



The Director
Bureau of Energy Efficiency
Ministry of Power, Government of India
4th Floor, Sewa Bhawan
RK Puram, New Delhi- 110066
Tel:- +91(11)26179699

Kind Attn: - Shree Milind Deore Jee

PBD/PSK/16 /2022
Date: 08 /01/2022

Sub: Submission of Periodic energy accounting report for Tata Steel Utilities and Infrastructure Services Limited Licensee area in Saraikela for the period Q-2 FY22 (i.e. July-2021 to September-2021).

Ref: - Bureau of Energy Efficiency (Manner and Intervals for Conduct of Energy Audit in electricity distribution companies) Regulations, 2021.

Dear Sir,


In view of the above-mentioned regulation, we would like to submit the Periodic energy accounting report for Tata Steel Utilities and Infrastructure Services Limited (Tata Steel UISL) Licensee area in Saraikela for the period Q-2 FY22 (i.e. July-2021 to September-2021).

Please note, presently we monitor only overall collection efficiency. Category wise Collection efficiency is not available therefore, total collection efficiency is projected in all the categories. Further presently we do not have IT system in placed to monitor feeder wise losses hence, same also not reported.

Our designated Energy Manager is currently under treatment for covid-19 infections therefore, this report is being signed by other officer on his behalf.

Kindly acknowledge the compliance of the directive

Thanking You.


Nodal Officer
(Suman Mandal)
Sr DM (C&R), Power Services Division

TATA STEEL UTILITIES AND INFRASTRUCTURE SERVICES LIMITED
(Formerly Jamshedpur Utilities & Services Company Limited)

Registered Office : Sakchi Boulevard Road Northern Town Bistupur Jamshedpur 831 001 India
Tel 91 657 6652101 Fax 91 657 2424219
Corporate Identity Number U45200JH2003PLC010315
Website www.tatasteeluisl.com

General Information

1	Name of the DISCOM	TATA STEEL UTILITIES AND INFRASTRUCTURE SERVICES		
2	i) Year of Establishment	2004		
	ii) Government/Public/Private	Private		
3	DISCOM's Contact details & Address			
i	City/Town/Village	Northern Town, Bistupur, Jamshedpur		
ii	District	East Singhbhum		
iii	State	Jharkhand	Pin	831001
iv	Telephone		Fax	
4	Registered Office			
i	Company's Chief Executive Name	MR. TARUN DAGA		
ii	Designation	MANAGING DIRECTOR		
iii	Address	SAKCHI BOULEVARD ROAD, BISTUPUR		
iv	City/Town/Village	JAMSHEDPUR	P.O.	BISTUPUR
v	District	EAST SINGHBHUM		
vi	State	JHARKHAND	Pin	831001
vii	Telephone		Fax	
5	Nodal Officer Details*			
i	Nodal Officer Name (Designated at DISCOM's)	MR SUMAN MANDAL		
ii	Designation	SENIOR DIVISIONAL MANAGER		
iii	Address	SAKCHI BOULEVARD ROAD, BISTUPUR		
iv	City/Town/Village	JAMSHEDPUR	P.O.	BISTUPUR
v	District	EAST SINGHBHUM		
vi	State	JHARKHAND	Pin	831001
vii	Telephone	0657-6652333	Fax	
6	Energy Manager Details*			
i	Name	MR DIPTANSHU DAS		
ii	Designation	ASST. MANAGER	Whether EA or EM	EM
iii	EA/EM Registration No.	NA		
iv	Telephone		Fax	
v	Mobile	9264438489	E-mail ID	diptanshu.das@tatasteel.com
7	Period of Information			
	Year of (FY) information including Date and Month (Start & End)	1st July, 2021 - 30th September, 2021		

Performance Summary of Electricity Distribution Companies

1	Period of Information Year of (FY) information including Date and Month (Start & End)	1st July, 2021 - 30th September, 2021
2	Technical Details	
(a)	Energy Input Details	
(i)	Input Energy Purchase (From Generation Source)	208.10 Million kwh
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	208.10 Million kwh
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	204.68 Million kwh
(b)	Transmission and Distribution (T&D) loss Details	3.42 1.64 100% (99.56%) 2%
(c)	Collection Efficiency	2%
	Aggregate Technical & Commercial Loss	

I/We undertake that the information supplied in this Document and Pro-forma is accurate to the best of my knowledge and if any of the information supplied is found to be incorrect and such information result into loss to the Central Government or State Government or any of the authority under them or any other person affected, I/we undertake to indemnify such loss.

Authorised Signatory and Seal

[Signature]

F. Pushkar Das

Signature:-

Name of Energy Manager*: *Mr. Dipankar Das*

Registration Number:

Name of Authorised Signatory *SUMAN MANDAL*

Name of the DISCOM: *TATA STEEL UISL*

Full Address:- *NORTHERN TOWN, BISTUPUR, JAMSHEDPUR*

**Divisional Manager, (C&R)
Power Services Division
TATA STEEL UISL**

Seal

Form-Details of Input Infrastructure

1	Parameters	Total	Covered during in audit	Verified by Auditor in Sample Check	Remarks (Source of data)
i	Number of circles	1	1		1
ii	Number of divisions	1	1		1
iii	Number of sub-divisions	NA	NA		
iv	Number of feeders	498	498		50 GIS Level Data
v	Number of DTs	248	248		25 GIS Level Data
vi	Number of consumers	6601	6601		661 Verified from SAP
2	Parameters	66kV and above	33kV	11/22kV	LT
a. i.	Number of conventional metered consumers				5983
ii	Number of consumers with 'smart' meters				
iii	Number of consumers with 'smart prepaid' meters				
iv	Number of consumers with 'AMR' meters	49	49	290	279
v	Number of consumers with 'non-smart prepaid' meters				
vi	Number of unmetered consumers				
vii	Number of total consumers		49	290	6262
b.i.	Number of conventionally metered Distribution Transformers				
ii	Number of DTs with communicable meters	4	4	242	2
iii	Number of unmetered DTs				
iv	Number of total Transformers	4	4	242	2
c.i.	Number of metered feeders				
ii	Number of feeders with communicable meters	31	31	44	423
iii	Number of unmetered feeders				
iv	Number of total feeders	31	31	44	423
d.	Line length (ct km)		823		
e.	Length of Aerial Bunched Cables		25		
f.	Length of Underground Cables		798		

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3	Voltage level	Particulars	MU	Reference	Remarks (Source of data)
i	66kV and above	Long-Term Conventional	177	Includes input energy for franchisees	
		Medium Conventional			
		Short Term Conventional			
		Banking			
		Long-Term Renewable energy			
		Medium and Short-Term RE			
		Captive, open access input			
		Sale of surplus power			
		Quantum of inter-state transmission loss			
		Power procured from inter-state sources	177		
ii	33kV	Power at state transmission boundary	177	As confirmed by SLDC, RLDC etc Based on data from Form 5	
		Long-Term Conventional	31		
		Medium Conventional			
		Short Term Conventional			
		Banking			
		Long-Term Renewable energy			
		Medium and Short-Term RE			
		Captive, open access input			
		Sale of surplus power			
		Quantum of intra-state transmission loss	0		
iii		Power procured from intra-state sources	31		
		Input in DISCOM wires network	208		
iv	33 kV	Renewable Energy Procurement			
		Small capacity conventional/ biomass/ hydro plants Procurement			
v	11 kV	Captive, open access input			
		Renewable Energy Procurement			
vi	LT	Small capacity conventional/ biomass/ hydro plants Procurement			
		Sales Migration Input			
vii		Renewable Energy Procurement			
		Sales Migration Input			
viii		Energy Embedded within DISCOM wires network	0		
		Total Energy Available/ Input	208		

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4	Voltage level	Energy Sales Particulars	MU	Reference
i	LT Level	DISCOM' consumers	13	Include sales to consumers in franchisee areas, unmetered consumers
		Demand from open access, captive		Non DISCOM's sales
		Embedded generation used at LT level		Demand from embedded generation at LT level
		Sale at LT level	13	Balancing loss ~ 7%
ii	11 kV Level	Quantum of LT level losses	1	
		Energy input at LT level	14	
		DISCOM' consumers	57	Include sales to consumers in franchisee areas, unmetered consumers
		Demand from open access, captive		Non DISCOM's sales
iii	33 kV Level	Embedded generation at 11 kV level used		Demand from embedded generation at 11kV level
		Sales at 11 kV level	57	
		Quantum of Losses at 11 kV	1	Theoretical loss ~ 1.5%
		Energy input at 11 kV level	58	
iv	> 33 kV	DISCOM' consumers	135	Include sales to consumers in franchisee areas, unmetered consumers
		Demand from open access, captive		Non DISCOM's sales
		Embedded generation at 33 kV or below level		This is DISCOM and OA demand met via energy generated at same voltage level
		Sales at 33 kV level	135	Theoretical loss ~ 1.5%
		Quantum of Losses at 33 kV	2	
		Energy input at 33kV Level	137	
		DISCOM' consumers		Include sales to consumers in franchisee areas, unmetered consumers
		Demand from open access, captive		Non DISCOM's sales
		Cross border sale of energy		
		Sale to other DISCOMs		
		Banking		
		Energy input at > 33kV Level	0	
		Sales at 66kV and above (EHV)	208	
		Total Energy Requirement	205	
		Total Energy Sales		

Energy Accounting Summary

5	DISCOM	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %
i	DISCOM	LT	13	1	7%
		11 kV	57	1	1.50%
		33 kV	135	2	1.50%
		> 33 kV			
6	Open Access, Captive	Input (in MU)	Sale (in MU)	Loss (in MU)	

Loss Estimation for DISCOM

T&D loss	4
D loss	4
T&D loss (%)	0.018255893
D loss (%)	0.018255893

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Details of Division Wise Losses (See note below)**

Division Wise Losses

Period From: 1st July 2021 To 30th Sep 2021

S.No	Name of circle	Circle code	Name of Division	Consumer profile				Energy parameters				Losses		Commercial Parameter			AT & C loss (%)					
				No of connection metered (Nos)	No of connection Un-metered (Nos)	Total Number of connections (Nos)	% of number of connections	Connected Load metered (MW)	Connected Load Un-metered (MW)	Total Connected Load (MW)	% of connected load	Input energy (MU)	Metered energy	Unmetered/assessment energy	Total energy	% of energy consumption		T&O loss (MU)	T&O loss (%)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore	Collection Efficiency
1				Residential	4999	0	4999	76%	36.172	0	36.172	15%	10.17	0	10.17	5%	0	0	3.3931692	3.3783499	99.56%	
				Agricultural	0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				Commercial/Industrial-LT	1296	0	1296	20%	20.5722	0	20.5722	8%	6.52	0	6.52	3%	3.4166	2%	3.79019556	3.77368378	99.56%	
				Commercial/Industrial-HT	303	0	303	5%	185.628	0	185.628	77%	187.99	0	187.99	92%	0	0%	104.341945	103.887385	99.56%	
	Sub-total			6601	0	6601	100%	242.3922	0	242.3922	100%	208.1	204.6834	100%	3.4166	2%	111.525258	111.039404	99.56%			
2				Residential	0	0	0	0%	0	0	0	0%	0	0	0%	0	0	0	0	0	0.00%	
				Agricultural	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
				Commercial/Industrial-LT	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
				Commercial/Industrial-HT	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
	Sub-total			0	0	0	100%	0	0	0	100%	0	0	100%	0	0%	0	0	0.00%			
3				Residential	0	0	0	0%	0	0	0	0%	0	0	0%	0	0	0	0	0	0.00%	
				Agricultural	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
				Commercial/Industrial-LT	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
				Commercial/Industrial-HT	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
	Sub-total			0	0	0	100%	0	0	0	100%	0	0	100%	0	0%	0	0	0.00%			
4				Residential	0	0	0	0%	0	0	0	0%	0	0	0%	0	0	0	0	0	0.00%	
				Agricultural	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
				Commercial/Industrial-LT	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
				Commercial/Industrial-HT	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
	Sub-total			0	0	0	100%	0	0	0	100%	0	0	100%	0	0%	0	0	0.00%			
5				Residential	0	0	0	0%	0	0	0	0%	0	0	0%	0	0	0	0	0	0.00%	
				Agricultural	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
				Commercial/Industrial-LT	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
				Commercial/Industrial-HT	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
	Sub-total			0	0	0	100%	0	0	0	100%	0	0	100%	0	0%	0	0	0.00%			
6				Residential	0	0	0	0%	0	0	0	0%	0	0	0%	0	0	0	0	0	0.00%	
				Agricultural	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
				Commercial/Industrial-LT	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
				Commercial/Industrial-HT	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
	Sub-total			0	0	0	100%	0	0	0	100%	0	0	100%	0	0%	0	0	0.00%			
7				Residential	0	0	0	0%	0	0	0	0%	0	0	0%	0	0	0	0	0	0.00%	
				Agricultural	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
				Commercial/Industrial-LT	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
				Commercial/Industrial-HT	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
	Sub-total			0	0	0	100%	0	0	0	100%	0	0	100%	0	0%	0	0	0.00%			
8				Residential	0	0	0	0%	0	0	0	0%	0	0	0%	0	0	0	0	0	0.00%	
				Agricultural	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
				Commercial/Industrial-LT	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
				Commercial/Industrial-HT	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
	Sub-total			0	0	0	100%	0	0	0	100%	0	0	100%	0	0%	0	0	0.00%			
9				Residential	0	0	0	0%	0	0	0	0%	0	0	0%	0	0	0	0	0	0.00%	
				Agricultural	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
				Commercial/Industrial-LT	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
				Commercial/Industrial-HT	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
	Sub-total			0	0	0	100%	0	0	0	100%	0	0	100%	0	0%	0	0	0.00%			
10				Residential	0	0	0	0%	0	0	0	0%	0	0	0%	0	0	0	0	0	0.00%	
				Agricultural	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
				Commercial/Industrial-LT	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
				Commercial/Industrial-HT	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0	0.00%
	Sub-total			0	0	0	100%	0	0	0	100%	0	0	100%	0	0%	0	0	0.00%			

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Sl. No.	Category	4999	0	4999	76%	36.172	0	36.172	0	10.17	0	10.17	5%	3.4166	2%	3.39311692	3.37833499	99.56%
76	Total	0	0	0	0%	0	0	0	0	0	0	0	0%	0	0	0	0	0.00%
	Residential	0	0	0	0%	0	0	0	0	0	0	0	0%	0	0	0	0	0.00%
	Agricultural	1296	0	1296	20%	20.5722	0	20.5722	0	6.52	0	6.52	3%	3.4166	2%	3.79019556	3.77368378	99.56%
	Commercial/Industrial-LT	303	0	303	5%	185.628	0	185.628	0	187.99	0	187.99	92%	3.4166	2%	104.341945	103.887385	99.56%
	Commercial/Industrial-HT	3	0	3	0%	0.02	0	0.02	0	0.0034	0	0.0034	0%	3.4166	2%	0	0	0.00%
	Others	6601	0	6601	100%	242.3922	0	242.3922	0	204.6834	0	204.6834	100%	3.4166	2%	111.525258	111.039404	99.56%
77	At company level	0	0	0	0%	0	0	0	0	0	0	0	0%	0	0	0	0	0.00%

** Note - It shall be mandatory to record the energy supplied separately for each category of consumers which is being provided a separate rate of subsidy in the tariff, by the state government, so that the subsidy due for the electricity distribution company is quarterly calculated by multiplying the energy supplied to each of such category of consumers by the applicable rate of subsidy notified by the state government.

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I/We undertake that the information supplied in this Document and Pro-forma is accurate to the best of my knowledge and if any of the information supplied is found to be incorrect and such information result into loss to the Central Government or State Government or any of the Ministry under them or any other person affected, I/we undertake to indemnify such loss.

Signature:-

Name of Energy Manager:

Registration Number:

Suman Mandal
Mr. D. Hanu Das

SUMAN MANDAL
TATA STEEL UISL
NORTHERN TOWN, BISTUPUR, JAMSHEDPUR

Name of Authorised Signatory:

Name of the DISCOM:

Full Address:

Seal

Divisional Manager, (C&R)
Power Services Division
TATA STEEL UISL

Form-Input energy (Details of Input energy & Infrastructure)

Parameters		Period from July 21 to September 21, 2021	Remarks (Source of data)
A.1	Input Energy (kWh) (MI)	204,10058	MI Level Data
A.2	Transmission loss (%)	0	
A.3	Energy sold outside the substation (MI)	0	
A.4	Energy sold outside the substation (MI)	0	
A.5	Open access rate (MI)	0	
A.6	Net input energy (received at DCCOM) per phase per at distribution point (MI)	0	
A.7	100% working parameter at 11 kV (select any of the item MI)	0	
A.8	100% working parameter at 33 kV (select any of the item MI)	0	
A.9	% of metering available at 0%	0	
A.10	% of metering available at 0%	0	
A.11	% of metering available at consumer end	0	
A.12	No. of feeders at 11KV voltage level	0	
A.13	No. of feeders at 33KV voltage level	0	
A.14	No. of 11/33 feeders	0	
A.15	Line length (km) at 69KV voltage level	0	
A.16	Line length (km) at 11KV voltage level	0	
A.17	Line length (km) at 33KV voltage level	0	
A.18	Line length (km) at 11KV voltage level	0	
A.19	Length of Aerial Bunched Cables	0	
A.20	Length of Underground Cables	0	
A.21	Length of Underground Cables	0	
A.22	Length of Underground Cables	0	
A.23	Length of Underground Cables	0	

B. Meter reading of input energy at location points																		
S.No	Zone	Circle	Voltage Level (KV)	Division (KV)	Sub-Station (KV)	Feeder ID	Feeder Name	Feeder Addressing Scheme (Meters/Phase/Phase)	Status of Meter (Functional/Non-Functional)	Moving Date (Date of last meter reading/communication)	Feeder Type (Aggr/Non-aggr/Other)	Status of Communication			Total Number of hours in the period	Meter Size	Period from July 21 to September 21, 2021	Remarks (Source of data)
												% data received through AMI/AMR	Number of hours when meter was available for communication in period	Number of hours when meter was not available for communication in period				
B.1			132				DVC 132V, Chord/Bus 1 and Bus 2	Measured	Functional	30.08.2021	Industrial	% data received through AMI/AMR	0	2108	10000000	99.18	From MIS Level Data	
B.2			132				TPL 132V, Chord/Bus 1 and Bus 2	Measured	Functional	30.08.2021	Industrial	% data received through AMI/AMR	0	1908	10000000	77.88	From MIS Level Data	
B.3			33				DVC 33	Measured	Functional	30.08.2021	Industrial	% data received through AMI/AMR	0	2008	10000000	100.71	From MIS Level Data	
B.4			6.6				TPL 6.6V	Measured	Functional	30.08.2021	Industrial	% data received through AMI/AMR	0	2008	10000000	0.33	From MIS Level Data	
B.5																		
B.6																		
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