

A Presentation on

PoC Billing

Bill # 3

**As per
CERC Sharing Regulations, 2010**

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Open Access in Inter-State Transmission System

Open Access	Grant Period As per New Amendment (Mar'17)	Grant Responsibility
Long Term Access (LTA)	Above 7 years	CTU
Medium Term Open Access (MTOA)	3 months to 5 Years	CTU
Short Term Open Access (STOA)	Day to 3 months	RLDC/ Power Exchanges

Pre-PoC Method

- Sharing of transmission charges and transmission losses in past (Pre – PoC period): on the basis of Regional Postage Stamp Method.
- All States in the Region were sharing the transmission charges and Losses on a Regional pool basis, in the ratio of the quantum of power allocated in ISGS .

CERC Sharing Regulations, 2010

- CERC notified CERC (Sharing of Inter-State Transmission Charges and Losses) Regulation, 2010 (Sharing Regulation). The method of billing is known as Point of Connection (POC) Mechanism.
- Implemented w.e.f 01.07.2011

Important Features of Sharing Regulation

All users {Designated ISTS Customers (DICs)} of ISTS network have to share the ISTS Tariff.

The DICs include :-

- Withdrawal DIC like SEBs, DISCOMs
- Injection DICs like Generators NTPC, NHPC etc.
- Bulk Consumers availing Open Access to ISTS (LTA/MTOA)

Important Features of Sharing Regulation

Responsibilities for POC mechanism

A) National Load Dispatch Centre (NLDC):

Notified as Implementing Agency for carrying out Load Flow Studies, Data Collection, Pooling of Transmission tariff of all ISTS Licensees and Determination of PoC Rates (Rs / MW/ Month) for approval of CERC depending upon YTC and other details.

POC rates are being determined on quarterly basis w.e.f. 01.04.2013.

Important Features of Sharing Regulation

Responsibilities for POC mechanism

B) Validation Committee :

Comprises representatives from CERC, NLDC, CTU and DICs. Committee shall validate the data submitted by ISTS Licensees, DICs, Generators etc for computation of PoC charges.

Important Features of Sharing Regulation

Responsibilities for POC Mechanism

C) Regional Power Committees (RPCs):

- Issue Regional Transmission Accounts (RTA) & Regional Transmission Deviation Accounts (RTDA) every month, on the basis of approved POC rates.
[Deviation : Scheduled - Actual]
- RTAs/RTDAs provide details of Transmission Charges to be billed to each DIC based on CERC notified PoC rates.

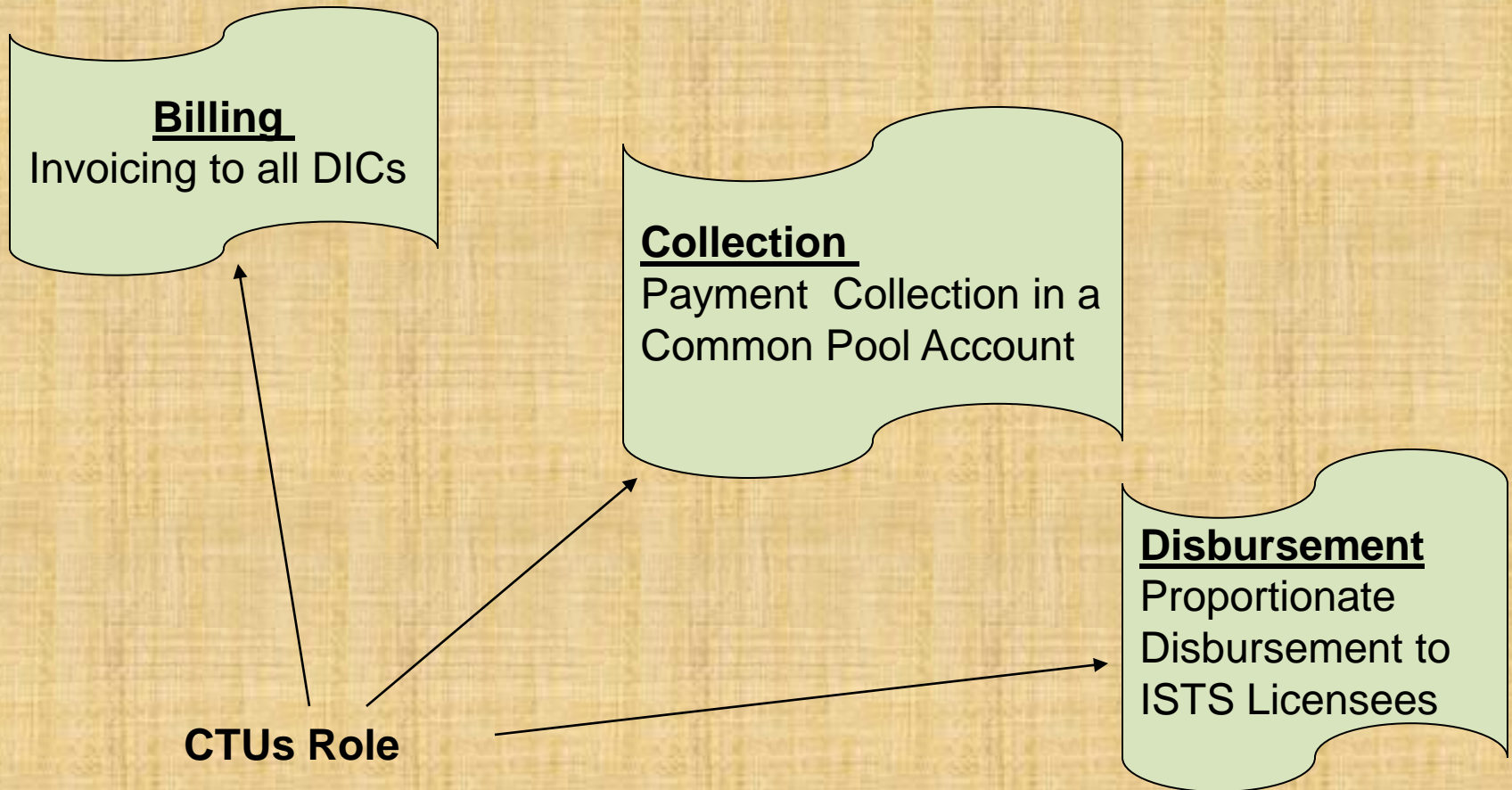
Important Features of Sharing Regulation

Responsibilities for POC Mechanism

D) Central Transmission Utility (CTU):

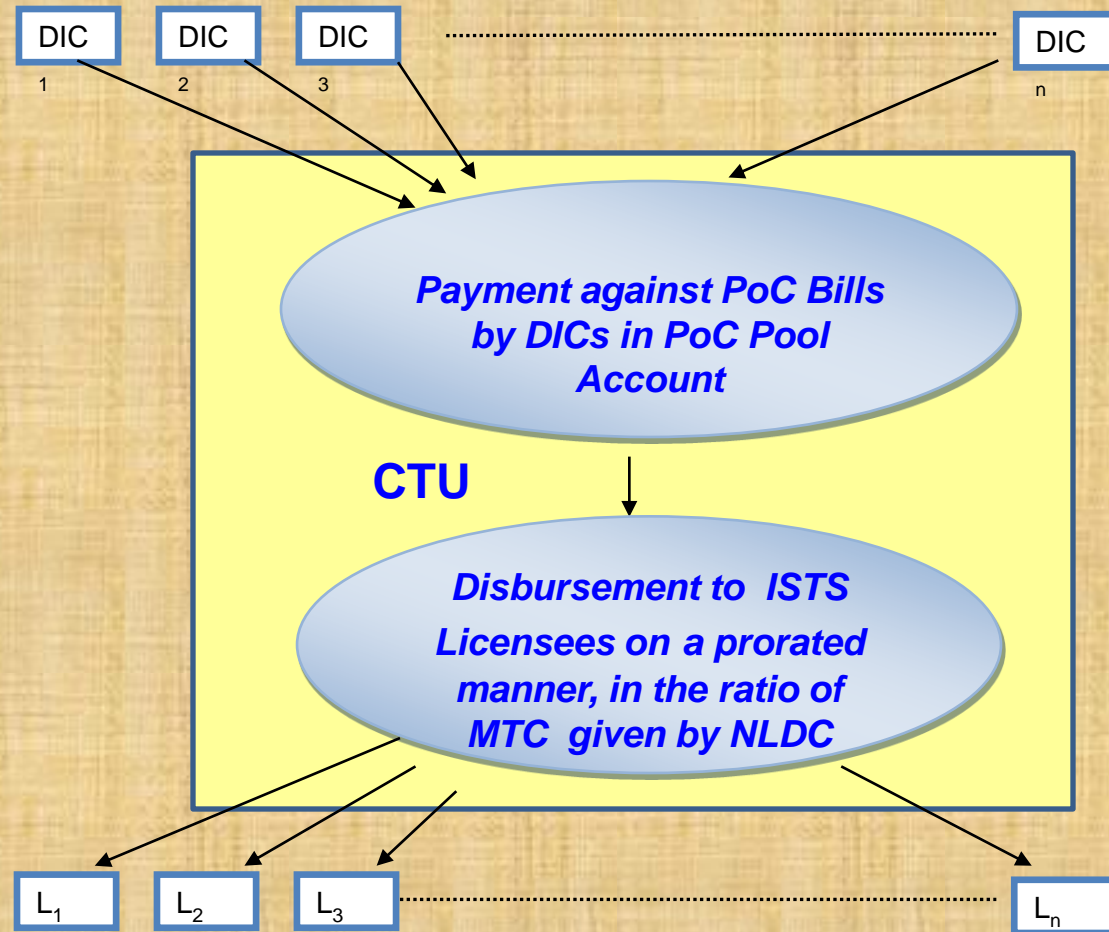
- Responsible for Billing to DICs as per RTA / RTDA on behalf of all ISTS Licensees and Collection & Disbursement of ISTS Charges.
- Shall sign TSA & RSA agreements with ISTS Licensees and DICs for smooth Implementation of POC mechanism.

Summary of CTU Role under Sharing Regulation



Note : No separate billing by ISTS Licensees

Collection & Disbursements by CTU



Note : No direct payment by DICs to Licensees

Agreements Under Sharing Regulation

For smooth implementation of Billing, Collection and Disbursement Process, the following agreements shall be signed by all the ISTS Licensees and DICs with CTU :-

(i) Transmission Service Agreement(TSA)

- By all DICs & ISTS Licensees

(ii) Revenue Sharing Agreement (RSA)

- By all ISTS Licensees

Present Status of ISTS Tariff Billing by CTU

- Total no. of ISTS Licensees - 57
- Total no. of DICs - 125
- Monthly Billing (Nov,2018)
 - All Licensees - Rs. 2880 Cr.
 - POWERGRID - Rs. 2422 Cr.

Invoicing

Billing mechanism as per BCD Procedure :-

- As per approved BCD procedure, 5 types of bills are raised by CTU to recover Transmission tariff in accordance with Sharing Regulation.

Invoicing – Bill #1

- This is the main bill raised every month. The billing is based on monthly Regional Transmission Account (RTA) issued by RPCs
[which comprises of Allocation by GoI, LTA, MTOA]
- Adjustments in Bill # 1 – Credits are given to Long Term Customers:-
 - STOA / MTOA Credit, including offset
 - Bill # 2 Credit against Addl. MTOA
 - Bill # 4 Credit against Regional Transmission Deviation account
 - Rebate Adjustment

Note : The amount collected from Bill#2 & Bill #4 is not revenue of ISTS Licensees.

Invoicing – Bill # 2

- PoC Charges collection from Bill # 2 (Addl. MTOA) shall be reimbursed to Long Term Customers (i.e., Bill #1 DICs) in the ratio of Bill # 1 of same month for which Bill # 2 has been raised.
- Amount collected from Bill #2 is not revenue of ISTS Licensees

This Bill is raised every month. [Amount is dependent on Addl MTOA if any to be billed]

Invoicing – Bill # 3

Bill # 3 of all the ISTS Licensees

- Is pooled and raised to adjust following
Shifting of DOCO, Incentive for availability of system (Projected vs Actual), Recovery of Incremental MAT, Revenue sharing from Telecom Business, FERV, License Fee & Petition fee paid to CERC, Fees/ Charges paid by ISTS Licensees to RLDC, Any other Charges approved by CERC
- From Apr,2013 onwards, Bill # 3 is being raised on quarterly basis. Earlier, bill was raised on biannual basis.
- Payment collected against Bill#3 shall be disbursed to ISTS Licensees in the ratio of Amount billed on their behalf.

This bill is a truing up activity and is done at end of every quarter.

Tariff Determination

- As per Tariff Regulations
 - Tariff determined by CERC on Multi Year Tariff (MYT) basis – presently for 5 year block
- TBCB
 - Tariff discovered by competitive bidding for full asset life. Same is adopted by CERC

Start of Billing

- Only after declaration of Commercial Operation of the Assets by Licensee and its approval by CERC, Billing can be started.
- In case tariff is to be determined by CERC (Cost plus basis), petition is filed before CERC by Transmission Licensee for determination of tariff.
- CERC after preliminary check generally allowed provisional tariff which is generally in the range of 80 to 90 % of tariff claimed.

Types of Billing for an Asset

- PoC – If CERC is satisfied that Assets is to be included in PoC, then it grants provisional tariff and direction for sharing of its tariff is as per Sharing Regulations 2010.
- Bilateral- If CERC is of the opinion that Asset can not be included in PoC due to various reasons then billing happens only bilateral as per CERC direction.

PoC Billing of an Asset

- Asset is included in YTC data submitted by ISTS Licensee to Implementing Agency (NLDC) for next quarter.
- If asset is considered by NLDC in PoC Computations then its billing is started through Bill-1 as per tariff approved by CERC (Provisional or full tariff)

PoC Billing of an Asset

- PoC rates are notified by CERC on quarterly basis.
 - PoC Rates
 - Reliability Support Rates
 - HVDC Rates
 - HVDC BNC-Agra shared by all beneficiaries
 - HVDC back to back shared by all beneficiaries
 - Regional HVDC bipole link shared by dedicated beneficiaries
- Based on PoC rates and approved withdrawal (MW) RPC issues Regional Transmission Account (RTA)
- Based on RTA, CTU issues Bill-1 to all DICs(beneficiaries of ISTS)

Recovery of MTC through bill # 1 ?

- Due to various assumptions, slabbing of PoC rates, Change in allocations etc. Bill # 1 does not matches the MTC of ISTS Licensees.
- There is continuous hearing in CERC for final tariff determination of various assets and CERC issues tariff orders on continuous basis resulting continuous change in MTC to be recovered.
- Certification of availability of Trans. System by RPC?
- Bill # 3 takes care of above issues.

Recovery of MTC through bill # 1 ?

- Bill # 3 is issued generally two month after end of each quarter of FY and after certification of availability by RPCs.
- Bill # 3 is generally a sort of quarterly true up exercise.
- Misc. Other charges such as FERV, Petition filing fee, License fee etc as allowed by CERC are also included in Bill # 3 so that limited number of bills are raised in a year (12 nos. bill # 1 & r nos. Bill # 3)

Clause (6) of Regulation 11

The third part of the bill shall be used to adjust any variations in FERV, Incentive, rescheduling of commissioning of transmission assets, arrears due to any revision Order etc. as allowed by the Commission for any ISTS Transmission Licensee. Total amount to be recovered or reimbursed on account of such under-recovery or over-recovery shall be billed by the CTU to each DIC in proportion of its average Approved Injection or Approved Withdrawal Charges over the relevant PoC application period. This part of the bill shall be raised on first working day of September, December, March and June for the previous PoC application period.

Trans. Charges payable for a month (MTC)

The Transmission charge (inclusive of incentive) payable for a calendar month for transmission system or part shall be :

For AC system:

a) For TAFM < 98%

$$\text{AFC} \times (\text{NDM/NDY}) \times (\text{TAFM}/98\%)$$

b) For TAFM: $98\% < \text{TAFM} < 98.5\%$

$$\text{AFC} \times (\text{NDM/NDY}) \times (1)$$

c) For TAFM: $98.5\% < \text{TAFM} < 99.75\%$

$$\text{AFC} \times (\text{NDM/NDY}) \times (\text{TAFM}/98.5\%)$$

d) For TAFM > 99.75%

$$\text{AFC} \times (\text{NDM/NDY}) \times (99.75\%/98.5\%)$$

Trans. Charges payable for a month (MTC)

For HVDC bi-pole links and HVDC back-to-back Stations:

a) For $\text{TAFM} < 95\%$

$$\text{AFC} \times (\text{NDM/NDY}) \times (\text{TAFM}/95\%)$$

b) For TAFM : $95\% < \text{TAFM} < 96\%$

$$\text{AFC} \times (\text{NDM/NDY}) \times (1)$$

c) For TAFM : $96\% < \text{TAFM} < 99.75\%$

$$\text{AFC} \times (\text{NDM/NDY}) \times (\text{TAFM}/96\%)$$

d) For $\text{TAFM} > 99.75\%$

$$\text{AFC} \times (\text{NDM/NDY}) \times (99.75\%/96\%)$$

Bill-3 Main Calculation

A. Actual MTC of POWERGRID as per certified availability					
					Rs. In Lakh
Sr. No.	Region	Apr-18	May-18	Jun-18	Total
1	NR	63173.25	65541.01	63426.78	192141.04
2	WR	76929.93	79138.89	76507.43	232576.25
3	SR	37049.18	38291.67	37056.46	112397.31
4	ER	24155.93	24961.13	24155.93	73272.99
5	NER	6851.40	7079.78	6851.40	20782.59
6	ULDC	682.22	704.96	682.22	2069.39
7	HVDC-NR	13006.61	13440.16	5082.34	31529.11
8	HVDC-SR	1840.68	1903.78	1832.93	5577.39
9	HVDC-POOL	1787.32	1846.89	1787.32	5421.53
10	HVDC BNC-Agra	11864.39	12259.87	11864.39	35988.65
11	HVDC Champa-Kurukshetra			7924.27	7924.27
12	Apr'18 to Jun'18 interest portion	44.51	25.77	6.08	76.36
	PGCIL-Total MTC	237385.41	245193.92	237177.54	719756.86

Bill-3 Main Calculation

B. Actual MTC of All ISTS Licensees as per certified availability					
Sr. No.	ISTS Licensees	Apr-18	May-18	Jun-18	Total
1	Power Grid Corporation of India	237385.41	245193.92	237177.54	719756.86
2	Powerlinks Transmission Ltd.	1843.58	1900.62	1831.00	5575.20
3	Western Region Transmission	995.04	1028.21	995.04	3018.30
4	U.P. Power Transmission Corporation	226.88	226.88	226.88	680.64
5	Rajasthan Rajya Vidyut Prasaran	312.00	312.00	312.00	936.00
6	Power Developmemt Department	84.27	84.27	84.27	252.80
7	Gujrat Energy Transmission	47.59	47.59	47.59	142.78
8	Maharashtra State Electricity	814.03	814.03	814.03	2442.09
9	Western Region Transmission	540.58	558.48	539.98	1639.04
10	Jaypee Powergrid Ltd.	1566.12	1598.04	1566.12	4730.28
11	Torrent Power Grid Ltd.	396.07	409.27	396.07	1201.40
12	Jindal Power Ltd.	159.11	164.42	159.11	482.64
13	North East Transmission Company	2670.37	2767.91	2670.37	8108.65
14	Essar Power Transmission	563.92	581.16	563.13	1708.21

Bill-3 Main Calculation

15	East North Interconnection	1185.78	1234.58	1194.76	3615.12
16(a)	Adani Power Limited-HVDC	5542.69	5727.45	5541.03	16811.17
16(b)	Adani Power Limited-AC	1027.64	1063.02	1029.04	3119.70
17	Prabati Koldam Trasmission	1306.46	1350.01	1306.46	3962.92
18	Aravali Power Company Pvt. Ltd.	106.30	109.85	106.30	322.45
19	Bhopal Dhule Transmission Co. Ltd.	2144.48	2215.97	2071.96	6432.41
20	Raichur Sholapur Transmission Compa	289.32	298.96	289.32	877.59
21	West Bengal State Electricity	267.07	267.07	267.07	801.21
22	Odisha Power Trans Corp Ltd	97.22	97.22	97.22	291.66
23	Jabalpur Trans Co Ltd	1771.20	1829.17	1747.58	5347.95
24	RAPP TRANSMISSION COMPANY LIMITED	374.37	386.85	374.37	1135.59
25	HARYANA VIDYUT PRASARAN NIGAM LTD	67.45	67.45	67.45	202.35
26	TAMIL NADU TRANSMISSION CORP. LTD	101.37	101.37	101.37	304.11
27	ASSAM ELECTRICITY GRID	89.83	89.83	89.83	269.50
28	POWERGRID VIZAG	2451.76	2533.66	2452.09	7437.50
29	Meghalaya Power Transmission Compan	30.10	30.10	30.10	90.30
30	NRSS XXIX Transmission Ltd	884.29	913.77	884.29	2682.36
31	Purulia & Kharagpur Transmission Co	615.30	636.44	615.91	1867.64

Bill-3 Main Calculation

32	Madhya Pradesh Power Transmission C	98.50	98.50	98.50	295.50
33	Chhattisgarh State Power Transmissi	85.76	85.76	85.76	257.28
34	Delhi Transco Ltd.	124.48	124.48	124.48	373.43
35	KSEB	83.83	83.83	83.83	251.50
36	Karnataka Power Transmission Corpor	267.80	267.80	267.80	803.39
37	KUDGI TRANSMISSION LIMITED	1669.81	1725.47	1613.34	5008.62
38	HIMACHAL PRADESH POWER TRANMISSION	22.00	22.00	22.00	66.00
39	POWERGRID UNCHAHAR TRANSMISSION	159.90	165.23	159.90	485.02
40	BHAKRA BEAS MANAGEMENT BOARD	0.00	0.00	0.00	0.00
41	PATRAN TRANSMISSION COMPANY LIMITED	212.26	219.36	212.31	643.92
42	NRSS-XXXI (B) TRANSMISSION LIMITED	751.19	776.23	751.19	2278.61
43	DARBHANGA MOTIHARI TRANSMISSION	925.79	948.42	747.99	2622.20
44	POWER TRANSMISSION CORPORATION (PTCUL)	255.87	255.87	255.87	767.61
45	TEESTAVALLEY POWER TRANSMISSION LTD	281.23	290.60	281.23	853.06
46	MAHESHWARAM TRANSMISSION LTD	473.01	488.78	473.01	1434.79
47	NRSS XXXVI TRANSMISSION LIMITED	10.53	10.88	10.53	31.93
48	APTRANSCO	675.00	675.00	675.00	2025.00
49	POWERGRID Parli TransmissionLimited	149.56	1159.09	2459.90	3768.55
50	Khargone Transmission Limited				0.00
51	PSITSL				0.00
52	CWRTL	79.11	235.86	307.29	622.26
53	PAKTL	68.90	71.20	68.90	209.01
	Total	272352.12	282343.89	274348.12	829044.12

Bill-3 Main Calculation

C. Bifurcation of MTC as per Ammendment -3 to Sharing Regulation					
Sr. No.	Description	Apr-18	May-18	Jun-18	Total
1	PoC	218316.13	226413.80	220120.34	664850.28
2	Rel Supp	26680.94	27661.64	26880.71	81223.30
3	HVDC-NR	11705.95	12096.15	4574.10	28376.20
4	HVDC-SR	1656.61	1713.40	1649.63	5019.65
5	HVDC-APL MUNDRA	3314.53	3425.01	3313.53	10053.08
6	HVDC BNC-Agra	10677.95	11033.88	10677.95	32389.78
7	HVDC Champa-Kurukshetra			7131.84	7131.84
	Total	272352.12	282343.89	274348.12	829044.12

D. Already Billed as per RTA					
Sr. No.	Description	Apr-18	May-18	Jun-18	Total
1	PoC	208093.61806	205684.64783	215257.82858	629036.09
2	Rel Supp	24707.34351	24531.69325	25486.71353	74725.75
3	HVDC-NR	9857.40589	9830.24703	4800.12533	24487.78
4	HVDC-SR	1712.97518	1726.03667	1796.68185	5235.69
5	HVDC-APL MUNDRA	3499.38039	3499.38039	3506.39293	10505.15
6	HVDC BNC-Agra	7569.89938	7516.08317	7851.50400	22937.49
7	HVDC Champa-Kurukshetra	0.00000	0.00000	7592.39943	7592.40
	Total	255440.62	252788.09	266291.65	774520.36

Bill-3 Main Calculation

E. Difference to be billed(C-D)					
Sr. No.	Description	Apr-18	May-18	Jun-18	Total
1	PoC	10222.52	20729.15	4862.52	35814.18
2	Rel Supp	1973.60	3129.95	1394.00	6497.55
3	HVDC-NR	1848.54	2265.90	-226.02	3888.42
4	HVDC-SR	-56.36	-12.64	-147.05	-216.05
5	HVDC-APL MUNDRA	-184.85	-74.37	-192.86	-452.08
6	HVDC BNC-Agra	3108.05	3517.80	2826.45	9452.29628
7	HVDC Champa-Kurukshetra	0.00	0.00	-460.56	-460.55656
	Total	16911.49	29555.80	8056.47	54523.76

Deviation Charges – Bill 4

In case the metered MWs (ex-bus) of a power station or the aggregate demand of a Designated ISTS Customer exceeds, in any time block,

- (a) In case of generators: The Approved Injection + Approved Additional Medium Term Injection + Approved Short Term Injection or;
- (b) In case of demand customers: The Approved Withdrawal + Approved Additional Medium Term Withdrawal + Approved Short Term Demand,

Invoicing – Bill # 4

- Raised to DICs having deviation in excess from approved Injection/Withdrawal.
- Raised as per Regional Transmission Deviation Account (RTDA) issued by RPC on monthly basis.
- Amount collected from Bill # 4 (Deviation bill): to be passed on to Long term customers (Bill#1 DICs) in the ratio of Bill # 1 of same month for which Bill # 4 has been raised.
- Amount collected from Bill #4 is not revenue of ISTS Licensees

This bill is raised every month as per Regulations, but is raised when deviations occur .

Invoicing – Bill # 5

- Bill # 5 shall be raised to recover Surcharge and Misc. Charges as allowed by CERC such as Security Expenses etc based on input provided by ISTS Licensees.
- Amount collected against Bill # 5 (Misc.charges) is disbursed to respective ISTS Licensees as per their share in Bill # 5 billing amount.
- Surcharge recovered is disbursed to all the Licensees in the ratio of their MTCs.

This is raised every month to bill the defaulting DICs.

GENERAL PROVISIONS

- Disbursement of transmission charges to ISTS Licensees for each Invoice shall be made within three (3) working days after the receipt of such payments in the PoC Pool account.
- CTU shall issue a Revenue Share Statement to the ISTS Licensees for all disbursements.
- CTU shall credit disbursement amount in accordance with the Revenue Sharing Statements to the bank accounts of ISTS Licensees directly.
- Joint Reconciliation with DICs and ISTS licensees.

GENERAL PROVISIONS

- **Payment Security Mechanism:**

- LC to be established by all DICs (105 % of average bill # 1 of last application period (12 months of FY) in case of Govt DICs (State Utilities) and 210 % in case of Private & other DICs.

- **Surcharge for Delayed payment**

- Surcharge is applicable on outstanding exceeding 60 days @ 1.5 % month.

- **Incentive for Timely payment**

- Graded Rebate for timely payments as per [CTU Special Rebate Policy](#).

Reporting requirements for the CTU

Periodic reports to be submitted to each of the ISTS Licensees shall comprise of:

- Details of total transmission charges billed to and collected from the DICs
- Details of the payment defaults made by the DICs
- Delayed Payment Surcharge collected from the DICs
- Rebates paid to the DICs
- Details of total transmission charges disbursed to the ISTS Licensees

Dispute Resolution

- In case of billing dispute, DIC shall issue 'Bill Dispute Notice' to CTU within 30 days of receiving the bill.
- If CTU agrees to the claim, it shall revise the bill within 7 days of receiving such notice. If CTU does not agree, shall issue 'Notice of disagreement' to the DIC within 15 days of receiving such 'Bill dispute notice'.
- Subsequently, DIC & CTU shall try to amicably resolve the issue 30 days of receiving the disagreement notice from CTU. If the dispute could not be resolved amicably, either party may approach CERC for adjudication of the dispute.
- If the dispute is settled in favour of the DIC, then CTU shall credit the excess amount through adjustment in the relevant Bill of the next month. If the dispute is settled in favour of the CTU, then such amount as disputed shall be payable by the DIC along with Late Payment Surcharge, as applicable.

Recovery of dues in case of default by DICs

➤ Encashment of Letter of Credit (LC)

LC can be encashed if dues are unpaid beyond 60 days.

➤ Regulation of Power Supply (RoP) of defaulting DICs

RoP, as per CERC (Regulation of Power Supply), Regulation, 2010, can be resorted to when a DIC

- a) defaults in making payment beyond 60 days or
- b) defaults in establishing requisite Letter of Credit as Payment Security mechanism.

By regulating the power supply of the DICs, the allocated power of these DICs (LTA/MTOA) from Central Generating Stations is curtailed.

- **Regulation of Power Supply (RoP)**

The process of Regulation of Power Supply will have following effects

- a) The regulated entity has to purchase the power in open market to meet their demand or else have to curtail their demand.
- b) Such regulated power available with the generator is sold in the open market and revenue earned, after meeting the incidental expenses of generating stations, is passed onto the CTU for adjustment towards the outstanding dues.

The above situation forces the DICs to clear the outstanding dues to enable withdrawal of regulation of power supply.

- Regulation of Power Supply – Recovery of Dues**

Since Jul'11, Regulation of Power supply has been resorted in case of many defaulting DICs. In most of the cases, the regulation of power supply has been withdrawn on realization of dues or receipt of commitments by DICs.

Rs in Crores

DIC	RoP during	Regulated Power	Dues Realized	LC made	Remarks
UP	Mar'13	800 MW	517	102	Dues realized
BRPL	Feb'13-Apr'13	254 MW	40	22	Dues realized
BYPL	Feb'13-Apr'13	288 MW	115	17	Agreed to pay in 10 inst. Dues realized .
J&K	Apr'13	80 MW	57	-	Dues realized & Regln was withdrawn.
Meghalaya	Oct'13	ROP with NTPC	-	-	Agreed to make payment in instalments
Bihar	Feb'14	230MW	305	-	Agreed to pay in inst. & Regln withdrawn. Dues realized.
BRPL	Mar'15	20% of Sch.	48	-	Dues realized & Regln withdrawn.
BYPL	Mar'15	20% of Sch.	30	-	

Recovery of dues in case of default by DICs

➤ Curtailment of STOA

In a petition (Pet no. 142/2012) filed by CTU for removal of difficulties in regulating the power supply a defaulting DIC, CERC vide its Order dtd 14.09.2015 facilitated the following :-

- ❖ While regulating the power supply of a defaulting DIC, NLDC/RLDCs shall deny STOA transactions of the DIC.
- ❖ CTU need not approach CERC and is empowered to request NLDC/RLDCs to curtail the STOA transactions of a defaulting DIC, independent of implementing the Regulation of Power Supply, provided the dues of such DIC exceed 120 days.

(Recently, notices have been issued to many DICs to pay the dues exceeding 120 days, else to curtail their STOA).

- Notices for Regulation of Power Supply / STOA Curtailment in Nov'16**
– Recovery of Dues >60 days

Notices for Regulation of Power Supply, that includes STOA curtailment, have been issued to the following DICs in Nov'16 (04.11.2016) and dues of Rs 971 Cr. out of Rs 1067 Cr. have been realized as on 28.11.2016 and the notices are either withdrawn or expected to be withdrawn shortly.

Rs in Crores

DIC	Regulated Power	Total Dues	Dues Realized	LC made	Remarks
UP	1200MW	446	386	-	Dues being realized
Rajasthan Discoms	500 MW	153	153	-	Dues realized, Regn withdrawn
J&K	300 MW	88	88	-	Dues Realized, Regn withdrawn.
Bihar Discoms	380 MW	184	57	-	Dues being realized
HESCOM, Karnataka	150 MW	53	53	16	Dues realized & LC made. Regn withdrawn
Assam	200 MW	123	115	36	Dues being realized.
Meghalaya	41 MW	20	13	-	Dues being realized
Total		1067	971		

MTC Growth of ISTS Licensees in various POC Periods (Approved by CERC/NLDC)

Rs in Crores

POC Period	Approved MTC	Share of POWERGRID	Share of Other Licensees
Jul'11-Dec'11	729	683 (93.6%)	46 (6.4%)
Jan'12-Mar'12	729	683 (93.6%)	46 (6.4%)
Apr'12-Sep'12	922	875 (94.9%)	47 (5.1%)
Oct'12-Mar'13	1086	992 (91.3%)	94 (8.7%)
Apr'13 -Jun'13	1123	1027 (91.4%)	96 (8.6%)
Jul'13 – Sep13	1138	1039 (91.3%)	99 (8.7%)
Oct'13 – Dec'13	1138	1047 (92.0%)	91(8.0%)
Jan'14-Mar'14	1259	1112 (88.3%)	147(11.7%)
Apr'14-Jun'14	1295	1136 (87.7%)	159(12.3%)
Jul'14-Sep'14	1368	1201(87.8%)	167(12.2%)
Oct'14-Dec'14	1400	1222 (87.3%)	178 (12.7%)

MTC Growth of ISTS Licensees in various POC Periods (Approved by CERC/NLDC)

Rs in Crores

POC Period	Approved MTC	Share of POWERGRID	Share of Other Licensees
Jan'15-Apr'15	1485	1285 (86.5%)	200 (13.5%)
May'15-June'15	1589	1381 (86.9%)	208 (13.1%)
July'15- Sept'15	1631	1402 (86.0%)	229 (14.0%)
Oct'15 – Dec'15	1639	1401 (85.5%)	238 (14.5%)
Jan'16-Mar'16	1872	1630 (87.1%)	242 (12.9%)
Apr'16-Jun'16	1901	1660 (87.3%)	241 (12.7%)
Jul'16-Sep'16	2112	1848 (87.5%)	264 (12.5%)
Oct'16-Dec'16	2169	1894 (87.3%)	275 (12.7%)
Jan'17-Mar'17	2272	1959 (86.2%)	313 (13.8%)
Apr'17-Jun'17	2388	2072 (86.7%)	316 (13.3%)
Jul'17- Sep'17	2450	2123 (86.6%)	327 (13.4%)
Oct'17- Dec'17	2485	2151 (86.6%)	334 (13.4%)
Jan'18- Mar'18	2613	2268 (86.8%)	345 (13.2%)

Other Challenges being faced by POWERGRID in Revenue Realization

➤ **Generation Mismatch**

- Realization of tariff from Generators till their COD as per Regulations
- Issues in Commencement of Long Term Open Access of Generators
- Difficulty in commissioning the dedicated transmission lines to the Generating Stations, thereby deferring the DOCO of lines

➤ **Mismatch in Downstream STU systems**

- CERC directions not to include the assets in POC till power flow happens in the system and realize the tariff from STUs.

➤ **Mismatch in TBCB Transmission Lines**

- Terms of DOCO declaration are different, leading to different treatment of allowing the tariff realization

Thank You

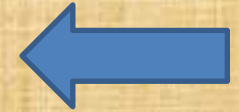
Monthly Tr. Charges of ISTS Licensees (As per Q1 PoC Period of FY 2018-19)

S.NO	LICENSEE	MTC (CR.RS)	%	S.NO	LICENSEE	MTC (CR.RS)	%
1	POWER GRID CORPORATION OF INDIA	2267.56	86.7867	25	HARYANA VIDYUT PRASARAN NIGAM LTD	0.67	0.0258
2	POWERLINKS TRANSMISSION LTD.	19.38	0.7419	26	TAMIL NADU TRANSMISSION CORP. LTD	1.01	0.0388
3	WESTERN REGION TRANSMISSION (M)	10.49	0.4015	27	ASSAM ELECTRICITY GRID	0.9	0.0344
4	U.P. POWER TRANSMISSION CORPORATION	2.27	0.0868	28	POWERGRID VIZAG	19.47	0.7453
5	RAJASTHAN RAJYA VIDYUT PRASARAN	3.12	0.1195	29	MEGHALAYA POWER TRANS. CO.	0.3	0.0115
6	POWER DEVELOPEMENT DEPARTMENT	0.84	0.0323	30	NRSS XXIX TRANSMISSION LTD	8.97	0.3432
7	GUJRAT ENERGY TRANSMISSION	0.48	0.0182	31	PURULIA & KHARAGPUR TRANSMISSION CO	4.26	0.1631
8	MAHARASHTRA STATE ELECTRICITY	8.14	0.3116	32	MADHYA PRADESH POWER TRANSMISSION C	5.68	0.2176
9	WESTERN REGION TRANSMISSION (G)	5.69	0.2177	33	CHHATTISGARH STATE POWER TRANSMISSI	0.86	0.0328
10	JAYPEE POWERGRID LTD.	15.13	0.5792	34	DELHI TRANSCO LTD.	1.24	0.0476
11	TORRENT POWER GRID LTD.	4.08	0.1562	35	KSEB	0.84	0.0321
12	JINDAL POWER LTD.	1.57	0.0599	36	KARNATAKA POWER TRANSMISSION CORPOR	2.68	0.1025
13	NORTH EAST TRANSMISSION COMPANY	30.7	1.1749	37	KUDGI TRANSMISSION LIMITED	16.36	0.6261
14	ESSAR POWER TRANSMISSION	5.4	0.2068	38	HIMACHAL PRADESH POWER TRANMISSION	0.22	0.0082
15	EAST NORTH INTERCONNECTION	11.71	0.4483	39	POWERGRID UNCHAHAR TRANSMISSION	1.31	0.0500
16	ADANI TRANSMISSION (INDIA) LTD.	66.58	2.5483	40	BHAKRA BEAS MANAGEMENT BOARD	0	0
17	PRABATI KOLDAM TRASMISSION	15.10	0.5778	41	PATRAN TRANSMISSION COMPANY LIMITED	2.69	0.0798
18	ARAVALI POWER COMPANY PVT. LTD.	1.10	0.0422	42	NRSS-XXXI (B) TRANSMISSION LIMITED	7.36	0.2816
19	BHOPAL DHULE TRANSMISSION CO. LTD.	20.9	0.7999	43	DARBHANGA MOTIHARI TRANSMISSION	11.91	0.4560
20	RAICHUR SHOLAPUR TRANSMISSION COMPA	2.93	0.1123	44	PTCUL (UTTRAKHAND)	2.56	0.0979
21	WEST BENGAL STATE ELECTRICITY	2.67	0.1023	45	TEESTA VALLEY POWER TRANS LTD.	2.58	0.0988
22	ODISHA POWER TRANS CORP LTD	0.97	0.0372	46	Maheshwaram Transmission Limited	4.63	.1774
23	JABALPUR TRANS CO LTD	17.37	0.6648	47	NRSSXXXVI Transmission Limited	.11	.0041
24	RAPP TRANSMISSION COMPANY LIMITED	2.59	0.0991		Total	2613	100

List of DICs

ER	NR	SR	SR	WR
BIHAR	HARYANA	SAIL SALEM	NSL SUGARS (MTOA)	APL MUNDRA
ODISHA	UTTRAKHAND	NETASL	THERMAL POWERTECH	GOA-WR
DVC	RAILWAYS	CESCO	DB POWER	HWB
POWERGRID PUSAULI	ADHPL	ANDHRA PRADESH	IL&FS TAMIL NADU	PTC(LANCO AMARKANTAK)
WEST BENGAL	AVVN	TELANGANA	DHARIWAL INFRA	GMR WARORA (EMCO)
JHARKHAND	NDMC	PTC-SR-MT	ADHUNIK POWER	MCCPL
SIKKIM	LANCO GREEN	PUDUCHERRY	BALCO	WR-RATNAGIRI-GUJ
MAITHANRB	HIMACHAL SORANG	ADANI ENTERPRISES	SHREE CEMENT	CR- RATNAGIRI-MAHA
NTPC FARAKKA	POWERGRID HVDC DADRI	GESCOM	WR	WCR - RATNAGIRI- MP
TATA STEEL	ANPARA-C	GOA	CHATTISGARH	JHABUA POWER
BPDB	JVVN	TNEB	GUJARAT	JITPL
IND BARATH	BYPL	HESCOM	JINDAL	HVDC CHAMPA
SER-RATNAGIRI-JHARKHAND	UP	KSEB	TORRENT POWER	NTPC KORBA
NR	JAMMU AND KASHMIR	MAHANADI POWER	MP	NER
PUNJAB	CHANDIGARH	JINDAL-SR-MT-CS	D*D	ARUNACHAL PRADESH
PTC-BUDHIL	JDVVN	BESCOM	HVDC BHADRAWATI	MEGHALAYA
HVDC RIHAND	TPDDL	MESCOM	MAHARASHTRA	TRIPURA
HIMACHAL PRADESH	MB POWER	PG HVDC SR	ACBIL	MANIPUR
JPVL	AARTI STEELS LIMITED	NVVNL(JP)	DNH	MIZORAM
BRPL	AARTI INTERNATIONAL LIMITED	COASTAL ENERGEN	HVDC VINDHYACHAL	ASSAM
HVDC BALLIA	GMR KAMALANGA	JSW POWER TRADING	BARC	NAGALAND
HVDC BHIWADI	R.K.M POWERGEN PVT. LTD	UDUPI POWER	SPECTRUM	HVDC BNC and Others

Graded Rebate Table



0-15 days		16-30 days		31-45 days		46-60 days	
Days	Rebate (%)	Days	Rebate (%)	Days	Rebate (%)	Days	Rebate (%)
T+0	2.00	T+16	1.56	T+31	0.50	T+46	0.25
T+1	2.00	T+17	1.52	T+32	0.50	T+47	0.25
T+2	2.00	T+18	1.48	T+33	0.50	T+48	0.25
T+3	2.00	T+19	1.44	T+34	0.50	T+49	0.25
T+4	2.00	T+20	1.40	T+35	0.50	T+50	0.25
T+5 (*)	2.00	T+21	1.36	T+36	0.35	T+51	0.20
T+6	1.96	T+22	1.32	T+37	0.35	T+52	0.20
T+7	1.92	T+23	1.28	T+38	0.35	T+53	0.20
T+8	1.88	T+24	1.24	T+39	0.35	T+54	0.20
T+9	1.84	T+25	1.20	T+40	0.35	T+55	0.20
T+10	1.80	T+26	1.16	T+41	0.30	T+56	0.00
T+11	1.76	T+27	1.12	T+42	0.30	T+57	0.00
T+12	1.72	T+28	1.08	T+43	0.30	T+58	0.00
T+13	1.68	T+29	1.04	T+44	0.30	T+59	0.00
T+14	1.64	T+30	1.00	T+45	0.30	T+60	0.00
T+15	1.60						

Summary of Recovery of Transmission Tariff of ISTS Licensees



Billing by CTU	Details	Disbursed to Licensees	Ratio of Disbursement to Licensees
-	STOA Charges recd from NLDC/RLDCs	No. Adjusted in Bill #1	Nil
Bill #1	Main Bill based on RTA	Yes	Ratio of MTC of Licensees
Bill #2	Addl. MTOA	No. Adjusted in Bill #1	Nil
Bill#3	Adjustment Bill	Yes	Ratio of Bill#3 amount
Bill #4	Bill based on RTDA	No. Adjusted in Bill #1	Nil
Bill #5	Misc.billing incl. Surcharge billing	Yes	Ratio of MTC of Licensees