



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/JSR/ 2002022
Date: 21/02/2022

Knd Attn:- Shree Milind Deore Jee

Sub: Submission of Periodic energy accounting report for Tata Steel Limited Licensee area in Jamshedpur for the period Q-3 FY22 (i.e. October-21 to December-21).

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 Limited Licensee area in Jamshedpur for the period Q-3 FY22 (i.e. October -2021 to December-2021).

Please note, presently we do not have IT system in placed to feeder wise losses loss monitoring hence, same not reported in this report.

Kindly acknowledge the compliance of the directive

For and on behalf of Tata Steel Limited

Thanking You.

(Saroj Kumar)
Head LDC & Power Management,
Electrical T & D

TATA STEEL LIMITED

Jamshedpur 831 001 India

Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001

Tel 91 22 6665 8282 Fax 91 22 66657724

Corporate Identity Number L27100MH 1907PLC000260 Website www.tatasteel.com

General Information

1	Name of the DISCOM	Tata Steel Limited		
2	i) Year of Establishment	26-08-1907 (As per PAN Card)		
	ii) Government/Public/Private	Private		
3	DISCOM's Contact details & Address			
i	City/Town/Village	Northern Town, Bistupur Jamshedpur Jharkhand 831001		
ii	District	East Singhbhum		
iii	State	Jharkhand	Pin	831001
iv	Telephone		Fax	
4	Registered Office			
i	Company's Chief Executive Name	Mr. T V Narendran		
ii	Designation	Managing Director		
iii	Address	Bombay House 24 Homi Mody Street Fort		
iv	City/Town/Village	Mumbai	P.O.	
v	District	Mumbai		
vi	State	Maharashtra	Pin	400001
vii	Telephone	91 22 66658282	Fax	91 22 6665828
5	Nodal Officer Details*			
i	Nodal Officer Name (Designated at DISCOM's)	Mr. Saroj Kumar		
ii	Designation	Head LDC & Power Management, Electrical T & D		
iii	Address	Tata Steel Limited, Bistupur Jamshedpur		
iv	City/Town/Village	Jamshedpur	P.O.	Bistupur
v	District	East Singhbhum		
vi	State	Jharkhand	Pin	831001
vii	Telephone	0657-6645530	Fax	
6	Energy Manager Details*			
i	Name	Mr. Pradeep Kumar		
ii	Designation	Manager LDC, Electrical T&D	Whether EA or EM	EA
iii	EA/EM Registration No.	NA		
iv	Telephone	0657-6644915	Fax	
v	Mobile	9204058293	E-mail ID	prakumar@tatasteel.com
7	Period of Information			
	Year of (FY) information including Date and Month (Start & End)	1st October 2021 to 31st December 2021		

Performance Summary of Electricity Distribution Companies		1st October 2021 to 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 686.37 ✓
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh 686.37 ✓
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh 672.70 ✓
(b)	Transmission and Distribution (T&D) loss Details	Million kwh 13.68 ✓ % 1.99
(c)	Collection Efficiency	% 105%
	Aggregate Technical & Commercial Loss	% -3%

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



Name of Authorised Signatory - Saroj Kumar
Name of the DISCOM: - Tata Steel Limited
Full Address:- Bistapur, Jamshedpur



Seal



Signature:-
Name of Energy Manager*: Pooja Kumar
Registration Number:

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	1	
ii	Number of divisions	1	1	1	1	
iii	Number of sub-divisions	NA	NA			
iv	Number of feeders	4019	4019		402 GIS	
v	Number of DTs	354	354		35 GIS	
vi	Number of consumers	47227	47227		4722 Sample verified frm SAP	
2	Parameters	66kV and above	33kV	11/22kV 16.6kV	LT	
a. i.	Number of conventional metered consumers	2			38931	
ii	Number of consumers with 'smart' meters					
iii	Number of consumers with 'smart prepaid' meters					
iv	Number of consumers with 'AMR' meters	0	15	279	8000	
v	Number of consumers with 'non-smart prepaid' meters					
vi	Number of unmetered consumers					
vii	Number of total consumers	2	15	279	46931	
b. i.	Number of conventionally metered Distribution Transformers					
ii	Number of DTs with communicable meters		2	352		
iii	Number of unmetered DTs					
iv	Number of total Transformers		2	352	0	
c. i.	Number of metered feeders					
ii	Number of feeders with communicable meters	2	66	1150	2801	
iii	Number of unmetered feeders					
iv	Number of total feeders	2	66	1150	2801	
d.	Line length (ct km)		1694			
e.	Length of Aerial Bunched Cables		84			
f.	Length of Underground Cables		678.352			

3	Voltage level	Particulars	MU	Reference	Remarks (Source of data)
i	66kV and above	Long-Term Conventional Medium Conventional Short Term Conventional Banking Long-Term Renewable energy Medium and Short-Term RE Captive, open access input	667 18.67 0.95	Includes input energy for franchisees	Includes power from bilateral/ PX/ DEEP Any power wheeled for any purchase other than sale to DISCOM. Does not include input for franchisee.
		Sale of surplus power Quantum of inter-state transmission loss Power procured from inter-state sources Power at state transmission boundary	686 686	As confirmed by SLDC, RLDC etc Based on data from Form 5	
ii	33kV	Long-Term 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 Power procured from intra-state sources Input in DISCOM wires network	0 0 686		
iii		Renewable Energy Procurement			
iv	33 kV	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 Renewable Energy Procurement Sales Migration Input			
vii		Energy Embedded within DISCOM wires network	0		
viii		Total Energy Available/ Input	686		

4	Voltage level	Energy Sales Particulars	MU	Reference
i	LT Level	DISCOM' consumers	56	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	56	
ii	11 KV Level	Quantum of LT level losses	4	
		Energy input at LT level	59.867	Balancing loss-~ 7.03%
		DISCOM' consumers	59	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	59	
		Quantum of Losses at 11 kv	1	
		Energy input at 11 KV level	60.010	Theoretical loss-~2.2%
iv	> 33 KV	DISCOM' consumers	452	15 -in Assoc. Company
		Demand from open access, captive		Include sales to consumers in franchisee areas, unmetered consumers
		Embedded generation at 33 kv or below level		Non DISCOM's sales
		Sales at 33 KV level	452	This is DISCOM and OA demand met via energy generated at same voltage level
v	> 33 KV	Quantum of Losses at 33 kv	8	
		Energy input at 33KV Level	460.183	Theoretical loss- ~1.7%
		DISCOM' consumers	106	Include sales to consumers in franchisee areas, unmetered consumers
		Demand from open access, captive		Non DISCOM's sales
vi	> 33 KV	Cross border sale of energy		
		Sale to other DISCOMs		
		Banking		
		Energy input at > 33KV Level	106.293	Theoretical loss- ~0.7%
		Sales at 66KV and above (EHV)	106	
		Total Energy Requirement	686	
		Total Energy Sales	673	

Energy Accounting Summary

5	DISCOM	Input (in MU)	Sale (in MU)	Loss (in MU)	Loss %
i	LT	59.867	56	3.932	7.03%
ii	11 KV	60.010	59	1.292	2.20%
iii	33 kv	460.183	452	7.692	1.70%
iv	> 33 kv	106.293	106	0.739	0.70%
6	Open Access, Captive	Input (in MU)	Sale (in MU)	Loss (in MU)	
i	LT				
ii	11 KV				
iii	33 kv				
iv	> 33 kv				

Loss Estimation for DISCOM

T&D loss	14
D loss	14
T&D loss (%)	0.019895361
D loss (%)	0.019895361

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

Division Wise Losses

Period from 1st October 2021 to 31st December 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/a 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	Collection Efficiency	
1	Jamshedpur	NA		Residential	36224	0	36224	77%	238.94434	0	238.9443397	33%	55.62091	0	55.6209141	8%	0	23.4047509	26.1829691	111.87%	0.00%		
				Agricultural	0	0	0	0%	0	0	0	0%	16.56185	0	16.56185013	0%	0	0	0	0	0.00%	0.00%	
				Commercial/Industrial-LT	10353	0	10353	22%	63.79895	0	63.79895	9%	686.37	0	686.37	2%	13.67647	2%	10.4376382	11.2245966	107.54%	0.00%	
				Commercial/Industrial-HT	165	0	165	0%	416.67051	0	416.6705138	58%	598.4035	0	598.4035	83%	598.4035	0	1.37479967	1.46935775	104.79%	0.00%	
				Others	485	0	485	1%	1.959898	0	1.959898	0%	2.111395	0	2.111395	0%	2.111395	0	434.237074	457.004328	105.24%	0.00%	
	Sub-total			47227	0	47227	100%	721.3737	0	721.3737015	100%	686.3741	0	686.3741	100%	13.67647	13.67647	105.24%	0.00%				
2				Residential	0	0	0	0%	0	0	0	0%	0	0	0	0%	0	0	0	0.00%	0.00%		
				Agricultural	0	0	0	0%	0	0	0	0	0	0	0%	0	0	0	0	0	0.00%	0.00%	
				Commercial/Industrial-LT	0	0	0	0%	0	0	0	0	0	0	0%	0	0	0	0	0	0.00%	0.00%	
				Commercial/Industrial-HT	0	0	0	0%	0	0	0	0	0	0	0%	0	0	0	0	0	0.00%	0.00%	
				Others	0	0	0	0%	0	0	0	0	0	0	0%	0	0	0	0	0	0	0.00%	0.00%
	Sub-total			0	0	0	100%	0	0	0	100%	0	0	100%	0	0	0	0	0.00%	100%			
3				Residential	0	0	0	0%	0	0	0	0%	0	0	0	0%	0	0	0	0	0.00%	0.00%	
				Agricultural	0	0	0	0%	0	0	0	0	0	0	0%	0	0	0	0	0	0.00%	0.00%	
				Commercial/Industrial-LT	0	0	0	0%	0	0	0	0	0	0	0%	0	0	0	0	0	0	0.00%	0.00%
				Commercial/Industrial-HT	0	0	0	0%	0	0	0	0	0	0	0%	0	0	0	0	0	0	0.00%	0.00%
				Others	0	0	0	0%	0	0	0	0	0	0	0%	0	0	0	0	0	0	0.00%	0.00%
	Sub-total			0	0	0	100%	0	0	0	100%	0	0	100%	0	0	0	0	0.00%	100%			
4				Residential	0	0	0	0%	0	0	0	0%	0	0	0	0%	0	0	0	0	0.00%	0.00%	
				Agricultural	0	0	0	0%	0	0	0	0	0	0%	0	0	0%	0	0	0	0	0.00%	0.00%
				Commercial/Industrial-LT	0	0	0	0%	0	0	0	0	0	0	0%	0	0%	0	0	0	0	0.00%	0.00%
				Commercial/Industrial-HT	0	0	0	0%	0	0	0	0	0	0	0%	0	0%	0	0	0	0	0.00%	0.00%
				Others	0	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%	100%			
5				Residential	0	0	0	0%	0	0	0	0%	0	0	0	0%	0	0	0	0	0.00%	0.00%	
				Agricultural	0	0	0	0%	0	0	0	0	0	0%	0	0	0%	0	0	0	0	0.00%	0.00%
				Commercial/Industrial-LT	0	0	0	0%	0	0	0	0	0	0%	0	0	0%	0	0	0	0	0.00%	0.00%
				Commercial/Industrial-HT	0	0	0	0%	0	0	0	0	0	0%	0	0	0%	0	0	0	0	0.00%	0.00%
				Others	0	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%	100%			
6				Residential	0	0	0	0%	0	0	0	0%	0	0	0	0%	0	0	0	0	0.00%	0.00%	
				Agricultural	0	0	0	0%	0	0	0	0	0	0%	0	0	0%	0	0	0	0	0.00%	0.00%
				Commercial/Industrial-LT	0	0	0	0%	0	0	0	0	0	0%	0	0	0%	0	0	0	0	0.00%	0.00%
				Commercial/Industrial-HT	0	0	0	0%	0	0	0	0	0	0%	0	0	0%	0	0	0	0	0.00%	0.00%
				Others	0	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%	100%			

