\_\_\_\_

**A :- DETAIL OF METER UNDER TES**T **S.No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

(a) S.No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ (h) Class of Accuracy 0.2 Accuracy Class =\_\_\_\_\_

(b) Make ELSTER (i) Wh/Impulse \_\_\_\_\_\_\_

(c) Type ALPHA(M+) (j) M.F.(O/A) \_\_\_\_\_\_\_ **Meter Display Parameters**

|  |  |  |
| --- | --- | --- |
|  | **At Start**  | **On Completion** |
| **Time** |  |  |
| **V1 (Volt)** |  |  |
| **V2 (Volt)** |  |  |
| **V3 (Volt)** |  |  |
| **I1 (Amp.)** |  |  |
| **12 (Amp.)** |  |  |
| **I3 (Amp.)** |  |  |
| **PF** |  |  |

 (d) C.T.(D) \_\_\_\_\_\_\_\_\_\_\_\_ (k) **Yard** (i) CTR : \_\_\_\_\_\_\_\_\_\_\_

(e) P.T.(D) \_\_\_\_\_\_\_\_\_\_\_ (ii) PTR : \_\_\_\_\_\_\_\_\_\_

 (f) M.F.(D) \_\_\_\_\_\_\_\_\_\_\_\_

 (g) Unit KWH

**NOTE:- The meter tested under shutdown/ without S/D by shorting C.T’s sec.**

 **D:- TEST RESULTS : - ACTIVE ENERGY**

|  |  |  |
| --- | --- | --- |
|  **S.No.** | **Injected Current** |  **UPF 0.5 Lag** |
| **Error** | **Standard Meter”E”** | **Actual Error** | **Acceptable limit of error as per IS 14697:1999 Clause 11.1** | **Error** | **Standard Meter”E”** | **Actual Error** | **Acceptable limit of error as per IS 14697:1999 Clause 11.1** |
| **1.** | **100%** |  | **0.015** |  | **0.2** |  | **0.015** |  | **0.3** |
| **2.** | **80%** |  | **0.014** |  | **0.2** |  | **0.014** |  | **0.3** |
| **3.** | **50%** |  | **0.013** |  | **0.2** |  | **0.013** |  | **0.3** |
| **4.** | **20%** |  | **0.014** |  | **0.2** |  | **0.013** |  | **0.3** |

 **Reading:**

|  |  |
| --- | --- |
| **R. Code At Start** | **On Completion** |
| **004 (KWH)** |  |
| **005 (KvArh)** |  |
| **006 (KvAh)** |  |
| **009 (KWH)** |  |
| **010(KvArh)** |  |
| **011(KvAh)** |  |

 **Exp**

 **Imp**

**Remarks**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Detail of Seals**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Witnessed by: Tested by:**

Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Designation \_\_\_\_\_\_\_\_Of NDPL/ BRPL/BYPL/MES/NDMC Designation \_\_\_\_\_\_\_\_\_\_\_ Of DTL (Transco)

 **ANNEXURE.II**

 DELHI TRANSCO LTD

 **(Office of Manager(ICM), Park Street, New Delhi.)**

METER REMOVAL/REPLACEMENT/INSTALLATION SHEET

01. Name of Grid \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 02. Name of the Feeder \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

##### 03. Location of the Meter \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 04. Voltage Level \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 (OLD) (NEW) (OLD) (NEW)

05. S. No. of Meter \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ 06. Type/Pulse Rate \_\_\_\_\_\_\_\_\_\_ ALPHA(M+)/0.12Wh/Imp.

07. Meter Make \_\_\_\_\_\_\_\_\_\_\_\_\_ ELSTER 08. Class of accuracy \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

09. Status MAIN \_\_\_\_\_ CHECK Dial Factor/Unit \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_1000 / KWH\_\_\_

###

**11. (a) CTR : \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Yard (a) CTR : \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **(b) PTR : \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ (b) PTR : \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**12. Reading M.F.** **: \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **13. METER READING DATA Energy Assessment Data**

 **(When main meter was out of Service with loaded feeder)**

|  |  |
| --- | --- |
| OLD | NEW |
| UNIT | READINGS | **UNIT****Id No.** | READINGS |
| **MWh** |  | **004** | **KWh Delivered** |  |
| **MVARh(Lag)** |  | **005** | **KVARh “** |  |
| **MVARh(Lead)** |  | **006** | **KVAh “** |  |
| **MVAh** |  | **009** | **KWh Recd.** |  |
|  |  | **010** | KVARh “ |  |
|  |  | **011** | **KVAh “** |  |

|  |  |  |
| --- | --- | --- |
|  |  At Start | On Completion |
| **Time** |  |  |
| **I1 (Amp.)** |  |  |
| **I2 (Amp.)** |  |  |
| **I3 (Amp.)** |  |  |
| **V1 (Volts)** |  |  |
| **V**2**(Volts)** |  |  |
| **V3****(Volts)** |  |  |
| **P.F.** |  |  |

14. Date and time of replacement on \_\_\_\_\_\_/\_\_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_\_\_/ at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hrs.

**15. Reason for replacement) : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **16. Provision of Seals \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**17. Remarks \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **Designation \_\_\_\_\_\_\_of NDPL/ BRPL/BYPL/NDMC/MES Designation \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_of DTL**

ANNEXURE.III

DELHI TRANSCO LIMITED

**(Office of Manager (ICM), Park Street, New Delhi.)**

**CT RATIO CONFIRMATION AT INTER COMPANY**

**EXCHANGE POINT**

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Time \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name of Grid substation \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Standard injection meter Detail

Name of Feeder \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Sr. No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CT Ratio as per Name Plate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Make \_\_\_\_\_\_\_\_\_\_ Accuracy Class\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CT Ratio Printed on Panel \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Validity \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Phase | Sr. No | Make | VA Burden | Accuracy Class |
| R |  |  |  |  |
| Y |  |  |  |  |
| B |  |  |  |  |

|  |  |
| --- | --- |
| INJECTED CURRENT IN AMPERES | OUTPUT RATIO AND PHASE DISPLACEMENT  |
| `R’ PHASE | `Y’ PHASE | `B’ PHASE |
| RATIO ERROR  | PHASE DISPLACEMENT | RATIO ERROR  | PHASE DISPLACEMENT | RATIO ERROR  | PHASE DISPLACEMENT |
| 1 (120%) |  |  |  |  |  |  |  |
| 2 (100%) |  |  |  |  |  |  |  |
| 3 (20%) |  |  |  |  |  |  |  |
| 4 (5%) |  |  |  |  |  |  |  |
| Overall Ratio Error | \_\_\_\_\_\_\_% | \_\_\_\_\_\_\_% | \_\_\_\_\_\_\_% |
| Over All Phase Angle Error | \_\_\_\_\_\_\_% | \_\_\_\_\_\_\_% | \_\_\_\_\_\_\_% |
| Burden (as found) | \_\_\_\_\_\_VA | \_\_\_\_\_\_VA | \_\_\_\_\_\_VA |

OVERALL CTR \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ERROR % \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CONCLUSION \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

REMARKS \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Rep. Of NPDL/BYPL/BRPL/NDMC/MES Rep. Of DTL**

**Sig.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Name** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Deign.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ANNEXURE.IV

DELHI TRANSCO LIMITED

**(Office of Manager (ICM), Park Street, New Delhi**

**PT RATIO CONFIRMATION AT INTER COMPANY**

**EXCHANGE POINTS**

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Time \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name of Grid substation \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Standard injection meter Detail

Name of Feeder \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Sr. No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CT Ratio as per Name Plate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Make \_\_\_\_\_\_\_\_\_\_ Accuracy Class\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CT Ratio Printed on Panel \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Validity \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Phase | Sr. No | Make | VA Burden | Accuracy Class |
| R |  |  |  |  |
| Y |  |  |  |  |
| B |  |  |  |  |

|  |  |
| --- | --- |
| INJECTED VOLTAGE IN VOLTS | OUTPUT RATIO AND PHASE DISPLACEMENT  |
| `R’ PHASE | `Y’ PHASE | `B’ PHASE |
| RATIO ERROR  | PHASE DISPLACEMENT | RATIO ERROR  | PHASE DISPLACEMENT | RATIO ERROR  | PHASE DISPLACEMENT |
| 1 (120%) |  |  |  |  |  |  |  |
| 2 (100%) |  |  |  |  |  |  |  |
| 3 (20%) |  |  |  |  |  |  |  |
| 4 (5%) |  |  |  |  |  |  |  |
| Overall Ratio Error | \_\_\_\_\_\_\_% | \_\_\_\_\_\_\_% | \_\_\_\_\_\_\_% |
| Over All Phase Angle Error | \_\_\_\_\_\_\_% | \_\_\_\_\_\_\_% | \_\_\_\_\_\_\_% |
| Burden (as found) | \_\_\_\_\_\_VA | \_\_\_\_\_\_VA | \_\_\_\_\_\_VA |

OVERALL CTR \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ERROR % \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CONCLUSION \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

REMARKS \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Rep. Of NPDL/BYPL/BRPL/NDMC/MES Rep. Of DTL**

**Sig.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Name** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Deign.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

###### ANNEXURE – V

DISCREPANCY REPORT FOR THE INTERFACE INTRASTATE ABT METER

Meter No.: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Location of installation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date & Time of Checking: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Voltage at the Panel at the time of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Checking:

|  |  |  |
| --- | --- | --- |
| **Date &****Time Block** | **Voltage/Current Supply recorded** **at the meter terminal** | **Voltage/Current Supply recorded at the Field** **(CT/CVT MB)** |
| **R-Phase Voltage** | **Y-Phase Voltage** | **B-Phase Voltage** | **R-Phase Current** | **Y-Phase Current** | **B-Phase Current** |
|  |  |  |  |  |  |  |

REMARKS:

**1. Any other findings noted by the site personnel.**

**2. Possible reasons for the discrepancy in the metering system.**

 **NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**DESIGNATION:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **COMPANY:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

###### ANNEXURE – VI

REQUEST TO BREAK SEALS

To : [DTL/Interested Party] Date: [ ]

Tel: [ ]

Fax: [ ]

INTERESTED PARTY:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_SERIAL NO:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**DETAILS OF WORK TO BE CARRIED OUT**

We request for permission to carry out the work described below and to break such seals as are necessary. We estimate the duration of the work to be from [ ] to [ ]

The work is to be carried out at site by [ ].

The description of the work is as follows:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The circuits and meters to be affected are as follows:

|  |  |
| --- | --- |
| **CIRCUIT/METER ID** | **COMMENTS** |
|  |  |
|  |  |

**FROM:**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Position\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

###### ANNEXURE – VI

COMMENTS OF RECIPIENTS:

We acknowledge receipt of your request dated [ ]. We hereby [give/withhold]\* consent. Our reasons for withholding consent are [ ]. Our representative dealing with sealing is [ ]. He will/ will not be attending when the work is carried out.

**By:**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Position\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CONFIRM COMPLETION OF WORK AND SEALS APPLIED:

DESCRIPTION OF COMPLETED WORK:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Position\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**(INTERESTED PARTY)**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Position\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

[\* Delete as appropriate]