



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

PBD/SK/ 23/2022
Date: 25/02/2022

Knd Attn:- Shree Milind Deore Jee

Sub: Submission of Periodic energy accounting report for Tata Steel Utilities and Infrastructure Services Limited, Licensee area in Saraikela for the period Q-3 FY22 (i.e. October-2021 to December-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, Licensee area in Saraikela for the period Q-3 FY22 (i.e. October-2021 to December-2021).

Feeder wise losses are not available in our IT system, we are in process to develop the same.

Kindly acknowledge the compliance of the directive

Thanking You.

(Suman Mandal)
Senior Divisional Manager

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 October, 2021 - 31st December, 2021		

Performance Summary of Electricity Distribution Companies		1st October, 2021 - 31st December, 2021
1	Period of Information Year of (FY) information including Date and Month (Start & End)	
2	Technical Details	
(a)	Energy Input Details	
(i)	Input Energy Purchase (From Generation Source)	Million kwh 214.63
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh 214.63
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh 212.58
(b)	Transmission and Distribution (T&D) loss Details	Million kwh 2.05 % 0.96
(c)	Collection Efficiency	% 99%
	Aggregate Technical & Commercial Loss	% 2%

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)

(Suman Mandel)

Name of Authorised Signatory

Name of the DISCOM: *Tata Steel Utilities and Infrastructure Services Ltd, Jamshedpur.*

Full Address:- *Northern Town, Biskapur, Jamshedpur.*

Signature:-

(Signature)

Name of Energy Manager*: *DIPTANSHU AAS*

Registration Number:

**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			
iv	Number of feeders	498	498		50 GIS Level Data
v	Number of DTs	248	248		25 GIS Level Data
vi	Number of consumers	6868	6868		687 Verified from SAP
2	Parameters	66kV and above	33kV	11/22kV	LT
a. i.	Number of conventional metered consumers				6240
ii	Number of consumers with 'smart' meters				
iii	Number of consumers with 'smart prepaid' meters				
iv	Number of consumers with 'AMIR' meters		50	292	286
v	Number of consumers with 'non-smart prepaid' meters				
vi	Number of unmetered consumers				
vii	Number of total consumers		50	292	6526
b.i.	Number of conventionally metered Distribution Transformers				
ii	Number of DTs with communicable meters		4	242	2
iii	Number of unmetered DTs				
iv	Number of total Transformers		4	242	2
c.i.	Number of metered feeders				
ii	Number of feeders with communicable meters		31	44	423
iii	Number of unmetered feeders				
iv	Number of total feeders		31	44	423
d.	Line length (ct km)				823
e.	Length of Aerial Bunched Cables				25
f.	Length of Underground Cables				798
3	Voltage level				
i	Long-Term Conventional		187		Includes input energy for franchisees
	Medium Conventional				
	Short Term Conventional				
	Banking				
	Long-Term Renewable energy				Includes power from bilateral/ PX/ DEEP
	Medium and Short-Term RE				Any power wheeled for any purchase other than sale to DISCOM. Does not include input for franchisee.
	Captive, open access input				
	Sale of surplus power				
	Quantum of inter-state transmission loss				As confirmed by SLDC, RLDC etc
	Power procured from inter-state sources			187	Based on data from Form 5
Power at state transmission boundary			187		
Long-Term Conventional					
Medium Conventional					
Short Term Conventional					
27					

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ii	33kV	Banking Long-Term Renewable energy Medium and Short-Term RE Captive, open access input Sale of surplus power Quantum of intra-state transmission loss Power procured from intra-state sources	0 27 214		
iii	33 kV	Input in DISCOM wires network Renewable Energy Procurement Small capacity conventional/ biomass/ hydro plants Procurement Captive, open access input			
v	11 kV	Renewable Energy Procurement Small capacity conventional/ biomass/ hydro plants Procurement			
vi	LT	Sales Migration Input Renewable Energy Procurement Sales Migration Input			
vii		Energy Embedded within DISCOM wires network	0		
viii	4	Total Energy Available/ Input Energy Sales Particulars	214 MU		
i	LT Level	DISCOM' consumers Demand from open access, captive Embedded generation used at LT level	11		Reference Include sales to consumers in franchisee areas, unmetered consumers Non DISCOM's sales Demand from embedded generation at LT level
ii	11 kV Level	Sale at LT level Quantum of LT level losses Energy Input at LT level DISCOM' consumers Demand from open access, captive Embedded generation at 11 kV level used	11 1 12 58		Measured loss ~ 6.4% fr Include sales to consumers in franchisee areas, unmetered consumers Non DISCOM's sales Demand from embedded generation at 11kV level
iii	33 kV Level	Sales at 11 kV level Quantum of Losses at 11 kV Energy Input at 11 kV level DISCOM' consumers Demand from open access, captive Embedded generation at 33 kV or below level	58 1 59 143		Measured loss ~ 1.25% Include sales to consumers in franchisee areas, unmetered consumers Non DISCOM's sales This is DISCOM and OA demand met via energy generated at same voltage level
iv	> 33 kV	Sales at 33 kV level Quantum of Losses at 33 kV Energy input at 33kV Level DISCOM' consumers Demand from open access, captive Cross border sale of energy Sale to other DISCOMs Banking Energy input at > 33kV Level Sales at 66kV and above (EHV)	143 1 144 0		Measured loss ~ 0.43% Include sales to consumers in franchisee areas, unmetered consumers Non DISCOM's sales

Amend

		Total Energy Requirement		215			
		Total Energy Sales		213			
Energy Accounting Summary							
5	DISCOM	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %		
i	LT	12	11	1	6%		
ii	11 Kv	59	58	1	1.25%		
iii	33 kv	144	143	1	0.43%		
iv	> 33 kv						
6	Open Access, Captive	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %		
i	LT						
ii	11 Kv						
iii	33 kv						
iv	> 33 kv						

Loss Estimation for DISCOM	
T&D loss	2
D loss	2
T&D loss (%)	0.009563697
D loss (%)	0.009563697

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

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 (MU)	% of energy consumption		T&D loss (MU)	T&D loss (%)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore
1			Residential	5211	0	5211	76%	37.211	0	37.211	15%	6.95	0	6.95	3%	0	0	2.43818427	2.22224837	91.14%	
				0	0	0	0%	0	0	0	0%	0	0	0	0%	0	0	0	0	0.00%	
				1342	0	1342	20%	21.21549	0	21.21549	9%	214.63	6.42	0	6.42	3%	2.053772	1%	3.80778478	3.47703857	91.31%
				306	0	306	4%	188.488	0	188.488	76%	199.2	199.2	0	199.2	94%	0	0	108.527966	108.442995	99.55%
				9	0	9	0%	0.079	0	0.079	0%	0.01	0.01	0	0.01	0%	2.053772	1%	115.123955	114.141682	99.10%
	Sub-total			6868	0	6868	100%	246.99449	0	246.99449	100%	212.58	100%	2.053772	1%	115.123955	114.141682	99.10%			
2			Residential	0	0	0	0%	0	0	0	0%	0	0	0%	0	0	0	0	0	0.00%	
				0	0	0	0%	0	0	0	0%	0	0	0	0%	0	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0
	Sub-total			0	0	0	0%	0	0	0	0%	0	0%	0	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%	
				0	0	0	0%	0	0	0	0%	0	0	0	0%	0	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0
	Sub-total			0	0	0	0%	0	0	0	0%	0	0%	0	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%	
				0	0	0	0%	0	0	0	0%	0	0	0	0%	0	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0
	Sub-total			0	0	0	0%	0	0	0	0%	0	0%	0	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%	
				0	0	0	0%	0	0	0	0%	0	0	0	0%	0	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0
	Sub-total			0	0	0	0%	0	0	0	0%	0	0%	0	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%	
				0	0	0	0%	0	0	0	0%	0	0	0	0%	0	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0
	Sub-total			0	0	0	0%	0	0	0	0%	0	0%	0	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%	
				0	0	0	0%	0	0	0	0%	0	0	0	0%	0	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0
	Sub-total			0	0	0	0%	0	0	0	0%	0	0%	0	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%	
				0	0	0	0%	0	0	0	0%	0	0	0	0%	0	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0
	Sub-total			0	0	0	0%	0	0	0	0%	0	0%	0	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%	
				0	0	0	0%	0	0	0	0%	0	0	0	0%	0	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0
	Sub-total			0	0	0	0%	0	0	0	0%	0	0%	0	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%	
				0	0	0	0%	0	0	0	0%	0	0	0	0%	0	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0
	Sub-total			0	0	0	0%	0	0	0	0%	0	0%	0	0	0	0	0	0.00%		
11			Residential	0	0	0	0%	0	0	0	0%	0	0	0%	0	0	0	0	0	0.00%	
				0	0	0	0%	0	0	0	0%	0	0	0	0%	0	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
				0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0	0	0
	Sub-total			0	0	0	0%	0	0	0	0%	0	0%	0	0	0	0	0	0.00%		

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Form-Input energy/Details of Input energy & Infrastructure

A. Summary of energy Input & Infrastructure

S.No	Parameters	Period From July 21 To September 21	Remarks (Source of data)
A.1	Input Energy purchased (MU)	214.63772	MIS Level Data
A.2	Energy sold to other utilities (MU)	0	
A.3	Transmission loss (MU)	0	
A.4	Energy sold outside the periphery (MU)	0	
A.5	Open access sale (MU)	0	
A.6	ETI sale	214.63	MIS Level Data
A.7	Net input energy (received at DISCOM periphery or at distribution point) (MU)	214.63	
A.8	is 100% metering available at 69/33 kV (select yes or no from list)	Yes	
A.9	is 100% metering available at 11 kV (select yes or no from list)	100%	
A.10	% of metering available at DT	100%	
A.11	% of metering available at consumer end	100%	
A.12	No. of feeders at 69kV voltage level	0	
A.13	No. of feeders at 33kV voltage level	0	
A.14	No. of feeders at 11kV voltage level	0	
A.15	No. of LT feeders	0	
A.16	Line length (GK. km) at 69kV voltage level	31	GIS Level Data
A.17	Line length (GK. km) at 33kV voltage level	44	GIS Level Data
A.18	Line length (GK. km) at 11kV voltage level	423	GIS Level Data
A.19	Line length (km) at LT level	0	GIS Level Data
A.20	Length of Aerial Bunched Cables	338	GIS Level Data
A.21	Length of Underground Cables	275	GIS Level Data
A.22	HT/LT ratio	75	GIS Level Data

S.No	Zone	Circle	Voltage Level (kV)	Division (kVA)	Sub-Division (kVA)	Feeder ID	Feeder Name	Feeder Metering Status (Metered/ammetered/AMI/AMI)	Status of Meter (Functional/Non-functional)	Date of last actual meter reading/ communication	Feeder Type (Agri/ Industrial/MSL etc)	% data received through AMI/AMI/feeder AMI/AMI	Number of hours meters were not communicate in period	Total Number of hours in the period	Meter S.No	Period from		Remarks (Source of data)
																Import (MU)	Export (MU)	
B.1	Sarakola Kharsawa	Sarakola Kharsawa	132			DVC 132kV Chaudhri line 1 and line 2	Metered	Functional	31.12.2021	Industrial	Metered	0	2208	M1-SM00941	101.32	0	From MIS Level Data	
B.2	Sarakola Kharsawa	Sarakola Kharsawa	132			TPCL Jopdera 10S User 4	Metered	Functional	31.12.2021	Industrial	Metered	0	2208	MS00015	85.78	0	From MIS Level Data	
B.3	Sarakola Kharsawa	Sarakola Kharsawa	33			DVC 33	Metered	Functional	31.12.2021	Industrial	Metered	0	2208	M1-DVC00018	27.27	0	From MIS Level Data	
B.4	Sarakola Kharsawa	Sarakola Kharsawa	6.6			TX 6.6 kv	Metered	Functional	31.12.2021	Industrial	Metered	0	2208	MS18103	0.26	0	From MIS Level Data	
B.5																		
B.6																		
B.7																		
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B.10																		
B.11																		
B.12																		
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