



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

PBD/JSR/ 12 /2022  
Date: 07 /01/2022

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-2 FY22 (i.e. July-21 to September-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-2 FY22 (i.e. July-21 to September-21).

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 India  
Tel 91 22 66658282 Fax 91 22 66657724  
Corporate Identity Number L27100MH1907PLC000260 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	<b>DISCOM's Contact details &amp; Address</b>			
i	City/Town/Village	Northern Town, Bistupur Jamshedpur Jharkhand 831001		
ii	District	East Singhbhum		
iii	State	Jharkhand	Pin	831001
iv	Telephone		Fax	
4	<b>Registered Office</b>			
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	<b>Nodal Officer Details*</b>			
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	<b>Energy Manager Details*</b>			
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	<a href="mailto:prakumar@tatasteel.com">prakumar@tatasteel.com</a>
7	<b>Period of Information</b>			
	Year of (FY) information including Date and Month (Start & End)	1st July, 2021- 30th September, 2021		



**Performance Summary of Electricity Distribution Companies**

<b>1</b>	Period of Information Year of (FY) information including Date and Month (Start & End)	1st July, 2021- 30th September, 2021
<b>2</b>	<b>Technical Details</b>	
<b>(a)</b>	<b>Energy Input Details</b>	
(i)	Input Energy Purchase (From Generation Source)	Million kwh 699.04
(ii)	Net input energy (at DISCOM Periphery after adjusting the transmission losses and energy traded)	Million kwh 699.04
(iii)	Total Energy billed (is the Net energy billed, adjusted for energy traded))	Million kwh 683.33
<b>(b)</b>	Transmission and Distribution (T&D) loss Details	Million kwh 15.70 % 2.25
<b>(c)</b>	Collection Efficiency	% 100% (99.89%)
	Aggregate Technical & Commercial Loss	% 2% (2.35%)

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]*

Signature:-  
Name of Energy Manager\*: Mr. Pradeep Kumar  
Registration Number:

Name of Authorised Signatory  
Name of the DISCOM: Tata Steel Limited.  
Full Address:- Bistapur, Jamshedpur, Jharkhand  
831005



Seal

**Form-Details of Input Infrastructure**

1	Parameters	Total	Covered during in audit	Verified by Auditor in Sample Check	Remarks (Source of data)
	<b>Total</b>				
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	47185	47185		4718 Sample verified frm SAP
	<b>Parameters</b>	<b>66kV and above</b>	<b>33kV</b>	<b>11/22kV / 6-6.6kV</b>	<b>LT</b>
2	Number of conventional metered consumers	2			38889
a. i.	Number of consumers with 'smart' meters				
ii	Number of consumers with 'smart prepaid' meters				
iii	Number of consumers with 'AMR' meters	0	15	279	8000
iv	Number of consumers with 'non-smart prepaid' meters				
v	Number of unmetered consumers				
vi	<b>Number of total consumers</b>	2	15	279	46889
b.i.	Number of conventionally metered Distribution Transformers				
ii	Number of DTs with communicable meters		2	352	
iii	Number of unmetered DTs		2	352	0
iv	<b>Number of total Transformers</b>				
c.i.	Number of metered feeders	2	66	1150	2801
ii	Number of feeders with communicable meters				
iii	Number of unmetered feeders				
iv	<b>Number of total feeders</b>	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	688		
		Medium Conventional			
		Short Term Conventional	1.52		Includes input energy for franchisees
i	66kV and above	Banking			
		Long-Term Renewable energy			
		Medium and Short-Term RE	9.03		Includes power from bilateral/ PX/ DEEP
i	66kV and above	Captive, open access input			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			As confirmed by SLDC, RLDC etc
ii	33kV	<b>Power procured from inter-state sources</b>	699		Based on data from Form 5
		<b>Power at state transmission boundary</b>	699		
		Long-Term Conventional			
ii	33kV	Medium Conventional			
		Short-Term Conventional			
		Banking			
ii	33kV	Long-Term Renewable energy			
		Medium and Short-Term RE			
		Captive, open access input			
iii	33kV	Sale of surplus power			
		Quantum of intra-state transmission loss	0		
		<b>Power procured from intra-state sources</b>	0		
iv	33kV	<b>Input in DISCOM wires network</b>	699		
		Renewable Energy Procurement			
		Small capacity conventional/ biomass/ hydro plants			
v	11kV	Procurement			
		Captive, open access input			
		Renewable Energy Procurement			
vi	LT	Small capacity conventional/ biomass/ hydro plants			
		Procurement			
		Sales Migration Input			
vii	LT	Renewable Energy Procurement			
		Sales Migration input			
		<b>Energy Embedded within DISCOM wires network</b>	0		
viii		<b>Total Energy Available/ Input</b>	699		

4	Voltage level	Energy Sales Particulars	MU	Reference
i	LT Level	DISCOM* consumers	75	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	75	
ii	11 kV level	Quantum of LT level losses	6	
		Energy input at LT level	81,144	Balancing loss—8%
		DISCOM* consumers	65	6.6 kv Sales (Assu Coms*)
		Demand from open access, captive		
iii	33 kV level	Embedded generation at 11 kV level used		
		Sales at 11 kV level	65	
		Quantum of Losses at 11 kV	1	
		Energy input at 11 kV level	66,284	Theoretical loss—2.2% (
iv	> 33 kV	DISCOM* consumers	454	15-in Assoc. Company
		Demand from open access, captive		
		Embedded generation at 33 kV or below level		
		Sales at 33 kV level	454	
		Quantum of Losses at 33 kV	8	
		Energy input at 33kV Level	461,255	Theoretical loss—1.7% (
		DISCOM* consumers	90	
		Demand from open access, captive		
	> 33 kV	Cross border sale of energy		
		Sale to other DISCOMs		
		Banking		
		Energy input at > 33kV Level	90,427	Theoretical loss—0.7%
		Sales at 66kV and above (EHV)	90	
		Total Energy Requirement	689	
		Total Energy Sales	683	

Energy Accounting Summary

5	DISCOM	Input (In MU)	Sale (In MU)	Loss (In MU)	Loss %
i	LT	81,144	75	6,011	8%
ii	11 kV	66,284	65	1,427	2.20%
iii	33 kV	461,255	454	7,710	1.70%
iv	> 33 kV	90,427	90	0,629	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	16
D loss	16
T&D loss (%)	0.022566333
D loss (%)	0.022566333



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

Division Wise Losses

Period From July-21 To Sept-21

S.No.	Name of circle	Circle code	Name of Division	Consumer category	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 (MW)	Connected Load Un-metered (MW)	Total Connected Load (MW)	Input energy (MU)	Metered energy	Unmetered/a assessment energy	Total energy consumption	% of energy consumption		T&D loss (MU)	T&D loss (%)	Billed Amount in Rs. Crore	Collected Amount in Rs. Crore
1	Jamshedpur	NA		Residential	35917	0	35917	76%	236.90807	0	236.90807/36	33%	78.8364	0	78.83639795	12%	0	32.5893817	33.0517331	101.42%	
				Agricultural	0	0	0	0%	0	0	0	0%	0	0	0	0	0%	0	0	0.00%	
				Commercial/Industrial-LT	10607	0	10607	22%	64.77995	0	64.77995	699.04	17.58849	0	17.588496	3%	0	11.3459481	10.9691439	96.68%	
				Commercial/Industrial-HT	161	0	161	0%	414.18455	0	414.18455	584.6445	584.6445	0	584.6445092	86%	0	332.527687	332.027792	99.85%	
				Others	500	0	500	1%	2.143898	0	2.143898	699.0356	2.264715	0	2.2647148	0%	0	1.1215225	1.1199455	99.89%	
	<b>Sub-total</b>				<b>47185</b>	<b>0</b>	<b>47185</b>	<b>100%</b>	<b>718.01647</b>	<b>0</b>	<b>718.016473</b>	<b>100%</b>	<b>683.3341079</b>	<b>100%</b>	<b>15.70153</b>	<b>377.584169</b>	<b>377.168615</b>	<b>99.89%</b>			
2				Residential	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	0.00%	
				Commercial/Industrial-LT	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	0.00%	
				Others	0	0	0	0%	0	0	0%	0	0	0	0	0	0%	0	0	0.00%	
	<b>Sub-total</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>			
3				Residential	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	0.00%	
				Commercial/Industrial-LT	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	0.00%	
				Others	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
	<b>Sub-total</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>			
4				Residential	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	0.00%
				Commercial/Industrial-LT	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	0.00%
				Others	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
	<b>Sub-total</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>			
5				Residential	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	0.00%
				Commercial/Industrial-LT	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	0.00%
				Others	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
	<b>Sub-total</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>			
6				Residential	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	0.00%
				Commercial/Industrial-LT	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	0.00%
				Others	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
	<b>Sub-total</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>			
7				Residential	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	0.00%
				Commercial/Industrial-LT	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	0.00%
				Others	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
	<b>Sub-total</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>			
8				Residential	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	0.00%
				Commercial/Industrial-LT	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	0.00%
				Others	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
	<b>Sub-total</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>			
9				Residential	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	0.00%
				Commercial/Industrial-LT	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	0.00%
				Others	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
	<b>Sub-total</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>			
10				Residential	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	0.00%
				Commercial/Industrial-LT	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	0.00%
				Others	0	0	0	0%	0	0	0%	0	0	0	0	0%	0	0	0	0	0.00%
	<b>Sub-total</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>	<b>0</b>	<b>0%</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100%</b>			







B.1212	Year (dd)	0.00	0.00
B.1201	Net input energy at furnace (kWh)		
B.1203			

Code	Parameter
1	Process name as per Item B.1201
2	Process name as per Item B.1202
3	Unit name as per Item B.1203
4	Unit name as per Item B.1204
5	Unit name as per Item B.1205
6	Unit name as per Item B.1206
7	Unit name as per Item B.1207
8	Unit name as per Item B.1208
9	Unit name as per Item B.1209
10	Unit name as per Item B.1210
11	Unit name as per Item B.1211
12	Unit name as per Item B.1212
13	Unit name as per Item B.1213
14	Unit name as per Item B.1214
15	Unit name as per Item B.1215
16	Unit name as per Item B.1216
17	Unit name as per Item B.1217
18	Unit name as per Item B.1218
19	Unit name as per Item B.1219
20	Unit name as per Item B.1220

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 results loss to the Central Government or any other person affected, I/we undertake to indemnify such loss.

Authorized Signatory and Seal:  
 Name of Authorized Signatory: **Mr. Satish Kumar**  
 Name of the Unit: **Tata Steel Ltd.**  
 Post Address: **Bistapur, Jamshedpur**  
**Jamshedpur - 831005**

Signature: *[Handwritten Signature]*  
 Name of the Signatory: **Mr. Pradeep Kumar**  
 Registration Number:











